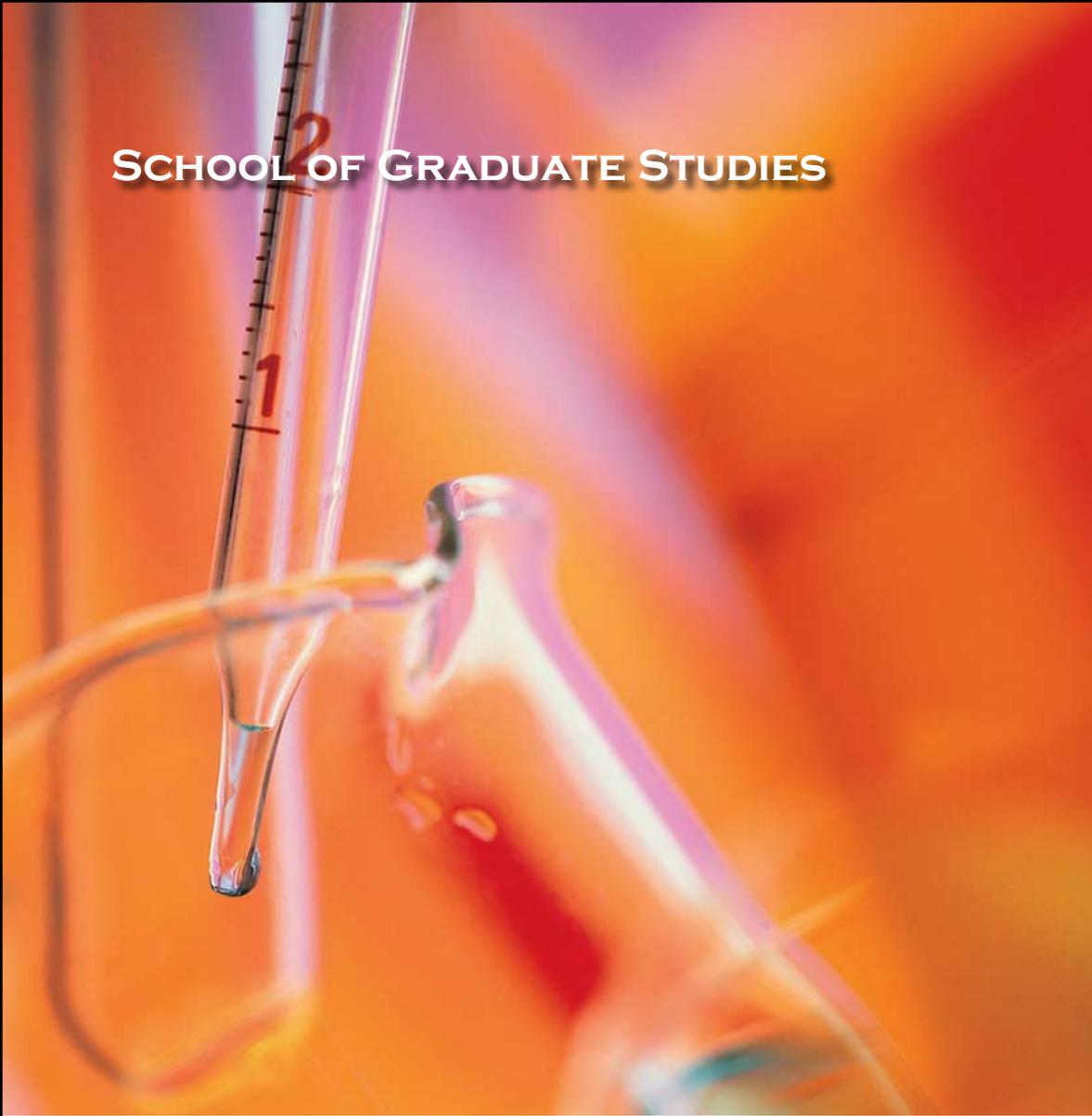


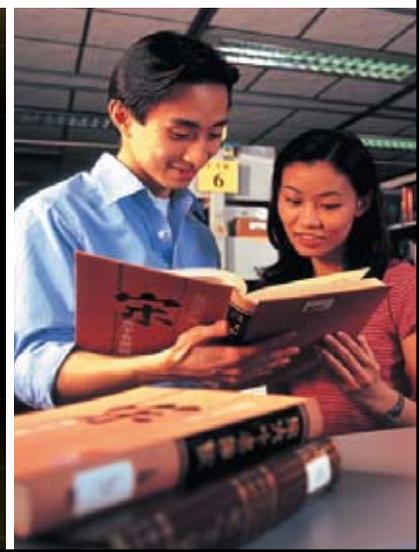
SCHOOL OF GRADUATE STUDIES



RESEARCH DEGREE STUDENTS'

RESEARCH OUTPUT

JULY 2005 – JUNE 2006



School of Graduate Studies
5/F Cheng Yick Chi Building
City University of Hong Kong
Tat Chee Avenue, Kowloon
Hong Kong

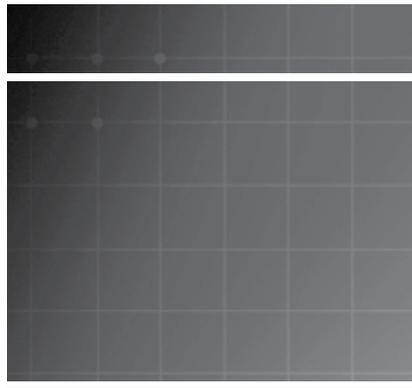
Enquiries

Tel: 2788-9076
Fax: 2788-9940
E-mail: sg@cityu.edu.hk
Website: www.cityu.edu.hk/sgs/

June 2007

CPN: SGS/01/2007/06/001

SCHOOL OF GRADUATE STUDIES



RESEARCH DEGREE STUDENTS'

RESEARCH OUTPUT

JULY 2005 – JUNE 2006



CONTENTS

v	Foreword
vi	Research Output Summary Tables
	Section A: Publications of PhD Students
	Faculty of Business
1	Department of Accountancy
1	Department of Economics and Finance
1	Department of Information Systems
5	Department of Management Sciences
5	Department of Marketing
	Faculty of Humanities and Social Sciences
7	Department of Applied Social Studies
7	Department of Chinese, Translation and Linguistics
10	Department of English and Communication
12	Department of Public and Social Administration
	Faculty of Science and Engineering
13	Department of Biology and Chemistry
26	Department of Building and Construction
33	Department of Computer Science
40	Department of Electronic Engineering
59	Department of Manufacturing Engineering & Engineering Management
63	Department of Mathematics
64	Department of Physics and Materials Science
87	School of Creative Media
90	School of Law

Section B: Publications of MPhil Students

Faculty of Business

- 91 Department of Accountancy
- 91 Department of Economics and Finance
- 91 Department of Information Systems
- 93 Department of Management
- 93 Department of Management Sciences

Faculty of Humanities and Social Sciences

- 95 Department of Applied Social Studies
- 95 Department of Chinese, Translation and Linguistics
- 96 Department of Public and Social Administration

Faculty of Science and Engineering

- 97 Department of Biology and Chemistry
- 103 Department of Building and Construction
- 105 Department of Computer Science
- 113 Department of Electronic Engineering
- 122 Department of Manufacturing Engineering & Engineering Management
- 124 Department of Mathematics
- 125 Department of Physics and Materials Science

133 School of Creative Media

134 School of Law

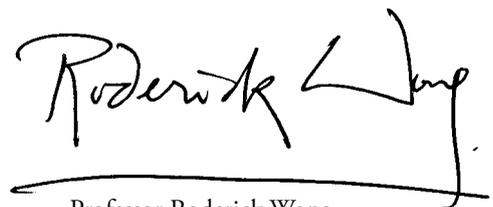
FOREWORD

As an institution of higher education, City University of Hong Kong is committed to providing a wide spectrum of high quality postgraduate programmes, including those undertaken by research. With the support of excellent academics and advanced equipment and facilities, our research students continue to undertake their work successfully and produce a considerable amount of high quality research output, including conference and journal papers. I am delighted to report that a number of our graduate students have received best paper awards in various international conferences.

From July 2005 to June 2006, a total of 1,332 pieces of research output were produced by our PhD and MPhil students. Their research covers diverse areas of study, predominantly applied in nature. This report summarizes the output from their hard work, and is presented to the public to demonstrate the high calibre of our students' research and the enthusiasm that they display towards their studies.

To sustain these achievements, the University will continue to strive to promote postgraduate education that caters for society's needs and provide a supportive and productive research environment.

On behalf of the School of Graduate Studies, I would like to extend my heartiest congratulations to our students on their accomplishments, and wish them all the best for future endeavours in their research careers.



Professor Roderick Wong
Vice-President (Research) /
Dean of Graduate Studies

SUMMARY OF RESEARCH OUTPUT PRODUCED BY PHD STUDENTS 2005-2006

Departments	Number of students who have produced publications	Category of Publications					Total No. of Publications
		Scholarly books, monographs and chapters	Journal publications	Conference papers	Creative and literary works, consulting reports and case studies	Patents, agreements, assignments and companies	
<i>PhD</i>							
Faculty of Business							
Department of Accountancy	2	-	-	-	-	-	2
Department of Economics and Finance	2	-	2	-	-	-	3
Department of Information Systems	15	-	14	15	-	-	33
Department of Management	-	-	-	-	-	-	0
Department of Management Sciences	4	-	3	3	1	-	8
Department of Marketing	3	-	3	2	-	-	6
Faculty of Humanities and Social Sciences							
Department of Applied Social Studies	3	1	-	1	-	-	3
Department of Chinese, Translation and Linguistics	12	2	9	17	-	-	32
Department of English and Communication	10	1	3	5	-	-	17
Department of Public and Social Administration	5	-	3	1	-	-	6
Faculty of Science and Engineering							
Department of Biology and Chemistry	60	-	90	30	-	-	138
Department of Building and Construction	26	-	42	25	7	-	78
Department of Computer Science	21	1	38	25	-	-	72
Department of Electronic Engineering	71	5	105	76	-	-	215
Department of Manufacturing Engineering & Engineering Management	23	-	17	22	-	-	46
Department of Mathematics	9	-	7	2	-	-	12
Department of Physics and Materials Science	44	1	124	84	-	1	223
School of Creative Media							
	8	-	4	10	1	-	24
School of Law							
	4	-	-	1	-	-	4
Sub-total	322	11	391	319	9	1	922

SUMMARY OF RESEARCH OUTPUT PRODUCED BY MPHIL STUDENTS 2005-2006

Departments	Number of students who have produced publications	Category of Publications						Total No. of Publications
		Scholarly books, monographs and chapters	Journal publications	Conference papers	Creative and literary works, consulting reports and case studies	Patents, agreements, assignments and companies	All other outputs	
<i>MPhil</i>								
Faculty of Business								
Department of Accountancy	1	-	-	-	-	-	1	
Department of Economics and Finance	2	-	-	-	-	-	2	
Department of Information Systems	9	-	4	4	-	-	12	
Department of Management	2	-	-	-	-	-	2	
Department of Management Sciences	7	-	-	5	-	-	9	
Department of Marketing	-	-	-	-	-	-	0	
Faculty of Humanities and Social Sciences								
Department of Applied Social Studies	3	1	1	-	1	-	5	
Department of Asian and International Studies	-	-	-	-	-	-	0	
Department of Chinese, Translation and Linguistics	5	-	-	4	-	-	7	
Department of English and Communication	-	-	-	-	-	-	0	
Department of Public and Social Administration	1	-	-	-	-	-	1	
Faculty of Science and Engineering								
Department of Biology and Chemistry	39	-	43	12	-	-	63	
Department of Building and Construction	11	-	7	6	1	-	16	
Department of Computer Science	38	-	45	30	-	-	94	
Department of Electronic Engineering	48	1	39	38	-	1	96	
Department of Manufacturing Engineering & Engineering Management	14	-	2	10	-	-	21	
Department of Mathematics	3	-	-	-	-	-	3	
Department of Physics and Materials Science	28	-	43	21	-	-	73	
School of Creative Media	2	-	-	2	-	-	2	
School of Law	2	-	1	1	-	-	3	
Sub-total	215	2	185	133	2	1	410	

SECTION A:

PUBLICATIONS OF PHD STUDENTS

FACULTY OF BUSINESS

DEPARTMENT OF ACCOUNTANCY

All other outputs

- BLISS Mark** BLISS, M, Operational Flexibility and Earnings Management: Some Evidence of the Benefits of Breadth and the Costs of Depth in Multinational Corporations, PhD Thesis, Department of Accountancy, City University of Hong Kong, Hong Kong, PRC, 8 June 2006.
- FUNG Yu Kit Simon** FUNG, Y K, Evidence of Audit Quality Differences Among Big Five Auditors: An Empirical Study, PhD Thesis, Department of Accountancy, City University of Hong Kong, Hong Kong, PRC, 25 October 2005.

ACCOUNTANCY

DEPARTMENT OF ECONOMICS AND FINANCE

Journal publications

- CAI Jinghan** CAI, J, LI, Y and QI, Y, “The Day-of-the-Week Effect: New Evidence from the Chinese Stock Market”, *The Chinese Economy*, 39(2), March-April 2006, pp 71-88.
- QI Yuehua** CAI, J, LI, Y and QI, Y, “The Day-of-the-Week Effect: New Evidence from the Chinese Stock Market”, *The Chinese Economy*, 39(2), March-April 2006, pp 71-88.

All other outputs

- CAI Jinghan** CAI, J, Two Essays on the Study of Capital Structure in Chinese Stock Market, PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.

ECONOMICS AND FINANCE

DEPARTMENT OF INFORMATION SYSTEMS

Journal publications

- CHEUNG Christy Mei Kwan** CHEUNG, C M K and LEE, M K O, “Understanding Consumer Trust in Internet Shopping: A Multidisciplinary Approach”, *Journal of the American Society for Information Science and Technology*, 57(4), February 2006, pp 479-492.

INFORMATION SYSTEMS

- CHEUNG, C M K, CHAN, G W W and LIMAYEM, M, "A Critical Review of Online Consumer Behaviour", *Journal of Electronic Commerce in Organizations*, 3(4), October-December 2005, pp 1-19.
- LEE, M K O, CHEUNG, C M K and CHEN, Z H, "Acceptance of Internet-based Learning Medium: The Role of Extrinsic and Intrinsic Motivation", *Information and Management*, 42(8), December 2005, pp 1095-1104.
- LEE, M K O, CHEUNG, C M K, LIM, K and SIA, C L, "Understanding Customer Knowledge Sharing in Web-based Discussion Boards: An Exploratory Study", *Internet Research: Electronic Networking Applications and Policy*, 16(3), 2006, pp 289-303.
- CHEUNG Siu King** WAGNER, J C, CHEUNG, S K, IP, R and BÖTTCHER, S, "Building Semantic Webs for e-government with Wiki Technology", *Electronic Government*, 3(1), 2006, pp 36-55.
- IP Rachael Kwai-fun** WAGNER, J C, CHEUNG, S K, IP, R and BÖTTCHER, S, "Building Semantic Webs for e-government with Wiki Technology", *Electronic Government*, 3(1), 2006, pp 36-55.
- LIU Xiaoyan** LIU, X and WANG, H Q, "A Discretization Algorithm Based on a Heterogeneity Criterion", *IEEE Transactions on Knowledge and Data Engineering*, 17(9), September 2005, pp 1166-1173.
- SHEN Kathy Ning** KHALIFA, M and SHEN, K N, "Effects of Knowledge Representation on Knowledge Acquisition and Problem Solving", *Electronic Journal of Knowledge Management*, 4(2), April 2006, published on web, <http://www.ejkm.com/volume-4/v4-i2/v4-i2-art7.htm>.
- SUN Yonghong** WANG, J, SUN, Y H, FAN, Z P and LIU, Y, "A Collaborative E-Learning System Based on Multi-Agent", *Lecture Notes in Computer Science*, Vol 3828, December 2005, pp 455-463.
- FAN, Z P, FENG, Y, SUN, Y H, FENG, B and YOU, T H, "A Framework on Compound Knowledge Push System Oriented to Organizational Employees", *Lecture Notes in Computer Science*, Vol 3828, December 2005, pp 622-630.
- WANG Minhong** WANG, M H and WANG, H Q, "From Process Logic to Business Logic – A Cognitive Approach to Business Process Management", *Information and Management*, 43(2), March 2006, pp 179-193.
- WANG, M H, WANG, H Q and XU, D M, "The Design of Intelligent Workflow Monitoring with Agent Technology", *Knowledge-Based Systems*, 18(6), October 2005, pp 257-266.
- XU, D M, WANG, H Q and WANG, M H, "A Conceptual Model of Personalized Virtual Learning Environments", *Expert Systems with Applications*, 29(3), October 2005, pp 525-534.
- ZHU Yan** ZHU, Y, LI, D Q and FENG, G, "H-∞ Controller Synthesis of Uncertain Piecewise Continuous-time Linear Systems", *IEE Proceedings - Control Theory and Applications*, 152(2), September 2005, pp 513-519.

- CHEUNG Christy Mei Kwan** CHEUNG, C M K and LEE, M K O, "Consumer Satisfaction with Internet Shopping: A Research Framework and Propositions for Future Research", *Proceedings of the International Conference on Electronic Commerce*, Xian, PRC, 15-17 August 2005, pp 327-334.
- LEE, M K O, CHEUNG, C M K, SIA, C L and LIM, K, "How Positive Informational Social Influence Affects Consumers' Decision of Internet Shopping", *Proceedings of the 39th Annual Hawaii International Conference on System Sciences (HICSS-39)*, Hawaii, USA, 4-7 January 2006, published in CD Rom.
- CHEUNG, C M K and LEE, M K O, "Positive-Negative Asymmetry of Disconfirmations on User Satisfaction Judgment", IS-Core 2005, Pre-ICIS Workshop, Las Vegas, USA, 11 December 2005.
- CHEUNG, C M K and LIMAYEM, M, "The Role of Habit in IS Continuance: Examining the Evolving Relationship between Intention and Usage", *Proceedings of the International Conference on Information Systems (ICIS 2005)*, Las Vegas, USA, 11-14 December 2005, pp 471-482.
- CHEUNG, C M K and LIMAYEM, M, "Understanding Continuance of Advanced Internet-based Learning Technologies: The Role of Satisfaction, Prior Behavior, and Habit", *Proceedings of the 9th Pacific Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 1323-1332.
- DU Helen Songhua** DU, H S and WAGNER, J C, "Success in the "Blogosphere: Exploring the Role of Technology", *Proceedings of the 9th Pacific Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 1255-1266.
- HAO Jin-xing** HAO, J X and KWOK, R C W, "Incorporating Information Quality Management into EAI Processes", *Proceedings of the 11th Americas Conference on Information Systems (AMCIS 2005)*, Omaha, Nebraska, USA, 11-14 August 2005, pp 2069-2078.
- IP Rachael Kwai-fun** IP, R, "An Exploratory Study on How Weblog Technologies Fit Virtual Community Members' Social Needs", *Proceedings of the 11th Americas Conference on Information Systems (AMCIS 2005)*, Nebraska, USA, 11-14 August 2005, pp 3555-3560.
- IP, R, "The Impact of Social Software on Organizations – A Preliminary Study on Education", *Organizations and Society in Information Systems Workshop (OASIS 2005)*, Las Vegas, USA, 11 December 2005.
- IP, R and WAGNER, J C, "An Exploratory Study on the Progress of Social Computing and Its Potential Impact on Organizational Computing", *Proceedings of the 9th Pacific Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 220-233.

- LEE Daniel One Ki** LEE, D O K and LIM, K, “Redefining Organizational Information Technology-Based Capabilities with an Integrative Framework for Multiple Levels of Analysis”, *Proceedings of the 9th Pacific Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 1132-1145.
- WONG, S W M, LEE, D O K and LIM, K, “Managing Non-Work Related Computing within an Organization: The Effect of Two Disciplinary Approaches on Employees’ Commitment to Change”, *Proceedings of the 9th Pacific Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 441-454.
- LEUNG Sik Ka Felix** LEUNG, S K and BOLLOJU, N, “Object-Oriented Analysis using Patterns: A Review and Research Opportunities”, *Proceedings of the 9th Pacific-Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 1463-1469.
- LIU Xiaoyan** LIU, X, WANG, H Q and XU, D M, “The Application of Adaptive Partitioned Random Search in Feature Selection Problem”, *Proceedings of the 1st International Conference on Advanced Data Mining and Applications (ADMA 2005)*, Wuhan, PRC, 22-24 July 2005, pp 307-314.
- SHEN Kathy Ning** KHALIFA, M and SHEN, K N, “Effects of Knowledge Representation on Knowledge Acquisition and Problem Solving”, ”, *Proceedings of the 2nd International Conference on Intellectual Capital, Knowledge Management and Organizational Learning (ICICKM 2005)*, Dubai, United Arab Emirates, 21-22 November 2005, pp 277-282.
- All other outputs**
- LEE Fion Sau Ling** LEE, F S L, An Exploratory Study on Message Generation in Virtual Communities and the Influence of Trust, PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 19 December 2005.
- LIU Ou** LIU, O, An Ontology-based Approach to Management of Model Knowledge, PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 10 February 2006.
- SHEN Kathy Ning** SHEN, K N, System Design Effects on Online Impulse Buying, MPhil Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 5 July 2005.
- SHROFF Ronnie Homi** SHROFF, R H, Assessing the Effects of Online and Face-to-Face Discussions on Factors Supporting Individual Student Intrinsic Motivation, PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 15 March 2006.

DEPARTMENT OF MANAGEMENT SCIENCES

Journal publications

LI Jing An

LIU, K, LI, J A, WU, Y and LAI, K K, “Analysis of Monitoring and Limiting of Commercial Cheating: A Newsvendor Model”, *Journal of the Operational Research Society*, 56(7), Oxford, United Kingdom, July 2005, pp 844-854.

ZHOU Ligang

LAI, K K, YU, L, ZHOU, L and WANG, S Y, “Credit Risk Evaluation with Least Square Support Vector Machine”, *Lecture Notes in Artificial Intelligence*, Vol 4062, PRC, June 2006, pp 490-495.

LAI, K K, YU, L, ZHOU, L and WANG, S Y, “Self-organizing-map-based Metamodeling for Massive Text Data Exploration”, *Lecture Notes in Computer Science*, Vol 3971, PRC, 28 May 2006 - 1 June 2006, pp 1261-1266.

Conference papers

LU Xiaoling

LO, H P, LI, M Y and LU, X L, “A Use of the Prospect Theory in the Study of Travelers’ Choice - Evidence from the West Rail Experience”, *Proceedings of the 10th Conference of Hong Kong Society for Transportation Studies*, Hong Kong, PRC, December 2005, pp 379-389.

LU, X L and LO, H P, “Forecasting the Number of Audience of TV Programs: A Bayesian Approach”, *Abstract for the 26th International Symposium on Forecasting*, Santander, Spain, 11-14 June 2006, p 99.

LU, X L and LO, H P, “Modeling Diffusion Patterns of TV Programs”, *Abstract for the INFORMS International Conference*, Hong Kong, PRC, 25-28 June 2006, p 117.

Creative and literary works, consulting reports and case studies

LU Xiaoling

LU, X L and LO, H P, *A Study on the Viewing Patterns of the Television Audience*, Television Broadcasts Ltd., Hong Kong, PRC, December 2005.

All other outputs

LANG Chun Mei

LANG, C M, *Decision Models for Airline Passenger and Cargo Network Alliances*, PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 8 February 2006.

DEPARTMENT OF MARKETING

Journal publications

CHOW Cheris Wing Chi

GUO, G Q, CHEUNG, F S L, LEUNG, W F and CHOW, C W C, “Attitudes towards Internet Advertising: A Cross-cultural Study”, *International Journal of Internet Marketing and Advertising*, 3(2), 2006, pp 158-176.

CHOW, C W C and LUK, C L, "Effects of Comparative Advertising in High- and Low-cognitive Elaboration Conditions", *Journal of Advertising*, 35(2), Summer 2006, pp 55-67.

WAN, W W N, LUK, C L and CHOW, C W C, "Customers' Adoption of Banking Channels in Hong Kong", *International Journal of Bank Marketing*, 23(3), 2005, pp 255-272.

Conference papers

CHENG Chung Ling Simone CHENG, C L S and YAU, O H M, "Conflict Resolution Strategies among Hong Kong, Chinese Women: Conceptualisation and Measurement", *Proceedings of the 11th Asia Pacific Management Conference*, Taiwan, 18-20 November 2005, pp 2A-3-1 - 2A-3-6.

KWONG Kenneth Ka Kei KWONG, K K K, YAU, O H M and LEUNG, J W K, "Conceptualisation of a Service Delivery Model in a Restaurant Context", *Proceedings of the 11th Asia Pacific Management Conference*, Taiwan, 18-20 November 2005, (Addendum).

All other outputs

KWONG Kenneth Ka Kei KWONG, K K K, Effects of Service Delivery on Customer Delight: An Experimental Approach in a Restaurant Chain, PhD Thesis, Department of Marketing, City University of Hong Kong, Hong Kong, PRC, 8 February 2006.

FACULTY OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF APPLIED SOCIAL STUDIES

Scholarly books, monographs and chapters

- LU Yunfeng** LANG, G S and LU, Y F, “Assimilation of ‘New Age’ Beliefs into Cults and New Religions in East and Southeast Asia”, *New Age*, M Moravcikova (ed), Institute for Church-State Relations, Bratislava, Slovakia, November 2005, pp 306-322.

Conference papers

- JIANG Guoping** JIANG, G and LO, T W, “Hong Kong and Mainland Chinese Youth’s Perceptions of Corruption: A Preliminary Qualitative Study”, 7th International Conference on Asian Youth Issues, International Sociological Association Research Committee 34 – Sociology of Youth, Macau, PRC, 5-9 December 2005.

All other outputs

- LIU Chunrong** LIU, C R, *The Political Construction of Community Power: A Comparative Case Study of Neighborhood Governance Formations in Shanghai (1996-2003)*, PhD Thesis, Department of Applied Social Studies, City University of Hong Kong, Hong Kong, PRC, 7 September 2005.

DEPARTMENT OF CHINESE, TRANSLATION AND LINGUISTICS

Scholarly books, monographs and chapters

- CHAN Hok Yin** CHAN, H Y, “〈唐君毅對“五四”的詮釋〉”, 《唐學論衡——唐君毅先生的生命與學問》(上冊), 1st edition, 何仁富 (ed), 中國北京:北京文史出版社, Beijing, PRC, November 2005, pp 497-517.
- CHAN, H Y, “〈唐君毅對孔子“仁學”的詮釋〉”, 《唐學論衡——唐君毅先生的生命與學問》(下冊), 1st edition, 何仁富 (ed), 北京:文史出版社, Beijing, PRC, November 2005, pp 98-125.

Journal publications

- CHAN Hok Yin** CHAN, H Y, “〈儒家思想的失落及其重建的意義〉”, 毅圃, No 40, 香港弘毅文化教育學會, Hong Kong, PRC, October 2005, pp 7-14.
- CUI Yuzhen** CUI, Y, HU, Q, PAN, Hai-Hua and HU, J H, “Zero Anaphora Resolution in Chinese Discourse”, *Lecture Notes in Computer Science*, Vol 3878, Springer-Verlag Berlin Heidelberg, 19-25 February 2006, pp 245-248, (Computational Linguistics and Intelligent Text Processing, Proceedings of the 7th International Conference, CICLing 2006, Mexico City, Mexico, February 2006).

HAN Jingquan

PAN, Hai-Hua and HAN, J Q, "Xianxing Fei Binge Dongci Jiegou de Jufa Yanjiu (A Syntactic Study on the Surface Unaccusative Verb Construction)", *Yuyan Yanjiu 語言研究*, 25(3), Huazhong Keji Daxue (Huazhong University of Sci. & Tech.), Wuhan, PRC, September 2005, pp 1-13, <http://www2.hust.edu.cn/yyyy>.

PAN, Hai-Hua and HAN, J Q, "The Syntactic Status of 'there' and Related Theoretical Issues", *Contemporary Linguistics 當代語言學*, 8(1), Foreign Languages Teaching and Research Press, Beijing, PRC, March 2006, pp 17-35, <http://www.ddyyx.com>.

HU Qinan

CUI, Y, HU, Q, PAN, Hai-Hua and HU, J H, "Zero Anaphora Resolution in Chinese Discourse", *Lecture Notes in Computer Science*, Vol 3878, Springer-Verlag Berlin Heidelberg, 19-25 February 2006, pp 245-248, (Computational Linguistics and Intelligent Text Processing, Proceedings of the 7th International Conference, CICLing 2006, Mexico City, Mexico, February 2006).

LIU Xiaoyue

KIT, C Y, LIU, X Y and WEBSTER, J J, "Abbreviation Recognition with Maxent Model", *Lecture Notes in Computer Science*, Vol 3878, February 2006, pp 117-120, (A Gelbukh (ed), Computational Linguistics and Intelligent Text Processing: CICLing 2006).

KIT, C Y and LIU, X Y, "Period Disambiguation with Maxent Model", *Lecture Notes in Artificial Intelligence*, Vol 3651, October 2005, pp 223-232, (R Dale, K F Wong, J Su & O Y Kwong (eds), Natural Language Processing - IJCNLP 2005).

WANG Xiaomei

WANG, X M, "Language Maintenance and Language Shift of the Chinese in Banting, Selangor, Malaysia", *The Journal of Chinese Sociolinguistics 中國社會語言學*, No 1, 2005, pp 117-131.

WANG, X M, "Mandarin Spread and Mass Media: Focusing on Muar and Batu Pahat in the State of Johor, Malaysia", *The Journal of Chinese Sociolinguistics 中國社會語言學*, No 2, 2005, pp 185-195.

Conference papers

CHAN Hok Yin

CHAN, H Y, "〈唐君毅對孔子“仁學”的詮釋〉", 《第一屆儒家倫理與東亞地區公民道德論壇》, 國際儒學聯合會、香港中文大學新亞書院、北京東方道德研究所聯合舉辦, 四川, PRC, 18-22 November 2005.

CHEUNG Yuk Man

CHEUNG, Y M, "The F0 Patterns of Tones in Hakka Chinese", *Second International Symposium on Tonal Aspects of Languages*, Universite de La Rochelle, La Rochelle, France, 27-29 April 2006, pp 49-52.

CHEUNG, Y M, "The Formant Analysis of the Diphthongs in Meixian Hakka", 14th Annual Conference of the International Association of Chinese Linguistics and the 10th International Symposium on Chinese Languages and Linguistics, Academic Sinica, Taiwan, Taipei, Taiwan, 25-29 May 2006, <http://iacl-iscl.ling.sinica.edu.tw/>.

CHEUNG, Y M, "A Phonetic Study of Tones in Meixian Hakka", 38th International Conference on Sino-Tibetan Language and Linguistics, Xiamen University, Xiamen, PRC, 28-31 October 2005, p 23.

CHEUNG, Y M, “The Aerodynamic Characteristics of Sentences in Hong Kong Cantonese”, *10th International Conference on Yue Dialects*, The Chinese University of Hong Kong, Hong Kong, PRC, 12-14 December 2005, pp 1-9.

CHOW Ian Castor

CHOW, I C and LAM, M M K, “A Discourse Analysis of ‘Daxue’ in Systemic Functional Perspective”, Annual Research Forum 2005, Linguistic Society of Hong Kong, Hong Kong, PRC, 10-11 December 2005.

CHOW, I C, “Automating the Import of Lexical Data into a Relational Network”, 32nd LACUS Forum, Linguistic Association of Canada and the United States, USA, 2-6 August 2005.

WEBSTER, J J and CHOW, I C, “Mapping WordNet to a Relational Network”, *Proceedings of the 2005 IEEE International Conference on Natural Language Processing and Knowledge Engineering (IEEE NLP-KE 2005)*, PRC, 30 October 2005 - 1 November 2005, pp 718-722.

HAN Jingquan

PAN, Hai-Hua and HAN, J Q, “The Mechanism of Derivating Retained Objects Constructions in Chinese”, International Symposium on Forms and Functions of Chinese, PLA Foreign Language College, Zhenzhou, PRC, 21-23 April 2006.

LIU Xiaoyue

LIU, W Y, HUANG, G, LIU, X Y, DENG, X and ZHANG, M, “Phishing Webpage Detection”, *Proceedings of the 8th International Conference on Document Analysis and Recognition (ICDAR 2005)*, Seoul, South Korea, 29 August 2005 - 1 September 2005, pp 560-564, <http://doi.ieeecomputersociety.org/10.1109/ICDAR.2005.190>.

揭春雨, 劉曉月, 洗景炬 and 衛真道, “從網絡獲取香港法律雙語語料庫”, *自然語言理解與大規模內容計算*, 孫茂松, 陳秀群主編, 清華大學出版社, PRC, July 2005, pp 193-199, (JSCL-2005).

KIT, C Y and LIU, X Y, “An Example-based Chinese Word Segmentation System for CWSB-2”, *4th SIGHAN Workshop on Chinese Language Processing (SIGHAN 4)*, Jeju Island, South Korea, 14-15 October 2005, pp 146-149.

KIT, C Y, LIU, X Y, SIN, K K and WEBSTER, J J, “Harvesting the Bitexts of the Laws of Hong Kong from the Web”, *5th Workshop on Asian Language Resources (ALR-05)*, Jeju Island, South Korea, 14 October 2005, pp 71-78.

WANG Xia

WANG, X, “Semantic Role Labeling in Chinese Using HowNet”, 7th Chinese Lexical Semantics Workshop 第七屆漢語詞彙語意學研討會, Hsinchu, Taiwan, 22-23 May 2006.

WANG Xiaomei

WANG, X M, “Mandarin Spread across National Border: Focus on Singapore-Malaysia Border”, 4th International Conference on Chinese Sociolinguistics (ICCSL4), Guangzhou, PRC, 9-12 December 2005.

WANG, X M, “Loan Words in Malaysian Cantonese”, 10th International Conference on Yue Dialects 第十屆國際粵方言研討會, Hong Kong, PRC, 12-14 December 2005.

WANG, X M, "Language Shift in Three-generation Chinese Families in the State of Johor, Malaysia", 1st Malaysian International Conference on Chinese Linguistics: Exploring Diversity, Variation and Standardization of Language, University of Malaya, Kuala Lumpur, Malaysia, 4-5 March 2006.

All other outputs

AU Ching Pong

AU, C P, Acquisition and Evolution of Phonological Systems, PhD Thesis, Department of Chinese, Translation and Linguistics, City University of Hong Kong, Hong Kong, PRC, 14 November 2005.

HU Fang

HU, F, A Phonetic Study of the Vowels in Ningbo Chinese, PhD Thesis, Department of Chinese, Translation and Linguistics, City University of Hong Kong, Hong Kong, PRC, 13 September 2005.

PENG Gonggun

PENG, G, "An Optimality-theoretic Account of the Retroflex Suffix-triggered Stem Alternation in Mandarin Chinese", 14th Annual Conference of the International Association of Chinese Linguistics in conjunction with the 10th International Symposium on Chinese Languages and Linguistics has been chosen as an outstanding work for IACL funding, International Association of Chinese Linguistics, Taipei, Taiwan, 25 May 2006.

WANG Xiaomei

WANG, X M, "Mandarin Spread across National Border: Focus on Singapore-Malaysia Border", The First Prize of Young Scholar Award, Association of Chinese Sociolinguistics, 4th International Conference on Chinese Sociolinguistics (ICCSL4), Guangzhou, PRC, 9-12 December 2005.

DEPARTMENT OF ENGLISH AND COMMUNICATION

Scholarly books, monographs and chapters

LUNG Jane Wing Yi

BHATIA, V K and LUNG, J W Y, "Corporate Identity and Generic Integrity in Business Discourse", *English for International and Intercultural Business Communication*, J C P Silveira, M F Ruiz-Garrido and I Fortanet-Gomez (eds), Peter Lang, Bern, Switzerland, 2006, pp 265-285.

Journal publications

CAO Dechun

CAO, D C, "解析公司治理模式:跨文化視角Analyzing Corporate Governance Models: A Cross-cultural Perspective", *Economic Survey 經濟經緯*, No 3, 2006, pp 92-95.

CAO, D C, "跨國併購中的跨文化整合Cross-cultural Integration in Mergers and Acquisitions across the Border", *China Mergers and Acquisitions Express 中國併購快訊*, No 14, 15 May 2006, pp 9-13.

YANG Yinjuan YANG, Y J and OU, Y F, "Generation and Belief of Rumor in the Lottery Buying Behavior: A Case Study on Fengqiao Village", *Journal of International Communication 國際新聞界*, Vol 2, 2006, pp 32-35.

Conference papers

CAO Dechun CAO, D C, "Chinese Cultural Traits and Their Implication for Sino-foreign Mergers and Acquisitions", Chinese Culture Heritage and Innovation Forum, Fudan University, Shanghai, PRC, 3-5 August 2005.

JIANG Shujun TONG, J, JIANG, S J and ZHU, J J H, "How Much Can You Trust the Promise? Linking Behavioral Intention to Actual Behavior in Internet Adoption", 58th Annual Conference of World Association for Public Opinion Research, Cannes, France, 15-17 September 2005.

TONG Jingjing TONG, J J, JIANG, S J and ZHU, J J H, "How Much Can You Trust the Promise? Linking Behavioral Intention to Actual Behavior in Internet Adoption", 58th Annual Conference of World Association for Public Opinion Research, Cannes, France, 15-17 September 2005.

TONG, J J, "AIDS through the Eyes of Media: A Comparative Analysis of AIDS Coverage in U.S. and Chinese Newspaper, 2001-2004", World Association for Public Opinion Research (WAPOR) Regional Seminar, Hong Kong, PRC, 8-10 December 2005.

YANG Yinjuan YANG, Y J and LEE, C C, "Distance with the Power and Media Slanting in China: A Bargaining Approach", 56th Annual Conference of the International Communication Association, Dresden, Germany, 19-23 June 2006.

All other outputs

BREMNER Stephen BREMNER, S, The Construction of Workplace Writing: Texts, Contexts and Interaction in an Academic Administration, PhD Thesis, Department of English and Communication, City University of Hong Kong, Hong Kong, PRC, 12 January 2006.

JIANG Shujun JIANG, S J, Media, Community, and Social Harmony, Excellent Paper Award, 2005 Conference of the Communication Association of China, PRC, 2005.

KWAN Becky Siu-chu KWAN, B S C, A Genre Analysis of Literature Reviews in Doctoral Theses, PhD Thesis, Department of English and Communication, City University of Hong Kong, Hong Kong, PRC, 19 August 2005.

LI Yongyan LI, Y Y, Writing for International Publication: The Case of Chinese Doctoral Science Students, PhD Thesis, Department of English and Communication, City University of Hong Kong, Hong Kong, PRC, 25 May 2006.

LUNG Jane Wing Yi LUNG, J W Y, Applied Genre Analysis: Cases in Business and Law, PhD Thesis, Department of English and Communication, City University of Hong Kong, Hong Kong, PRC, 18 August 2005.

- SO Bronia Po-chun** SO, B P C, Analysing Newspaper Genres with a view to Developing a Genre-based Pedagogy for the Teaching of Writing in Hong Kong Schools, PhD Thesis, Department of English and Communication, City University of Hong Kong, Hong Kong, PRC, 19 August 2005.
- TONG Jingjing** TONG, J J, AIDS through the Eyes of Media: A Comparative Analysis of AIDS Coverage in U.S. and Chinese Newspapers, 2001-2004, Chinese Communication Association (CCA), The First Prize of the Chinese Communication Association (CCA) 2005 Student Paper Competition, USA, April 2006.
- ZHOU Yuqiong** ZHOU, Y Q, The Interplay between Chinese Journalists and the Internet: Diffusion, Use, and Effects of the Internet, PhD Thesis, Department of English and Communication, City University of Hong Kong, Hong Kong, PRC, 26 August 2005.

DEPARTMENT OF PUBLIC AND SOCIAL ADMINISTRATION

Journal publications

- OKSANEN Kaisa Maria** OKSANEN, K M, "Rhetoric of Stability and Change: The Hong Kong Political Double Speak", *Asian Affairs*, Vol 27, Larkincil International Ltd - HK, Hong Kong, PRC, April 2006, pp 44-65.
- PANDAY Pranab Kumar** PANDAY P K, "Leadership and Political Culture: An Explanation of its Interrelationships in the Context of Bangladesh", *Pakistan Journal of Social Science*, 3(8), Grace Publication Network, Pakistan, August 2005.
- PANDAY P K, "Human Rights and Good Governance in Bangladesh: A Quest for Measuring the Status of Good Governance at the Stake of Violation of Human Rights in Bangladesh", *Pakistan Journal of Social Science*, 3(9), Grace Publication Network, Pakistan, September 2005.

Conference papers

- DENG Queenie Lijun** DENG, Q L, "Mapping a Third-sector in China: Public-private Partnership in Community Service in Guangzhou", The Conference on Continuing Transformations of Public Administration, City University of Hong Kong, Hong Kong, PRC, 21-22 March 2006.

All other outputs

- JIANG Xiaoyang** JIANG, X Y, Peasant Workers and State Interactions: A Citizenship Perspective, PhD Thesis, Department of Public and Social Administration, City University of Hong Kong, Hong Kong, PRC, 13 April 2006.
- MA Weihong** MA, W H, Property Rights Reform and the Evolution of Entrepreneurs' Social Networks - A Study of Wuxi City, Jiangsu Province, China, PhD Thesis, Department of Public and Social Administration, City University of Hong Kong, Hong Kong, PRC, 1 August 2005.

Journal publications

CHOI Nicola Man Chi

CHOI, N M C, YEUNG, L W Y, SIU, W H L, SO, M K, JACK, R W, HSIEH, D P H, WU, R S S and LAM, P K S, "Relationships between tissue concentrations of paralytic shellfish toxins and antioxidative responses of clams, *Ruditapes philippinarum*", *Marine Pollution Bulletin*, Vol 52, May 2006, pp 572-597.

MAK, C Y, YU, H, CHOI, N M C, SHEN, X, LAM, M H W, MARTIN, M, WU, R S S, WONG, P S, RICHARDSON, B J and LAM, P K S, "Okadaic acid, a causative toxin of diarrhetic shellfish poisoning, in green-lipped mussels *Perna viridis* from Hong Kong fish culture zones: Method development and monitoring", *Marine Pollution Bulletin*, 51(8-12), November 2005, pp 1010-1017.

CHAN, L L, SIT, W H, LAM, P K S, HSIEH, D P H, HODGKISS, I J, LO, S C L, WAN, J M F, HO, A Y T, CHOI, N M C, WANG, D Z and DUDGEON, D, "Identification and characterization of a 'biomarker of toxicity' from the proteome of the paralytic shellfish toxin-producing dinoflagellate *Alexandrium tamarense* (Dinophyceae)", *Proteomics*, Vol 6, January 2006, pp 654-666.

CHUNG Chi Keung

LO, K K W, CHUNG, C K and ZHU, N, "Nucleic Acid Intercalators and Avidin Probes Derived from Luminescent Cyclometalated Iridium(III)-Dipyridoquinoxaline and -Dipyridophenazine Complexes", *Chemistry - A European Journal*, Vol 12, February 2006, pp 1500-1512.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, NG, D C M, ZHU, N and CHEUNG, K K, "Biological Labelling Reagents and Probes Derived from Luminescent Transition Metal Complexes", *Coordination Chemistry Reviews*, Vol 249, July 2005, pp 1434-1450.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M and NG, D C M, "Luminescent Transition Metal Polypyridine Biotin Complexes", *Journal of the Chinese Chemical Society*, Vol 53, February 2006, pp 53-65.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M, LI, C C K, LAU, S Y and NG, D C M, "Luminescent Transition Metal Complex Biotin Conjugates", *Coordination Chemistry Reviews*, Vol 250, February 2006, pp 1724-1736.

FUNG Cheuk Nang

SO, M K, ZHANG, X, GIESY, J P, FUNG, C N, FONG, H W, ZHENG, J S, KRAMER, M J, YOO, H and LAM, P K S, "Organochlorines and dioxin-like compounds in green-lipped mussels *Perna viridis* from Hong Kong mariculture zones", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 677-687.

FUNG, C N, ZHENG, J S, CONNELL, D W, ZHANG, X, WONG, H L, GIESY, J P, FANG, Z and LAM, P K S, "Risks posed by trace organic contaminants in coastal sediments in the Pearl River Delta, China", *Marine Pollution Bulletin*, Vol 50, October 2005, pp 1036-1049.

GAO Qinfeng

GAO, Q F, CHEUNG, K L, CHEUNG, S G and SHIN, P K S, "Effects of nutrient enrichment derived from fish farming activities on macroinvertebrate assemblages in a subtropical region of Hong Kong", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 994-1002.

CHEUNG, S G, GAO, Q F and SHIN, P K S, "Energy maximization by selective feeding on tissues of the venerid clam *Marcia hiantina* in the marine scavenger *Nassarius festivus* (Gastropoda: Nassariidae)", *Marine Biology*, Vol 149, May 2006, pp 247-255.

GUO Chu Ling

GUO, C L, ZHOU, H W, WONG, Y S and TAM, N F Y, "Isolation of PAH-degrading bacteria from mangrove sediments and their biodegradation potential", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 1054-1061.

HE Fang-ting

WANG, J, HE, F T, TZANG, L C H, FONG, W F, XIAO, P, HAN, R and YANG, M, "Differential gene expression profiles in paclitaxel-induced cell cycle arrest and apoptosis in human breast cancer MCF-7 cells", *Acta Pharmaceutica Sinica 藥學學報*, 40(12), December 2005, pp 1099-1104.

HUI Wai Ki

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, NG, D C M, ZHU, N and CHEUNG, K K, "Biological Labelling Reagents and Probes Derived from Luminescent Transition Metal Complexes", *Coordination Chemistry Reviews*, Vol 249, July 2005, pp 1434-1450.

LO, K K W, TSANG, H K, HUI, W K and ZHU, N, "Synthesis, Characterization, Crystal Structure, and Electrochemical, Photophysical, and Protein-Binding Properties of Luminescent Rhenium(I) Diimine Indole Complexes", *Inorganic Chemistry*, Vol 44, August 2005, pp 6100-6110.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M and NG, D C M, "Luminescent Transition Metal Polypyridine Biotin Complexes", *Journal of the Chinese Chemical Society*, Vol 53, February 2006, pp 53-65.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M, LI, C C K, LAU, S Y and NG, D C M, "Luminescent Transition Metal Complex Biotin Conjugates", *Coordination Chemistry Reviews*, Vol 250, February 2006, pp 1724-1736.

HUNG Ling Ho

HUNG, L H, XU, Y, LAM, C W, JEFFERSON, T A, HUNG, S K, YEUNG, L W Y, LAM, M H W, O'TOOLE, D K and LAM, P K S, "An assessment of the risks associated with polychlorinated biphenyls found in the stomach contents of stranded Indo-Pacific Humpback Dolphins (*Sousa chinensis*) and Finless Porpoises (*Neophocaena phocaenoides*) from Hong Kong waters", *Chemosphere*, Vol 63, May 2006, pp 845-852.

- JIANG Sandy Qin Ting** JIANG, S Q T, LEE, T K M, CHEN, K, WONG, H L, ZHENG, J S, GIESY, J P, LO, K K W, YAMASHITA, N and LAM, P K S, "Human health risk assessment of organochlorines associated with fish consumption in a coastal city in China", *Environmental Pollution*, Vol 136, July 2005, pp 155-165.
- SONG, M Y, JIANG, S Q T, XU, Y, LIU, H, LAM, P K S, O'TOOLE, D K, ZHANG, Q, GIESY, J P and JIANG, G, "AhR-active compounds in sediments of the Haihe and Dagu Rivers, China", *Chemosphere*, Vol 63, May 2006, pp 1222-1230.
- SO, M K, YAMASHITA, N, TANIYASU, S, JIANG, S Q T, GIESY, J P, CHEN, K and LAM, P K S, "Health risks in infants associated with exposure to perfluorinated compounds in human breast milk from Zhoushan, China", *Environmental Science & Technology*, Vol 40, May 2006, pp 2924-2929.
- GULKOWSKA, A, JIANG, S Q T, SO, M K, TANIYASU, S, LAM, P K S and YAMASHITA, N, "Persistent perfluorinated acids in seafood collected from two cities of China", *Environmental Science & Technology*, Vol 40, June 2006, pp 3736-3741.
- LAM Chung Wah** HUNG, L H, XU, Y, LAM, C W, JEFFERSON, T A, HUNG, S K, YEUNG, L W Y, LAM, M H W, O'TOOLE, D K and LAM, P K S, "An assessment of the risks associated with polychlorinated biphenyls found in the stomach contents of stranded Indo-Pacific Humpback Dolphins (*Sousa chinensis*) and Finless Porpoises (*Neophocaena phocaenoides*) from Hong Kong waters", *Chemosphere*, Vol 63, May 2006, pp 845-852.
- LAM Ka Ho** LAM, K H, CAI, Z, WAI, H Y, TSANG, V W H, LAM, M H W, CHEUNG, R Y H, YU, H and LAM, P K S, "Identification of a new Irgarol-1051 related s-triazine species in coastal waters", *Environmental Pollution*, Vol 136, July 2005, pp 221-230.
- LAU Shing Yip** LO, K K W, LI, C C K and LAU, S Y, "Luminescent Cyclometallated Iridium(III) Arylbenzothiazole Biotin Complexes", *Organometallics*, Vol 24, September 2005, pp 4594-4601.
- LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M, LI, C C K, LAU, S Y and NG, D C M, "Luminescent Transition Metal Complex Biotin Conjugates", *Coordination Chemistry Reviews*, Vol 250, February 2006, pp 1724-1736.
- LAW Hiu-wan** LAW, H W, WU, R S S, NG, K S, YU, R M K and KONG, R Y C, "Cloning and expression analysis of two distinct HIF-alpha isoforms -- gcHIF-1alpha and gcHIF-4alpha -- from the hypoxia-tolerant grass carp, *Ctenopharyngodon idellus*", *BMC Molecular Biology*, Vol 7, 20 April 2006, p 15.
- LEE Kwok Ying** LEE, K Y, LI P, T, LAU, D T W, YUNG, P P, KONG, R Y C and FONG, W F, "Phylogeny of medicinal *Phyllanthus* species in China based on nuclear ITS and chloroplast *atpB-rbcL* sequences and triplex PCR detection assay analysis", *Planta Medica*, Vol 72, June 2006, pp 721-726.

- LEUNG Clement Chun-man** LEUNG, C C M, JEFFERSON, T A, HUNG, S K, ZHENG, J S, YEUNG, L W Y, RICHARDSON, B J and LAM, P K S, "Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides and polychlorinated biphenyls in tissues of Indo-Pacific humpback dolphins from south China waters", *Marine Pollution Bulletin*, 50(12), December 2005, pp 1713-1744.
- LI Cheuk-wing** YI, R C Q, LI, C W, JI, S and YANG, M, "Microfluidics Technology for Manipulation and Analysis of Biological Cells", *Analytica Chimica Acta*, Vol 560, February 2006, pp 1-23.
- YI, R C Q, ZHANG, Q, LI, C W, YANG, J, ZHAO, J and YANG, M, "Optical and electrochemical detection techniques for cell-based microfluidic systems", *Analytical and Bioanalytical Chemistry*, Vol 384, March 2006, pp 1259-1268.
- LI, C W, YANG, J and YANG, M, "Dose-dependent cell-based assays in V-shaped microfluidic channels", *Lab on a Chip*, Vol 6, June 2006, pp 921-929.
- LI Jie Liang** CHEUNG, H Y, CHEUNG, S H, LI, J L, CHEUNG, C S, LAI, W P, FONG, W F and LEUNG, F M, "Andrographolide isolated from *Andrographis paniculata* induces cell cycle arrest and mitochondrial-mediated apoptosis in human leukemic HL-60 cells", *Planta Medica*, Vol 71, December 2005, pp 1106-1111.
- LIU Wenhua** ZHOU, B S, LIU, W H, SIU, W H L, O'TOOLE, D K, LAM, P K S and WU, R S S, "Exposure of spermatozoa to duroquinone may impair reproduction of the common carp (*Cyprinus carpio*) through oxidative stress", *Aquatic Toxicology*, Vol 77, May 2006, pp 136-142.
- LU Xiaoying** LU, X Y and WU, R S S, "UV induces reactive oxygen species, damages sperm, and impairs fertilization in the sea urchin *Anthrocidaris crassispina*", *Marine Biology*, Vol 148, November 2005, pp 51-57.
- LUO Wen** LUO, W, VRIJMOED, L L P and JONES, E B G, "Screening of marine fungi for lignocellulose-degrading enzyme activities", *Botanica Marina*, Vol 48, September-November 2005, pp 379-386.
- MAK Chris Shuk Kwan** ZHOU, J X J, MAK, C S K, TANNER, P A and FAUCHER, M D, "Spectroscopic properties and configuration interaction assisted crystal field analysis of Nd³⁺ in neat Cs₂NaNdCl₆", *Physical Review B: Condensed Matter and Materials Physics*, Vol 73, February 2006, p 075113.
- NING, L, MAK, C S K and TANNER, P A, "High spin and low spin *f-d* transitions of Tb³⁺ in elpasolite hosts", *Physical Review B: Condensed Matter and Materials Physics*, Vol 72, August 2005, p 085127.
- NG Kwok Shing** LAW, H W, WU, R S S, NG, K S, YU, R M K and KONG, R Y C, "Cloning and expression analysis of two distinct HIF-alpha isoforms -- gcHIF-1alpha and gcHIF-4alpha -- from the hypoxia-tolerant grass carp, *Ctenopharyngodon idellus*", *BMC Molecular Biology*, Vol 7, 20 April 2006, p 15.

- PAN Zaifa** RENGARAJ, S, LI, X Z, TANNER, P A, PAN, Z and PANG, G K H, "Photocatalytic degradation of methylparathion - An endocrine disruptor by Bi³⁺-doped TiO₂", *Journal of Molecular Catalysis A: Chemical*, Vol 247, March 2006, pp 36-43.
- PANG Ka Lai** SAKAYAROJ, J, PANG, K L, JONES, E B G, PHONGPAICHIT, S, VRIJMOED, L L P and ABDEL-WAHAB, M A, "A systematic reassessment of the marine ascomycetes *Torpedospora* and *Swampomyces*", *Botanica Marina*, Vol 48, December 2005, pp 395-406.
- QIU Yongge** QIU, Y and LI, D, "Bifunctional inhibitors of mevalonate kinase and mevalonate 5-diphosphate decarboxylase", *Organic Letters*, 8(6), March 2006, pp 1013-1016.
- SHANG Eva Hui Hua** SHANG, E H H, YU, R M K and WU, R S S, "Hypoxia affects sex differentiation and development, leading to a male-dominated population in zebrafish (*Danio rerio*)", *Environmental Science & Technology*, Vol 40, May 2006, pp 3118-3122.
- SHEN Xiao Ling** TSE, K W N, WAN, E C K, SHEN, X L, YANG, M and FONG, W F, "Honokiol inhibits TNF- α -stimulated NF- κ B activation and NF- κ B-regulated gene expression through suppression of IKK activation", *Biochemical Pharmacology*, Vol 70, November 2005, pp 1443-1457.
- SHI Angelina Yue-feng** CHEUNG, P Y B, ZHANG, Q, ZHANG, Y, BAI, G, LIN, M C M, CHAN, B P L, FONG, C C, SHI, L, SHI, A Y F, CHUN, J, KUNG, H F and YANG, M, "Effect of Weijia on carbon tetrachloride induced chronic liver injury", *World Journal of Gastroenterology*, Vol 12, March 2006, pp 1912-1917.
- SIU William Ho Lim** DAVIES, W R, SIU, W H L, JACK, R W, WU, R S S, LAM, P K S and NUGEGODA, D, "Comparative effects of the blue green algae *Nodularia spumigena* and a lysed extract on detoxification and antioxidant enzymes in the green lipped mussel (*Perna viridis*)", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 1026-1033.
- ZHOU, B S, LIU, W H, SIU, W H L, O'TOOLE, D K, LAM, P K S and WU, R S S, "Exposure of spermatozoa to duroquinone may impair reproduction of the common carp (*Cyprinus carpio*) through oxidative stress", *Aquatic Toxicology*, Vol 77, May 2006, pp 136-142.
- CHOI, N M C, YEUNG, L W Y, SIU, W H L, SO, M K, JACK, R W, HSIEH, D P H, WU, R S S and LAM, P K S, "Relationships between tissue concentrations of paralytic shellfish toxins and antioxidative responses of clams, *Ruditapes philippinarum*", *Marine Pollution Bulletin*, Vol 52, May 2006, pp 572-597.
- SO Man Ka** SO, M K, ZHANG, X, GIESY, J P, FUNG, C N, FONG, H W, ZHENG, J S, KRAMER, M J, YOO, H and LAM, P K S, "Organochlorines and dioxin-like compounds in green-lipped mussels *Perna viridis* from Hong Kong mariculture zones", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 677-687.
- SO, M K, TANIYASU, S, LAM, P K S, ZHENG, J S, GIESY, J P and YAMASHITA, N, "Alkaline Digestion and Solid Phase Extraction Method for Perfluorinated Compounds in Mussels and Oysters from South China and Japan", *Archives of Environmental Contamination and Toxicology*, Vol 50, February 2006, pp 240-248.

YEUNG, L W Y, SO, M K, JIANG, G B, TANIYASU, S, YAMASHITA, N, SONG, M Y, WU, Y N, LI, J G, GIESY, J P, GURUGE, K S and LAM, P K S, "Perfluorooctanesulfonate and related fluorochemicals in human blood samples from China", *Environmental Science & Technology*, Vol 40, February 2006, pp 715-720.

SO, M K, YAMASHITA, N, TANIYASU, S, JIANG, S Q T, GIESY, J P, CHEN, K and LAM, P K S, "Health risks in infants associated with exposure to perfluorinated compounds in human breast milk from Zhoushan, China", *Environmental Science & Technology*, Vol 40, May 2006, pp 2924-2929.

GULKOWSKA, A, JIANG, S Q T, SO, M K, TANIYASU, S, LAM, P K S and YAMASHITA, N, "Persistent perfluorinated acids in seafood collected from two cities of China", *Environmental Science & Technology*, Vol 40, June 2006, pp 3736-3741.

CHOI, N M C, YEUNG, L W Y, SIU, W H L, SO, M K, JACK, R W, HSIEH, D P H, WU, R S S and LAM, P K S, "Relationships between tissue concentrations of paralytic shellfish toxins and antioxidative responses of clams, *Ruditapes philippinarum*", *Marine Pollution Bulletin*, Vol 52, May 2006, pp 572-597.

TAM Christopher Wing Fai

WAI, K M, TAM, C W F and TANNER, P A, "Observational and modeling studies of chemical species concentrations as a function of raindrop size", *Atmospheric Environment*, Vol 39, December 2005, pp 7872-7879.

TANNER, P A and TAM, C W F, "In-cloud concentrations and below-cloud scavenging processes in Hong Kong, China", *Environmental Chemistry*, Vol 3, May 2006, pp 142-148.

WAI, K M, TANNER, P A and TAM, C W F, "2-year study of chemical composition of bulk deposition in a South China coastal city: Comparison with East Asian cities", *Environmental Science & Technology*, Vol 39, September 2005, pp 6542-6547.

Teng Pang Fei

LEE, C S, TENG, P F, WONG, W L, KWONG, H L and CHAN, A S C, "New C₂-symmetric 2,2'-Bipyridine Crown Macrocycles for Enantioselective Recognition of Amino Acid Derivatives", *Tetrahedron*, Vol 61, August 2005, pp 7924-7930.

TENG, P F, TSANG, C S, YEUNG, H L, WONG, W L, KWONG, H L and WILLIAMS, I D, "New chiral bidentate ligands containing thiazolyl and pyridyl donor for copper-catalyzed asymmetric allylic oxidation of cyclohexene", *Journal of Organometallic Chemistry*, Vol 691, May 2006, pp 2237-2244.

TSANG Hing Kit

LO, K K W, TSANG, H K and SZE, K S, "Utilization of the Highly Environment-Sensitive Emission Properties of Rhenium(I) Amidodipyridoquinoxaline Biotin Complexes in the Development of Biological Probes", *Inorganic Chemistry*, 45(4), February 2006, pp 1714-1722.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, NG, D C M, ZHU, N and CHEUNG, K K, "Biological Labelling Reagents and Probes Derived from Luminescent Transition Metal Complexes", *Coordination Chemistry Reviews*, Vol 249, July 2005, pp 1434-1450.

LO, K K W, TSANG, H K, HUI, W K and ZHU, N, "Synthesis, Characterization, Crystal Structure, and Electrochemical, Photophysical, and Protein-Binding Properties of Luminescent Rhenium(I) Diimine Indole Complexes", *Inorganic Chemistry*, Vol 44, August 2005, pp 6100-6110.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M and NG, D C M, "Luminescent Transition Metal Polypyridine Biotin Complexes", *Journal of the Chinese Chemical Society*, Vol 53, February 2006, pp 53-65.

LO, K K W, TSANG, H K and ZHU, N, "Luminescent Tricarbonylrhenium(I) Polypyridine Estradiol Conjugates: Synthesis, Crystal Structure, and Photophysical, Electrochemical, and Protein-Binding Properties", *Organometallics*, Vol 25, June 2006, pp 3220-3227.

LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M, LI, C C K, LAU, S Y and NG, D C M, "Luminescent Transition Metal Complex Biotin Conjugates", *Coordination Chemistry Reviews*, Vol 250, February 2006, pp 1724-1736.

TSE Kai Wing

TSE, K W N, WAN, E C K, SHEN, X L, YANG, M and FONG, W F, "Honokiol inhibits TNF- α -stimulated NF- κ B activation and NF- κ B-regulated gene expression through suppression of IKK activation", *Biochemical Pharmacology*, Vol 70, November 2005, pp 1443-1457.

WAI Ka Ming

WAI, K M, TAM, C W F and TANNER, P A, "Observational and modeling studies of chemical species concentrations as a function of raindrop size", *Atmospheric Environment*, Vol 39, December 2005, pp 7872-7879.

WAI, K M and TANNER, P A, "Case studies of Asian dust storm impacts on a coastal site: Implication of a good dust storm tracer", *Water, Air and Soil Pollution*, Vol 168, November 2005, pp 59-70.

WAI, K M, TANNER, P A and TAM, C W F, "2-year study of chemical composition of bulk deposition in a South China coastal city: Comparison with East Asian cities", *Environmental Science & Technology*, Vol 39, September 2005, pp 6542-6547.

WAI, K M and TANNER, P A, "Relationship between the ionic composition in PM₁₀ and the synoptic-scale and meso-scale weather conditions in a South China coastal city: A 4-year study", *Journal of Geophysical Research*, Vol 110, September 2005, p D18210.

WAN Edwin Chi Keung

TSE, K W N, WAN, E C K, SHEN, X L, YANG, M and FONG, W F, "Honokiol inhibits TNF- α -stimulated NF- κ B activation and NF- κ B-regulated gene expression through suppression of IKK activation", *Biochemical Pharmacology*, Vol 70, November 2005, pp 1443-1457.

WANG Cheng

FONG, W F, WANG, C, ZHU, G Y, LEUNG, C H, YANG, M and CHEUNG, H Y, "Reversal of multidrug resistance in cancer cells by Rhizoma Alismatis extract", *Phytomedicine*, May 2006, published on web, (doi:10.1016/j.phymed.2006.03.004).

- WANG Jin** WANG, J, HE, F T, TZANG, L C H, FONG, W F, XIAO, P, HAN, R and YANG, M, "Differential gene expression profiles in paclitaxel-induced cell cycle arrest and apoptosis in human breast cancer MCF-7 cells", *Acta Pharmaceutica Sinica 藥學學報*, 40(12), December 2005, pp 1099-1104.
- YANG Jun** YI, R C Q, ZHANG, Q, LI, C W, YANG, J, ZHAO, J and YANG, M, "Optical and electrochemical detection techniques for cell-based microfluidic systems", *Analytical and Bioanalytical Chemistry*, Vol 384, March 2006, pp 1259-1268.
- LI, C W, YANG, J and YANG, M, "Dose-dependent cell-based assays in V-shaped microfluidic channels", *Lab on a Chip*, Vol 6, June 2006, pp 921-929.
- YAU Sammi King Woon** LAM, W W Y, YIU, S M, LEE, J M N, YAU, S K W, KWONG, H K, LAU, T C, LIU, D and LIN, Z, "BF₃-Activated Oxidation of Alkanes by MnO₄⁻", *Journal of the American Chemical Society*, Vol 128, March 2006, pp 2851-2858.
- YEUNG Ho-lun** TENG, P F, TSANG, C S, YEUNG, H L, WONG, W L, KWONG, H L and WILLIAMS, I D, "New chiral bidentate ligands containing thiazolyl and pyridyl donor for copper-catalyzed asymmetric allylic oxidation of cyclohexene", *Journal of Organometallic Chemistry*, Vol 691, May 2006, pp 2237-2244.
- YI Roddy Chang-qing** YI, R C Q, LI, C W, JI, S and YANG, M, "Microfluidics Technology for Manipulation and Analysis of Biological Cells", *Analytica Chimica Acta*, Vol 560, February 2006, pp 1-23.
- YI, R C Q, ZHANG, Q, LI, C W, YANG, J, ZHAO, J and YANG, M, "Optical and electrochemical detection techniques for cell-based microfluidic systems", *Analytical and Bioanalytical Chemistry*, Vol 384, March 2006, pp 1259-1268.
- YIU Shek Man** LAM, W W Y, YIU, S M, LEE, J M N, YAU, S K W, KWONG, H K, LAU, T C, LIU, D and LIN, Z, "BF₃-Activated Oxidation of Alkanes by MnO₄⁻", *Journal of the American Chemical Society*, Vol 128, March 2006, pp 2851-2858.
- YU Keith Shek Hang** YU, K S H, WONG, H Y, YAU, W Y, WONG, Y S and TAM, N F Y, "Natural attenuation, biostimulation and bioaugmentation on biodegradation of polycyclic aromatic hydrocarbons (PAHs) in mangrove sediments", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 1071-1077.
- YU Wenhua** ZENG, J, DENG, G S, YU, W H and LI, D, "Inactivation of medium-chain acyl-CoA dehydrogenase by oct-4-en-2-ynoyl-CoA", *Bioorganic and Medicinal Chemistry Letters*, 16(5), March 2006, pp 1445-1448.
- ZENG Jia** ZENG, J, DENG, G S, YU, W H and LI, D, "Inactivation of medium-chain acyl-CoA dehydrogenase by oct-4-en-2-ynoyl-CoA", *Bioorganic and Medicinal Chemistry Letters*, 16(5), March 2006, pp 1445-1448.
- ZENG, J, DENG, G S and LI, D, "Intrinsic enoyl-CoA isomerase activity of rat acyl-CoA oxidase I", *Biochimica et Biophysica Acta - General Subjects*, 1760(1), January 2006, pp 78-85.

ZHANG Ming-liang

SHAO, M W, YAO, H, ZHANG, M L, WONG, N B, SHAN, Y and LEE, S T, "Fabrication and Application of Long Strands of Silicon Nanowires as Sensors for Bovine Serum Albumin Detection", *Applied Physics Letters*, Vol 87, December 2005, pp 183106-1 – 183106-3.

ZHOU Hong Wei

GUO, C L, ZHOU, H W, WONG, Y S and TAM, N F Y, "Isolation of PAH-degrading bacteria from mangrove sediments and their biodegradation potential", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 1054-1061.

ZHOU, H W, WONG, N B, ZHOU, G and TIAN, A M, "What makes the cylinder-shaped N_{-72} cage stable?", *Journal of Physical Chemistry A: Molecules, Spectroscopy, Kinetics, Environment, & General Theory*, Vol 110, June 2006, pp 7441-7446.

ZHOU Julia Xian Ju

TANNER, P A, ZHOU, J X J, WONG, W T, KRATZER, C and YERSIN, H, "Structure and spectroscopy of $Tb[Au(CN)_2]_3 \cdot 3H_2O$ ", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, July 2005, pp 13083-13090.

ZHOU, J X J and TANNER, P A, "Ultraviolet emission and unusual hot bands of Ho^{3+} in elpasolite hosts", *Chemical Physics Letters*, Vol 413, September 2005, pp 284-288.

ZHOU, J X J, MAK, C S K, TANNER, P A and FAUCHER, M D, "Spectroscopic properties and configuration interaction assisted crystal field analysis of Nd^{3+} in neat $Cs_2NaNdCl_6$ ", *Physical Review B: Condensed Matter and Materials Physics*, Vol 73, February 2006, p 075113.

Conference papers

CHAN Sidney Man Ngai

CHAN, S M N, WONG, Y S and TAM, N F Y, "Removal of polycyclic aromatic hydrocarbons by free and immobilized microalgal species, *Selenastrum carpicornutum*", Third European Bioremediation Conference, Chania-Crete, Greece, 4-7 July 2005.

TAM, N F Y, JIN, J, LUAN, T G, CHAN, S M N and WONG, Y S, "Repeated use of alginate immobilized *Chlorella vulgaris* beads for removal of tributyltin (TBT) from wastewater", 7th IWA Specialty Conference on Small Water and Wastewater Systems, Mexico City, Mexico, 7-10 March 2006.

CHUNG Chi Keung

LO, K K W, HUI, W K, NG, D C M, CHUNG, C K, LAU, S Y, TSANG, H K, LEE, T K M and LI, C C K, "Luminescent Biotin-Transition Metal Complex Conjugates As New Biological Probes", 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.

LEE, T K M, CHUNG, C K, LUI, L H, TSANG, H K, ZHU, N and LO, K K W, "New Luminescent Cyclometallated Iridium(III) Diimine Complexes as Biological Labelling Reagents", 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.

CHUNG, C K, ZHU, N and LO, K K W, "Nucleic Acid Intercalators Derived from Luminescent Cyclometallated Iridium(III) Dipyridoquinoxaline and Dipyridophenazine Complexes", 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.

ZHANG, K Y, CHUNG, C K, ZHU, N and LO, K K W, "New Luminescent Cyclometallated Iridium(III) Dipyridoquinoxaline- and Dipyridophenazine-biotin Complexes", 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.

HUI Wai Ki

LO, K K W, HUI, W K, NG, D C M, CHUNG, C K, LAU, S Y, TSANG, H K, LEE, T K M and LI, C C K, "Luminescent Biotin-Transition Metal Complex Conjugates As New Biological Probes", 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.

LAU Shing Yip

LO, K K W, HUI, W K, NG, D C M, CHUNG, C K, LAU, S Y, TSANG, H K, LEE, T K M and LI, C C K, "Luminescent Biotin-Transition Metal Complex Conjugates As New Biological Probes", 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.

LAU, S Y, LO, D K K, LO, L T L and LO, K K W, "Synthesis, Characterisation and Photophysical, Electrochemical and Anion-binding Properties of Luminescent Cyclometallated Iridium(III) Polypyridine Thiourea Complexes", 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.

LEUNG Jeff Wan-hei

LEUNG, J W H, LAI, G H Y and VRIJMOED, L L P, "Effect of temperature and water activity on germination and growth of some common indoor fungi", *Proceedings of the 10th International Conference on Indoor Air Quality and Climate (Indoor Air 2005)*, Beijing, PRC, 4-9 September 2005, p 131.

LAI, G H Y, LEUNG, J W H and VRIJMOED, L L P, "A comparison of indoor microbes in two old folks home with different ventilation systems", *Proceedings of the 10th International Conference on Indoor Air Quality and Climate (Indoor Air 2005)*, Beijing, PRC, 4-9 September 2005, pp 618-622.

LI Jie Liang

ZHANG, Z Q, LI, J L and CHEUNG, H Y, "Kinetic study on the reaction of glutathione and andrographolide", Mosbacher Kolloquium - "Redox Signalling: Mechanism and Biological Impact", Mosbach, Germany, 6-8 April 2006.

LI, J L, ZHANG, Z Q and CHEUNG, H Y, "Andrographolide induces G2/M phase cell cycle arrest in HepG2 cells via alteration of cellular redox status", Mosbacher Kolloquium - "Redox signaling: Mechanism and biological Impact", Mosbach, Germany, 6-8 April 2006.

MAK Chris Shuk Kwan

TANNER, P A, MAK, C S K and NING, L, "Spin allowed and spin forbidden f-d transitions of Tb^{3+} in Cs_2NaYCl_6 ", 14th International Conference on Luminescence (ICL 2005), Beijing, PRC, 25-29 July 2005.

- PAN Zaifa** PAN, Z, TANNER, P A, RAKOV, N and MACIEL, G S, “Luminescence of Eu^{3+} in $\alpha\text{-Al}_2\text{O}_3$ powders”, 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.
- TANG Janet Yat Man** AU, D W T, XU, J, TANG, J Y M and WONG, C K C, “The ichthyotoxic alga *Chattonella marina* is capable to impair osmoregulatory hoemostasis in fish”, *Proceedings of the 5th Intercongress Symposium of the Asia and Oceania Society for Comparative Endocrinology*, Asia and Oceania Society for Comparative Endocrinology, Bangkok, Thailand, 7-10 February 2006, pp 83-88.
- TSANG Hing Kit** LO, K K W, HUI, W K, NG, D C M, CHUNG, C K, LAU, S Y, TSANG, H K, LEE, T K M and LI, C C K, “Luminescent Biotin-Transition Metal Complex Conjugates As New Biological Probes”, 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.
- LEE, T K M, CHUNG, C K, LUI, L H, TSANG, H K, ZHU, N and LO, K K W, “New Luminescent Cyclometallated Iridium(III) Diimine Complexes as Biological Labelling Reagents”, 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.
- TSANG, H K and LO, K K W, “Bifunctional Luminescent Rhenium(I) Complexes containing an Extended Planar Diimine Ligand and a Biotin Moiety”, 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.
- TSANG, H K, ZHU, N and LO, K K W, “Novel Luminescent Rhenium(I) Polypyridine Estradiol Conjugates – Synthesis, Crystal Structure, and Protein-Binding Properties”, 13th Symposium on Chemistry Postgraduate Research in Hong Kong, HKUST, Hong Kong, PRC, 22 April 2006.
- SZE, K S, TSANG, H K and LO, K K W, “Utilisation of the Highly Environment-Sensitive Emission Properties of Rhenium(I) Amidodipyridoquinoxaline Biotin Complexes in the Development of Biological Probes”, 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.
- TSE Kai Wing** CHAN, K F, HO, J P Y, LI, W Y, LAU, B M F, TSE, K W N, FONG, W F, BILEK, M M M, MCKENZIE, D R, CHU, P K H and YU, K N, “Investigation of Cytocompatibility of Surface-treated Cellulose Nitrate Films by Using Plasma Immersion Ion Implantation”, 8th International Workshop on Plasma-based Ion Implantation and Deposition (PBII&D), Chengdu, PRC, 18-22 September 2005.
- CHAN, K F, SIU, S Y M, MCCLELLA, K E, TSE, K W N, LAU, B M F, NIKEZIC, D, RICHARDSON, B J, LAM, P K S, FONG, W F and YU, K N, “Alpha-particle Radiobiological Experiments Using Thin CR-39 Detectors”, 14th Symposium on Microdosimetry (MICROS 2005), Venezia, Italy, 13-18 November 2005.

ZHOU Julia Xian Ju

TANNER, P A, FAUCHER, M D and ZHOU, J X J, "Improved energy level parametrizations for lanthanide ions", 14th International Conference on Luminescence (ICL 2005), Beijing, PRC, 25-29 July 2005.

ZHOU, J X J and TANNER, P A, "Two-centre vibronic transitions: are the vibrations involved infrared active?", 14th International Conference on Luminescence (ICL 2005), Beijing, PRC, 25-29 July 2005.

LAW, G L, WONG, K L, ZHOU, J X J and TANNER, P A, "Direct triplet state sensitization of lanthanide luminescence", 14th International Conference on Luminescence (ICL 2005), Beijing, PRC, 25-29 July 2005.

TANNER, P A, FAUCHER, M D and ZHOU, J X J, "Configuration interaction in centrosymmetric lanthanide compounds", The 15th International Conference on Dynamic Processes in Excited States of Solids, Shanghai, PRC, 1-5 August 2005.

ZHOU, J X J and TANNER, P A, "Emission from higher energy levels of Ho^{3+} in HoCl_6^{3-} ", The 15th International Conference on Dynamic Processes in Excited States of Solids, Shanghai, PRC, 1-5 August 2005.

ZHOU, J X J, FAUCHER, M D and TANNER, P A, "Electronic Spectra of $\text{Cs}_2\text{NaYbF}_6$ and Crystal Field Analyses of YbX_6^{3-} ($X = \text{F}, \text{Cl}, \text{Br}$)", 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.

ZHOU, J X J and TANNER, P A, "Emission from higher multiplets of Ho^{3+} in HoCl_6^{3-} ", 14th International Conference on Luminescence (ICL 2005), Beijing, PRC, 25-29 July 2005.

All other outputs

CHUNG Chi Keung

CHUNG, C K, Utilisation of Luminescent Cyclometallated Iridium(III) Polypyridine Complexes as Biological Labelling Reagents and Probes, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 3 August 2005.

FUNG Cheuk Nang

FUNG, C N, Risks Posed by Environmental Contaminants to the East and South Coasts of China, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 13 December 2005.

GAO Qinfeng

GAO, Q F, Use of Artificial Reefs and Green-lipped Mussels (*Perna viridis*) for Removal of Nutrients from Marine Fish Farming, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 9 August 2005.

GUO Chu Ling

GUO, C L, Biodegradation Ability and Community Structure of Bacteria in Mangrove Sediments Contaminated by Polycyclic Aromatic Hydrocarbons (PAHs), PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 1 June 2006.

- HUNG Ching Yee** HUNG, C Y, Survival Strategies of Common Carp, *Cyprinus carpio*, during Prolonged Starvation and Hypoxia, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 20 August 2005.
- LAM Chung Wah** LAM, C W, Ecological Risk Assessment of Oviparous Wildlife from Hong Kong and Southeastern Coast of China due to Environmental Contaminants, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 9 September 2005.
- LAW Hiu-wan** LAW, H W, Molecular Studies of the Hypoxia-Inducible Factor (HIF) Family of Transcription Factors in Grass Carp, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 13 October 2005.
- LEE Ivan Sze-chung** LEE, I S C, The Acidity and Basicity of the Atmosphere in Hong Kong, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 19 April 2006.
- LEUNG Ka Yee** LEUNG, K Y, Aerosol in the Atmosphere and Dry Deposition in Hong Kong, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 21 April 2006.
- MAN Kwok Wai** MAN, K W, The Development of Surfactant-mediated Analytical Methods for the Determination of Cyanobacterial Toxins in Natural Waters, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 1 September 2005.
- POON Wing Lin** POON, W L, In Vivo Changes in Common Carp (*Cyprinus Carpio* L.) Liver during Hypoxia at the Molecular and Cellular Level, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 3 August 2005.
- SHANG Eva Hui Hua** SHANG, E H H, Teratogenic and Endocrine-Disrupting Effects of Hypoxia on Development of Zebrafish (*Danio rerio*), PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 14 November 2005.
- SIU Yee Ming** SIU, Y M, The Use of Selected Genotoxicity Assays in Hong Kong Coastal Waters, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 4 August 2005.
- TSUI Tommy Kuen Nang** TSUI, T K N, Mechanisms of Ammonia Tolerance in the Oriental Weatherloach, *Misgurnus Anguillicaudatus*, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 21 July 2005.
- YIU Shek Man** YIU, S M, Studies on Activation of Nitrido Complexes of Osmium and Manganese towards Alkane Oxidation and N...N Coupling, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 20 September 2005.
- YU Wenhua** YU, W H, Studies of the Enzymes Involved in Unsaturated Fatty Acid Oxidation, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 11 January 2006.

- YUEN Bun Ho** YUEN, B H, Fish Intestine as a Target Organ for Chronic Dietary Polycyclic Aromatic Hydrocarbons (PAHs) Exposure: Relating Ethoxyresorufin-O-Deethylase (EROD) Activities to Morphofunctional Effects, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 18 August 2005.
- ZENG Jia** ZENG, J, Mechanistic Studies of Enzymatic Reactions Involved in Fatty Acid Oxidation, PhD Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 8 March 2006.

DEPARTMENT OF BUILDING AND CONSTRUCTION

Journal publications

- CHEUNG Chi Pok** CHEUNG, C P, YUEN, R K K, YEOH, G H and LO, S M, "Sensitivity Study on Three Different S_N Order Schemes of the Discrete Ordinates Method for Two-compartment Enclosure Fire", *Fire Safety Journal*, 40(8), November 2005, pp 736-744.
- CUI Hong Zhi** LO, T Y and CUI, H Z, "The Effects of Curing Age on the Creep and Shrinkage of Lightweight Concrete", *Journal of Materials Science and Technology*, 13(1), Sofia, Bulgaria, October 2005, pp 456-464.
- LO, T Y, LEUNG, W M and CUI, H Z, "Roof construction defects of medium-rise buildings in sub-tropical climates", *Structural Survey*, 23(3), United Kingdom, July 2005, pp 203-209.
- FU Jiyang** FU, J, LI, Q and XIE, Z N, "Prediction of Wind Loads on a Large Flat Roof Using Fuzzy Neural Networks", *Engineering Structures*, Vol 28, 2006, pp 153-161.
- FU, J, LI, Q and XIE, Z N, "Wind Effects on a Large Cantilevered Flat Roof: Loading Characteristics and Strategy of Reduction", *Wind and Structures*, 18(5), September 2005, pp 357-372.
- LAI Siu-kai** LIM, C W, LAI, S K and LEUNG, A Y T, "Damped mechanical system nonlinear oscillation approach in electrodynamics", *Chinese Quarterly of Mechanics 力學季刊*, 26(4), December 2005, pp 534-538.
- LAI, S K and LIM, C W, "Accurate higher-order approximate solutions to strongly nonlinear Duffing oscillator", *International Journal for Computational Methods in Engineering Science and Mechanics*, 7(3), May-June 2006, pp 201-208.
- LIM, C W and LAI, S K, "Accurate higher-order analytical approximate solutions to nonconservative nonlinear oscillators and application to van der Pol damped oscillators", *International Journal of Mechanical Sciences*, 48(5), May 2006, pp 483-492.
- LIM, C W, LAI, S K and WU, B S, "Accurate higher-order analytical approximate solutions to large-amplitude oscillating systems with a general non-rational restoring force", *Nonlinear Dynamics*, 42(3), November 2005, pp 267-281.

- LAM Tony Ngan Tung** LI, D H W, LAM, T N T and WONG, S L, "Lighting and energy performance for an office using high frequency dimming controls", *Energy Conversion and Management*, 47(9-10), June 2006, pp 1133-1145.
- LAU Chung Shing** LI, D H W, LAU, C S and LAM, J C, "Predicting daylight illuminance on inclined surfaces using sky luminance data", *Energy*, 30(9), 2005, pp 1649-1665.
- LI, D H W, CHEUNG, H W and LAU, C S, "A simplified procedure for determining indoor daylight illuminance using daylight coefficient concept", *Building and Environment*, 41(5), May 2006, pp 578-589.
- LAU Clement Wai-hoi** LIM, C W and LAU, C W H, "A new two-dimensional model for electromechanical response of thick laminated piezoelectric actuator", *International Journal of Solids and Structures*, 42(20), October 2005, pp 5589-5611.
- LAU, C W H, LIM, C W and LEUNG, A Y T, "A variational energy approach for electromechanical analysis of thick piezoelectric beam", *Journal of Zhejiang University (Sciences Edition) 浙江大學學報. 理學版*, 6A(9), September 2005, pp 962-966.
- LIU Min** LO, S M, HU, B Q, LIU, M and YUEN, R K K, "On the Use of Reliability Interval Method and Grey Relational Model for Fire Safety Ranking of Existing Buildings", *Fire Technology*, 41(4), October 2005, pp 255-270.
- NADEEM Abid** TANG, W C, BALENDRAN, R V, NADEEM, A and LEUNG, H Y, "Flexural strengthening of reinforced lightweight polystyrene aggregate concrete beams with near-surface mounted GFRP bars", *Building and Environment*, Vol 41, June 2006, pp 1381-1393.
- PENG Lin Xin** LIEW, K M, PENG, L X and KITIPORNCHAI, S, "Buckling analysis of corrugated plates using a mesh-free Galerkin method based on the first-order shear deformation theory", *Computational Mechanics*, 38(1), June 2006, pp 61-75.
- LIEW, K M, PENG, L X and KITIPORNCHAI, S, "Buckling of folded plate structures subjected to partial in-plane edge loads by the FSDT meshfree Galerkin method", *International Journal for Numerical Methods in Engineering*, 65(9), 26 February 2006, pp 1495-1526.
- PENG, L X, LIEW, K M and KITIPORNCHAI, S, "Buckling and free vibration analyses of stiffened plates using the FSDT mesh-free method", *Journal of Sound and Vibration*, 289(3), 24 January 2006, pp 421-449.
- SUN Walter Huai Yang** LEE, R Y Y, SUN, W H Y and REDDY, J N, "Nonlinear finite element modal approach for the large amplitude free vibration of symmetric and unsymmetric composite plates", *International Journal for Numerical Methods in Engineering*, 65(1), 2006, pp 45-61.
- SUN Yuzhou** SUN, Y, ZHANG, Z, KITIPORNCHAI, S and LIEW, K M, "Analyzing the interaction between collinear interfacial cracks by an efficient boundary element-free method", *International Journal of Engineering Science*, 44(1-2), January 2006, pp 37-48.

TAM Vivian Wing Yan

TAM, V W Y, TAM, C M, ZENG, S X and CHAN, K K, "Environmental Performance Measurement Indicators in Construction", *Building and Environment*, 41(2), February 2006, pp 164-173.

TAM, V W Y, TAM, C M, SHEN, L Y, ZENG, S X and HO, C M, "Environmental Performance Assessment: Perceptions of Project Managers on the Relationship between Operational and Environmental Performance Indicators", *Construction Management and Economics*, 24(3), March 2006, pp 287-299.

TAM, V W Y, GAO, X F and TAM, C M, "Quality Improvement of Recycled Aggregate Concrete", *Key Engineering Materials*, Vol 302-303, May 2006, pp 308-313.

TSANG Kin Wai

LI, D H W and TSANG, K W, "An analysis of measured and simulated daylight illuminance and lighting savings in a daylit corridor.", *Building and Environment*, 40(7), July 2005, pp 973-982.

WANG Dong

WANG, D and LU, J W Z, "Forecasting of ozone level in time series using MLP model with a novel hybrid training algorithm", *Atmospheric Environment*, 40(5), February 2006, pp 913-924.

WANG, D and LU, J W Z, "Interval estimation of urban ozone level and selection of influential factors by employing automatic relevance determination model", *Chemosphere*, 62(10), March 2006, pp 1600-1611.

WANG Shan Yong

WANG, S Y, AU, A S K, LAM, K C and TANG, C A, "Numerical Study of Elastic-Brittle Failure of Notched Openings in Rocks", *Key Engineering Materials*, Vol 297-300, 2005, pp 2605-2611.

WANG, S Y, AU, A S K, LAM, K C and TANG, C A, "A Numerical Study of Pillar Failure Based on a Cusp-Type Catastrophe Model", *Key Engineering Materials*, Vol 297-300, 2005, pp 2628-2635.

AU, A S K, WANG, S Y, LAM, K C and TANG, C A, "An Numerical Investigation of the Progressive Failure of Jointed Rock Slope Subjected to Transient Seepage", *Key Engineering Materials*, Vol 297-300, 2005, pp 2579-2585.

WANG, S Y, AU, A S K, LAM, K C and TANG, C A, "Numerical Study on the Fracture Evolution around Cavities in Rock", *Key Engineering Materials*, Vol 297-300, 2005, pp 2598-2604.

WONG Peter Shek-pui

LO, T, WONG, P S P and CHEUNG, S O, "Using Balanced Scorecard (BSC) approach to measure performance of partnering projects", *Surveying and Built Environment*, 17(1), June 2006, pp 45-57.

WONG, P S P, CHEUNG, S O and HO, P K M, "Contractor as trust initiator in construction partnering – Prisoner's Dilemma Perspective", *Journal of Construction Engineering and Management - ASCE*, 131(10), October 2005, pp 1045-1053.

CHEUNG, S O, WONG, P S P, FUNG, A S Y and COFFEY, W V, "Predicting project performance through neural networks", *International Journal of Project Management*, 24(3), April 2006, pp 207-215.

WONG Sai Li

LI, D H W, LAM, J C and WONG, S L, "Daylighting and its effects on peak load determination", *Energy*, 30(10), 2005, pp 1817-1831.

LI, D H W, LAM, T N T and WONG, S L, "Lighting and energy performance for an office using high frequency dimming controls", *Energy Conversion and Management*, 47(9-10), June 2006, pp 1133-1145.

WU Jiu Rong

WU, J R and LI, Q, "Structural Parameter Identification and Damage Detection for a Steel Structure Using a Two-Stage Finite Element Model Updating Method", *Journal of Constructional Steel Research*, Vol 62, 2006, pp 231-239.

YIU Kenneth Tak-wing

YIU, T W and CHEUNG, S O, "A Catastrophe Model of Construction Conflict Behavior", *Building and Environment*, 41(4), 2006, pp 438-447.

CHEUNG, S O, YIU, T W and CHIM, P S, "How relational are construction contracts?", *Journal of Professional Issues in Engineering Education and Practice*, 132(1), January 2006, pp 48-56.

CHEUNG, S O, YIU, T W and CHUNG, H W R, "The Use of Decision Support Tool in Construction Dispute Negotiation", *Australian Dispute Resolution Journal*, 16(3), 2005, pp 170-186.

ZHU Bin

LEUNG, A Y T, KUANG, J, LIM, C W and ZHU, B, "Spatial chaos of buckled elastica by the Kirchhoff analogy of a gyrostat", *Computers & Structures*, 83(28-30), November 2005, pp 2395-2413.

LEUNG, A Y T and ZHU, B, "Transverse vibration of Mindlin plates on two-parameter foundations by analytical trapezoidal p-elements", *Journal of Engineering Mechanics - ASCE*, 131(11), November 2005, pp 1140-1145.

Conference papers

CUI Hong Zhi

LO, T Y and CUI, H Z, "Development Potential of using Lightweight Concrete in Hong Kong Construction", Seminar on Design, Development and Application of Lightweight Concrete - Materials Solutions for the Sustainable Future of Hong Kong, Hong Kong Institution of Engineers, Hong Kong, PRC, July 2005.

FU Jiyang

LI, Q, FU, J, XIAO, Y Q, LI, Z N, NI, Z H, XIE, Z N and GU, M, "Wind Tunnel and Full Scale Study of Wind Effects on the Highest Building in China", *Proceedings of the 6th Asia-Pacific Conference on Wind Engineering (APCWE VI)*, Seoul, South Korea, 12-14 September 2005, pp 1061-1069.

LI, Q, WU, J R, FU, J, CHEN, L, XIAO, Y Q, LI, Z N and YANG, Z Y, “Simultaneous Monitoring of Typhoon Characteristics and Dynamic Response of Guangzhou Citic Plaza Tower”, *Proceedings of the 12th National Wind Engineering*, Xian, PRC, 19-22 October 2005, pp 778-784.

GUO Xiang

LEUNG, A Y T, GUO, X and HE, X Q, “Buckling and post-buckling of carbon nanotubes”, Annual Conference of Hong Kong Society of Theoretical and Applied Mechanics & 3rd Shanghai-Hong Kong Forum on Mechanics and Its Application, Hong Kong, PRC, 11 March 2006.

LEUNG, A Y T and GUO, X, “Application of atomic-scale finite element method to bending buckling of single-walled carbon nanotubes”, Asia-Pacific Conference of Transducers and Micro-Nano Technology (APCOT 2006), Singapore, 25-28 June 2006.

GUO, X, LEUNG, A Y T, HE, X Q, JIANG, H, KITIPORNCHAI, S, HUANG, Y and LU, J W Z, “Application of atomic-scale finite element method to buckling and post-buckling of single-walled carbon nanotube”, *Proceedings of the 10th International Conference on Civil, Structural and Environmental Engineering Computing (Civil-Comp’2005)*, Rome, Italy, 29 August - 2 September 2005.

LAI Siu-kai

LIM, C W, LAI, S K and LEUNG, A Y T, “Accurate approximate analytical approach for long Josephson junction”, *Proceedings of the 11th Asia-Pacific Vibration Conference (APVC 2005)*, Malaysia, 23-25 November 2005, pp 601-606.

LAI, S K, LIM, C W and LEUNG, A Y T, “Higher-order analytical approximate solutions for nonlinear free vibration of systems with serial linear and nonlinear stiffnesses”, *Annual Conference of HKSTAM*, Hong Kong, PRC, 11 March 2006, p 29.

NADEEM Abid

TANG, W C, BALENDRAN, R V and NADEEM, A, “The residual mechanical and fracture properties of HPC after exposure to elevated temperatures”, *Our World in Concrete and Structures (OWICS)*, Singapore, 23-24 August 2005, pp 807-816 .

TANG Chun Ming

TANG, C M, WONG, C W Y, LEUNG, A Y T and LAM, K C, “A GA-based borrowing strategy for construction SMEs in Hong Kong.”, *21st ARCOM Annual Conference 2005*, London, United Kingdom, 7-9 September 2005, p 1.

TANG, C M and LEUNG, A Y T, “An impartial decision model for financial risk and decision analysis in construction projects”, *21st ARCOM Annual Conference 2005*, London, United Kingdom, 7-9 September 2005, p 1.

WANG Dong

WANG, D and LU, J W Z, “Support vector machine for ground-level ozone prediction in the scenario of risk-oriented training strategy”, *Proceedings of the Annual Conference of the Hong Kong Society of Theoretical and Applied Mechanics (HKSTAM)*, Hong Kong, PRC, 11 March 2006.

WANG, D and LU, J W Z, “Simulating ozone time series using an innovative hybrid model based on a multi-layer perceptron”, *Proceedings of the 10th International Conference on Civil, Structural and Environmental Engineering Computing (Civil-Comp’2005)*, Rome, Italy, 29 August 2005 - 2 September 2005.

- WANG Shan Yong** WANG, S Y, LAM, K C, AU, A S K, SU, L J and YANG, X Q, “Numerical Study of Rock Failure Due to the Pre-existing Crack Initiation and Propagation and Hydraulic Fractures Interaction”, *Geotechnical Special Publication*, ASCE, Shanghai, PRC, 2006, pp 268-275.
- WONG Peter Shek-pui** MCINNIS, A, CHEUNG, S O and WONG, P S P, “Design and Build: The Context”, The Survey, Design and Build Symposium, Architectural Services Department, Hong Kong, PRC, 26 January 2006.
- WONG, P S P, CHEUNG, S O and TSOI, N Y, “Applying Supply Chain Management in Construction Projects”, *Proceedings of the 3rd International Structural Engineering and Construction Conference (ISEC-03)*, Japan, 20-23 September 2005, pp 527-535.
- WONG, P S P and CHEUNG, S O, “From Monitoring to Learning: A Conceptual Framework”, *21st ARCOM Annual Conference*, London, United Kingdom, 7-9 September 2005, pp 1037-1051.
- WU Jiu Rong** LI, Q and WU, J R, “Time-Frequency Analysis of Wind Characteristics and Wind-Induced Responses of a Super Tall Building during a Typhoon”, *Proceedings of the 6th Asia-Pacific Conference on Wind Engineering (APCWE VI)*, Seoul, South Korea, 12-14 September 2005, pp 1321-1336.
- WU, J R, LIU, P and LI, Q, “Effects on Nonlinear Damping and Time Constant on Wind-induced Responses of a 79-storey Tall Building”, *Proceedings of the Sixth International Conference on Tall Buildings (ICTB-VI)*, Hong Kong, PRC, 6-8 December 2005, pp 468-476.
- LI, Q, WU, J R, FU, J, CHEN, L, XIAO, Y Q, LI, Z N and YANG, Z Y, “Simultaneous Monitoring of Typhoon Characteristics and Dynamic Response of Guangzhou Citic Plaza Tower”, *Proceedings of the 12th National Wind Engineering*, Xian, PRC, 19-22 October 2005, pp 778-784.
- XU Jiana** LEUNG, A Y T, XU, J and GE, J X, “Analysis of dynamical impacts of interest rate on expected housing price”, *21st ARCOM Annual Conference 2005*, London, United Kingdom, 7-9 September 2005, p 1.
- LEUNG, A Y T, XU, J and GE, J X, “Analysis of Real Estate Market Dynamics Based on Cobweb Model with Bi-adaptive Expectations”, *3rd International Conference on Construction in the 21st Century (CITC-III)*, “*Advancing Engineering, Management and Technology*”, Athens, Greece, 15-17 September 2005, p 1.
- YIU Kenneth Tak-wing** YIU, T W and CHEUNG, S O, “Process Driven Construction Mediation Outcomes”, *Proceedings of the COBRA and AUBEA joint conference*, Queensland University of Technology, Australia, July 2005, pp 788-797.
- ZHENG Jian Jun** LEUNG, A Y T, ZHENG, J J and LIM, C W, “Symplectic method for a piezoelectric cantilever beam”, *Proceedings of the 10th International Conference on Civil, Structural and Environmental Engineering Computing*, Rome, Italy, 30 August 2005 - 2 September 2005, p 148.

LEUNG, A Y T, ZHENG, J J and LIM, C W, "Singularity problems of a cantilever composite thick beam", *Annual Conference of HKSTAM*, Hong Kong, PRC, 11 March 2006, p 5.

Creative and literary works, consulting reports and case studies

LAM Tony Ngan Tung

LI, D H W, TSANG, K W, CHEUNG, H W, LAM, T N T, CHEUNG, K L, WONG, S L and YIP, W T, *Simple daylight software tool*", *Design Report*, Architectural Service Department, HKSAR, Hong Kong, PRC, March 2006.

LI, D H W, TSANG, K W, CHEUNG, H W, LAM, T N T, CHEUNG, K L, WONG, S L and YIP, W T, *Simple daylight software tool*", *User's Guide*, Architectural Service Department, HKSAR, Hong Kong, PRC, March 2006.

TSANG Kin Wai

LI, D H W, TSANG, K W, CHEUNG, H W, LAM, T N T, CHEUNG, K L, WONG, S L and YIP, W T, *Simple daylight software tool*", *Design Report*, Architectural Service Department, HKSAR, Hong Kong, PRC, March 2006.

LI, D H W, TSANG, K W, CHEUNG, H W, LAM, T N T, CHEUNG, K L, WONG, S L and YIP, W T, *Simple daylight software tool*", *User's Guide*, Architectural Service Department, HKSAR, Hong Kong, PRC, March 2006.

WONG Peter Shek-pui

MCINNIS, A, CHEUNG, S O and WONG, P S P, *Design and Build: The Context*, The Survey, Architectural Services Department, Hong Kong, PRC, January 2006.

WONG Sai Li

LI, D H W, TSANG, K W, CHEUNG, H W, LAM, T N T, CHEUNG, K L, WONG, S L and YIP, W T, *Simple daylight software tool*", *Design Report*, Architectural Service Department, HKSAR, Hong Kong, PRC, March 2006.

LI, D H W, TSANG, K W, CHEUNG, H W, LAM, T N T, CHEUNG, K L, WONG, S L and YIP, W T, *Simple daylight software tool*", *User's Guide*, Architectural Service Department, HKSAR, Hong Kong, PRC, March 2006.

All other outputs

CHEUNG Chi Pok

CHEUNG, C P, *Modelling of Building Fires Coupled with Turbulent, Combustion, Soot Chemistry and Radiation Effects*, PhD Thesis, Department of Building and Construction, City University of Hong Kong, Hong Kong, PRC, 26 January 2006.

LIN Peng

LIN, P, *A Dynamic Network Flow Optimization for Large-scale Emergency Evacuation*, PhD Thesis, Department of Building and Construction, City University of Hong Kong, Hong Kong, PRC, 26 January 2006.

PENG Lin Xin

PENG, L X, *Numerical Development in Meshfree Method for Stiffened Plates and Plate Assemblies*, PhD Thesis, Department of Building and Construction, City University of Hong Kong, Hong Kong, PRC, 1 March 2006.

TANG Chun Ming

TANG, C M, *An Impartial Financial Decision Support System (e-FDSS) for Construction SMEs in Hong Kong*, PhD Thesis, Department of Building and Construction, City University of Hong Kong, Hong Kong, PRC, 12 December 2005.

Scholarly books, monographs and chapters

- LIU Hai** LIU, H and JIA, X, “Linear Programming Approaches to Optimization Problems of Energy Efficiency in Wireless Ad Hoc Networks”, *Handbook on Theoretical and Algorithmic Aspects of Sensor, Ad Hoc Wireless, and Peer-to-Peer Networks*, J Wu (ed), Auerbach Publications, USA, 8 August 2005, pp 177-192, http://www.crcpress.com/shopping_cart/products/product_contents.asp?id=&parent_id=&sku=AU2832.

Journal publications

- CHANG Matthew Chor Ming** CHANG, M C M and POON, C K, “Efficient Phrase Querying with Common Phrase Index”, *Lecture Notes in Computer Science*, Vol 3936, 2006, pp 61-71, (28th European Conference on Information Retrieval (ECIR'06), April 2006).
- CHEUNG San Kuen** FONG, J, NG, W, CHEUNG, S K and AU, I, “Positioning-Based Query Translation Between SQL and XQL with Location Counter”, *Lecture Notes in Computer Science*, Vol 3842, 2006, pp 11-18, (International Workshop on XML Research and Applications (XRA 2006), Harbin, PRC, January 2006).
- FONG, J, CHEUNG, S K, SHIU, H C and CHEUNG, C C, “Visualization of XML Conceptual Schema Recovered from XML Schema Definition”, *International Journal of Web Information Systems*, 1(4), December 2005, pp 209-222.
- DU Hongwei** MIN, M K, DU, H, JIA, X, HUANG, X, HUANG, C H and WU, W L, “Improving Construction for Connected Dominating Set with Steiner Tree in Wireless Sensor Networks”, *Journal of Global Optimization*, 35(1), Springer, May 2006, pp 111-119.
- JIA, X, LI, D Y, DU, H and CAO, J, “On Optimal Replication of Data Object at Hierarchical and Transparent Web Proxies”, *IEEE Transactions on Parallel and Distributed Systems*, 16(8), August 2005, pp 673-685, <http://ieeexplore.ieee.org/xpl/tocresult.jsp?isYear=2005&isnumber=31393&Submit32=Go+To+Issue>.
- WU, W L, DU, H, JIA, X, LI, Y S and HUANG, S C H, “Minimum connected dominating sets and maximal independent sets in unit disk graphs”, *Theoretical Computer Science*, Vol 352, 2006, pp 1-7.
- DU, H, JIA, X, WANG, F, THAI, M and LI, Y S, “A Note on Optical Network with Nonsplitting Nodes”, *Journal of Combinatorial Optimization*, 10(2), September 2005, pp 199-202.
- FAN Jianxi** FAN, J, LIN, X L and JIA, X, “Optimal Path Embedding in Crossed Cubes”, *IEEE Transactions on Parallel and Distributed Systems*, 16(12), December 2005, pp 1190-1200, <http://ieeexplore.ieee.org/xpl/tocresult.jsp?isYear=2005&isnumber=32611&Submit32=Go+To+Issue>.

FAN, J, LIN, X L, JIA, X and LAU, R W H, "Edge-Pancyclicity of Twisted Cubes", *Lecture Notes in Computer Science*, Vol 3827, 2005, pp 1090-1099, <http://springerlink.metapress.com/link.asp?ID=PH3014526121P30X>, (16th Annual International Symposium on Algorithms and Computation (ISAAC 2005), Hainan, PRC, 19-21 December 2005).

FENG Judy Jun

FENG, J and IP, H S H, "Iterative 3D Point-Set Registration Based on Hierarchical Vertex Signature (HVS)", *Lecture Notes in Computer Science*, Vol 3750, 2005, pp 279-286, (Proceedings of 8th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI 2005), Palm Springs, California, USA, 26-29 October 2005).

FENG, J and IP, H S H, "Chi-Square Goodness-of-Fit Test of 3D Point Correspondence for Model Similarity Measure and Analysis", *Lecture Notes in Computer Science*, Vol 3568, 2005, pp 445-453, (Proceedings of 4th International Conference on Image and Video Retrieval (CIVR 2005), Singapore, 20-22 July 2005).

FENG, J, CHENG, S H, CHAN, P K and IP, H S H, "Reconstruction and representation of caudal vasculature of zebrafish embryo from confocal scanning laser fluorescence microscopic images", *Computers in Biology and Medicine*, Vol 35, December 2005, pp 915-931.

FU Yingjie

LIU, W Y, DENG, X, HUANG, G and FU, Y, "An Antiphishing Strategy Based on Visual Similarity Assessment", *IEEE Internet Computing*, 10(2), IEEE Computer Society, March/April 2006, pp 58-65.

FU, Y, DENG, X and LIU, W Y, "A potential IRI based Phishing strategy", *Lecture Notes in Computer Science*, Vol 3806, 2005, pp 618-619.

LEUNG Elvis Wai Chung

LEUNG, E W C, LI, F W B, LI, Q and LAU, R W H, "SMIL-Based eLearning Wrapper for Incorporating Computer Games on Personalized Multimedia Course Materials", *Lecture Notes in Computer Science*, Vol 3597, 2005, pp 270-281, (Human.Society@Internet 2005, Tokyo, Japan).

LEUNG, E W C, LI, Q and ZHANG, Y, "Media-Based Presentation with Personalization in a Web-Based eLearning System", *Lecture Notes in Computer Science*, Vol 3818, 2005, pp 160-171, (The 10th Asian Computing Science Conference (ASIAN 2005), Kunming, PRC).

LIN Lidong

DU, W F, LIN, L, JIA, W and WANG, G J, "Modeling and Performance Evaluation of Handover Service in Wireless Networks", *Lecture Notes in Computer Science*, Vol 3619, August 2005, pp 229-238, [http://springerlink.com/\(detnl4452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detnl4452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).

LIU Hai

LIU, H, WAN, P J and JIA, X, "On Optimal Placement of Relay Nodes for Reliable Connectivity in Wireless Sensor Networks", *Journal of Combinatorial Optimization*, 11(2), Springer, March 2006, pp 249-260.

LIU, H, JIA, X, LI, D Y and LEE, C H, “Bandwidth Guaranteed Call Admission in TDMA/CDMA Ad Hoc Wireless Networks”, *Ad Hoc Networks*, Vol 3, 2005, pp 689-701.

LIU, H, WAN, P J and JIA, X, “Fault-Tolerant Relay Node Placement in Wireless Sensor Networks”, *Lecture Notes in Computer Science*, Vol 3595, 2005, pp 230-239, (The 11th International Computing and Combinatorics Conference (COCOON05), Kunming, PRC, 16-19 August 2005).

TU Wanqing

JIA, W, TU, W and WU, J, “Distributed Hierarchical Multicast Tree Algorithms for Application Layer Mesh Networks”, *IEICE Transactions on Information & Systems*, E89-D(2), February 2006, pp 654-662, http://search.ieice.org/bin/summary.php?id=e89-d_2_654&category=D&year=2006&lang=E&abst=.

JIA, W, TU, W and WU, J, “Hierarchical Multicast Tree Algorithms for Application Layer Mesh Networks”, *Lecture Notes in Computer Science*, Vol 3619, August 2005, pp 549-559.

TU, W and JIA, W, “APB: An Adaptive Playback Buffer Scheme for Wireless Streaming Media”, *IEICE Transactions on Communications*, E88-B(10), 1 October 2005, pp 4030-4039, http://search.ieice.org/bin/summary.php?id=e88-b_10_4030&category=B&year=2005&lang=E&abst=.

JIA, W, WANG, H X, TU, W and ZHAO, W, “A New Delay Control Method for Real-time Flows”, *Journal of Combinatorial Optimization*, Springer Netherlands, 27 June 2006, published online, [http://www.springerlink.com/\(c3sguoabw352ld45dqdq3s55\)/app/home/contribution.asp?referrer=par](http://www.springerlink.com/(c3sguoabw352ld45dqdq3s55)/app/home/contribution.asp?referrer=par).

WANG Hanli

WANG, H, KWONG, S and KWONG, C W, “Efficient Prediction Algorithm of Integer DCT Coefficients for H.264/AVC Optimization”, *IEEE Transactions on Circuits and Systems for Video Technology*, 16(4), April 2006, pp 547-552.

WANG, H, CHAN, M Y, KWONG, S and KOK, C W, “Novel Quantized DCT for Video Encoder Optimization”, *IEEE Signal Processing Letters*, 13(4), April 2006, pp 205-208.

WANG, H and KWONG, S, “Preferential Multi-objective genetic algorithm for JPEG Quantization table Optimization”, *Dynamics of Continuous, Discrete and Impulsive Systems, Series B: Applications and Algorithms*, 2(Special Issue), 2005, pp 608-613.

WANG Liping

DING, D, YANG, J, LI, Q, LIU, W Y and WANG, L P, “What Can Expressive Semantics Tell: Retrieval Model for a Flash-Movie Search Engine”, *Lecture Notes in Computer Science*, Vol 3568, 2005, pp 123-133, (Proceedings of the 4th Conference on Image and Video Retrieval (CIVR 2005), Singapore).

WONG Hing-kwok

KWAN, I, FONG, J and WONG, H K, “An e-customer behavior model with online analytical mining for internet marketing planning”, *Decision Support Systems*, 41(1), November 2005, pp 189-204.

FONG, J, FONG, A S S, WONG, H K and YU, W T, "Translating Relational Schema with Constraints into Xml Schema", *International Journal of Software Engineering and Knowledge Engineering*, 16(2), April 2006, pp 201-243.

WU Xiao

WU, X, NGO, C W and LI, Q, "Threading and Autodocumenting News Videos", *IEEE Signal Processing Magazine*, 23(2), March 2006, pp 59-68.

LEE, C S V, WU, X and NG, J K Y, "Scheduling real-time requests in on-demand data broadcast environments", *Real-Time Systems*, Springer Netherlands, 15 May 2006, published online.

YUEN Chun Hung

YUEN, C H, CHAN, E and LAM, K Y, "A Buffered-bandwidth Approach for Supporting Real-Time Video Streaming over Cellular Networks", *Multimedia Tools and Applications*, 28(1), February 2006, pp 141-155.

ZHANG Wan

FENG, M, ZHANG, W and LIU, W Y, "Symbol Recognition Using Bipartite Transformation Distance and Angular Distribution Alignment", *Lecture Notes in Computer Science*, Vol 3926, 2005, pp 408-417, (The Sixth IAPR International Workshop on Graphics Recognition (GREC 2005), Hong Kong, PRC, 25-26, August 2005).

ZHANG, J, ZHANG, W and LIU, W Y, "Adaptive Noise Reduction for Engineering Drawings Based on Primitives and Noise Assessment", *Lecture Notes in Computer Science*, Vol 3926, 2005, pp 143-154, (Sixth IAPR International Workshop on Graphics Recognition (GREC 2005), PRC, 25-26, August 2005).

ZHAO Hao

LI, J, LI, K, LAW, C K K and ZHAO, H, "On Packing and Coloring Hyperedges in a Cycle", *Lecture Notes in Computer Science*, Vol 3595, August 2005, pp 220-229, (Proceedings of the 11th Annual International Conference (COCOON) 2005, Kunming, PRC).

LI, J, LI, K, WANG, L and ZHAO, H, "Maximizing Profits of Routing in WDM Networks", *Journal of Combinatorial Optimization*, 10(2), September 2005, pp 99-111.

WANG, L, ZHANG, F and ZHAO, H, "On the ordering of benzenoid chains and cyclo-polyphenacenes with respect to their numbers of Clar aromatic sextets", *Journal of Mathematical Chemistry*, 38(2), August 2005, pp 293-309.

Conference papers

CHEUNG San Kuen

FONG, J and CHEUNG, S K, "The XSD-Builder Specification Language - Toward a Semantic View of XML Schema Definition", *Advances in Information Systems Development, Bridging the Gap Between Academia and Practice, Proceedings of the Fourteenth International Conference on Information Systems Development*, Karlstad, Sweden, 14-17, August 2005, pp 819-830.

FAN Jianxi

FAN, J, LIN, X L and JIA, X, "Embedding Paths of Different Lengths into Crossed Cubes", *Proceedings of the 6th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT 2005)*, Dalian, PRC, 5-8 December 2005, pp 1008-1012, <http://doi.ieeecomputersociety.org/10.1109/PDCAT.2005.132>.

FOK Apple Wai Ping

FOK, A W P, WONG, H S and CHEN, Y, "Hidden Markov Model Based Characterization of Content Access Patterns in an e-Learning Environment", *Proceedings of the IEEE International Conference on Multimedia and Expo (ICME 2005)*, Netherlands, July 2005, pp 201-204.

FOK, A W P, XIAO, X, SHI, Y and IP, H S H, "A Personalized Agents Platform Design and Implementation for Personalized Education", *Proceedings of the 13th International Conference on Computers in Education 2005 - Towards Sustainable and Scalable Educational Innovation informed by the Learning Science (ICCE 2005)*, Singapore, November 2005, pp 654-657.

FOK, A W P and IP, H S H, "Ontology-driven Incremental Annotation of Educational Content for Instructional Planning", *Proceedings of the 13th International Conference on Computers in Education 2005 - Towards Sustainable and Scalable Educational Innovation informed by the Learning Science (ICCE 2005)*, Singapore, November 2005, pp 74-81.

IP, H S H, SHA, Y, FOK, A W P and LEE, S W, "Pocket School – Monitoring Student Performance on Mobile Devices", *Proceedings of the 5th IASTED International Conference on Web-based Education (WBE 2006)*, Puerto Vallarta, Mexico, 23-25 January 2006, pp 51-56.

FU Yingjie

FU, Y, LIU, W Y and DENG, X, "EMD Based Visual Similarity for Detection of Phishing Webpages", *Proceedings of the 3rd International Workshop on Web Document Analysis (WDA 2005)*, Seoul, South Korea, August 2005, published in CD Rom.

FU, Y, ZHANG, W, DENG, X and LIU, W Y, "Safeguard Against Unicode Attack: Generation and Applications of UC-SimList", *15th International World Wide Web Conference (WWW 2006)*, Edinburgh, Scotland, United Kingdom, 23-26 May 2006, published in CD Rom, <http://www2006.org/posters/>.

LIN Lidong

LIN, L, FU, H and JIA, W, "An Efficient Admission Control for IEEE 802.11 Networks Based on Throughput Analyses of (Un)saturated Channel", *Proceedings of the 2005 IEEE Global Telecommunications Conference (IEEE GLOBECOM 2005)*, Vol 5, USA, 28 November 2005 - 2 December 2005, pp 3017-3021, <http://ieeexplore.ieee.org/search/searchresult.jsp?queryText=%28jia+%3Cin%3E+au%29+%3Cand%3E+>.

LIN, L and JIA, W, "An Efficient Method for End-to-end Available Bandwidth Measurement", *Proceedings of the 19th International Teletraffic Congress (ITC-19)*, Beijing, PRC, 29 August 2005 - 2 September 2005, pp 253-262.

LIU Hai

LIU, H, WAN, P J, JIA, X, LIU, X and YAO, F, "Efficient Flooding Scheme Based on 1-hop Information in Mobile Ad Hoc Networks", *Proceedings of the 25th IEEE International Conference on Computer Communications (IEEE INFOCOM 2006)*, Barcelona, Spain, 23-29 April 2006, published in CD Rom, http://www.ieee-infocom.org/2006/technical_program.htm.

TU Wanqing

TU, W and JIA, W, "An End Host Multicast Protocol for Peer-to-Peer Networks", *Proceedings of the IEEE Conference on Local Computer Networks 30th Anniversary (LCN'05)*, Sydney, Australia, 15-17 November 2005, pp 392-399, <http://ieeexplore.ieee.org/search/searchresult.jsp?queryText=%28jia+%3Cin%3E+au%29+%3Cand%3E+>.

WANG Hanli

TSANG, C H, KWONG, S and WANG, H, "Anomaly Intrusion Detection using Multi-Objective Genetic Fuzzy System and Agent-based Evolutionary Computation Framework", *Proceedings of the 5th 2005 IEEE International Conference on Data Mining (ICDM '05)*, Houston, Texas, USA, 27-30 November 2005, pp 789-792.

WANG, H and KWONG, S, "Novel Variance Based Approach to Improving JPEG Decoding", *Proceedings of the IEEE International Conference on Industrial Technology (IEEE ICIT 2005)*, Hong Kong, PRC, 14-17 December 2005, pp 475-479.

WANG, H, KWONG, S and KWOK, C W, "Fast Video Coding Based on Gaussian Model of DCT Coefficients", *Proceedings of the 2006 IEEE International Symposium on Circuits and Systems (ISCAS 2006)*, Greece, 21-24 May 2006, pp 1703-1706.

WEI Xiaoyong

NGO, C W, PAN, Z, WEI, X, WU, X, TAN, H K and ZHAO, W, "Motion Driven Approaches to Shot Boundary Detection, Low-Level Feature Extraction and BBC Rushes Characterization at TRECVID 2005", *Proceedings of the TRECVID Workshop*, National Institute of Standards and Technology (NIST), Gaithersburg, USA, 14-15 November 2005, published online.

WU Xiao

WU, X, NGO, C W and LI, Q, "Co-clustering of Time-Evolving News Story with Transcript and Keyframe", *Proceedings of the 2005 IEEE International Conference on Multimedia and Expo (ICME 2005)*, Amsterdam, Netherlands, 6-8 July 2005, pp 117-120.

NGO, C W, PAN, Z, WEI, X, WU, X, TAN, H K and ZHAO, W, "Motion Driven Approaches to Shot Boundary Detection, Low-Level Feature Extraction and BBC Rushes Characterization at TRECVID 2005", *Proceedings of the TRECVID Workshop*, National Institute of Standards and Technology (NIST), Gaithersburg, USA, 14-15 November 2005, published online.

WU, X, LEE, C S V and NG, J K Y, "A Preemptive Scheduling Algorithm for Wireless Real-Time On-Demand Data Broadcast", *Proceedings of the 11th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA 2005)*, Hong Kong, PRC, 17-19 August 2005, pp 17-22.

LAM, K W, LEE, C S V and WU, X, "On-Demand Broadcast for Mobile Real-Time Multi-Item Requests", *Proceedings of the 2006 IEEE International Conference on Computing and Informatics (ICOCI 2006)*, Kuala Lumpur, Malaysia, 6-8 June 2006, published in CD Rom.

WU, X, "Threading Stories and Generating Topic Structures in News Videos across Different Sources", *Proceedings of the 13th ACM International Conference Multimedia (ACM Multimedia 2005)*, Singapore, 6-12 November 2005, pp 1047-1048.

XIAO Xiaokui

XIAO, X and TAO, Y, "Personalized Privacy Preservation", *Proceedings of the 2006 ACM SIGMOD International Conference on Management of Data (SIGMOD 2006)*, Chicago, Illinois, USA, 27-29 June 2006, published in CD Rom.

TAO, Y, XIAO, X and PEI, J, "SUBSKY: Efficient Computation of Skylines in Subspaces", *Proceedings of the 22nd IEEE International Conference on Data Engineering (ICDE '06)*, Atlanta, USA, 3-7 April 2006, published in CD Rom.

TAO, Y, CHENG, R, XIAO, X, NGAI, W K, KAO, B and PRABHAKAR, S, "Indexing Multi-Dimensional Uncertain Data with Arbitrary Probability Density Functions", *Proceedings of the 31st Very Large Data Bases Conference (VLDB 2005)*, Trondheim, Norway, 30 August 2005 - 2 September 2005, pp 922-933.

ZHANG Wan

FU, Y, ZHANG, W, DENG, X and LIU, W Y, "Safeguard Against Unicode Attack: Generation and Applications of UC-SimList", *15th International World Wide Web Conference (WWW 2006)*, Edinburgh, Scotland, United Kingdom, 23-26 May 2006, published in CD Rom, <http://www2006.org/posters/>.

All other outputs**CHEUNG Hung Ching**

CHEUNG, H C, Notions of Security of Cryptographic Protocols for E-commerce: Soundness, Impersonation Attacks, Universally Composable Security, and Anti-spamming, PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, January 2006.

CHEUNG San Kuen

CHEUNG, S K, Hybrid Data Modeling Techniques for XML Schema Definition with Data Semantics Preservation, PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, June 2006.

FENG Judy Jun

FENG, J, Reconstruction and Analysis of Soft-Tissue Organs and Tubular Structures Using Three-Dimensional Statistical Deformable Models, PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, December 2005.

FOK Apple Wai Ping

FOK, A W P, "PEOnto – Integration of Multiple Ontologies for Personalized Learning", First Place, International Association of Science and Technology for Development (IASTED), 5th International Competition of PhD Students on Research in Web-based Education (WBE) Area, Mexico, January 2006.

TU Wanqing

TU, W, End Host Multicast Algorithms for Overlay Networks, PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, December 2005.

JIA, W, TU, W and WU, J, "Hierarchical Multicast Tree Algorithms for Application Layer Mesh Networks", Best Paper Award, IEEE Computer Society, 2005 International Conference on Computer Networks and Mobile Computing (ICCNMC'05), Zhangjiajie, PRC, August 2005, pp 549-559.

- YUEN Chun Hung** YUEN, C H, Buffered Data Management for Mobile Multimedia Systems, PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, July 2005.
- ZHAO Hao** ZHAO, H, Emerging Patterns, RNA Structures, and Routing in Rings, PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, July 2005.

DEPARTMENT OF ELECTRONIC ENGINEERING

Scholarly books, monographs and chapters

- FAN Zhengping** CHEN, G R, FAN, Z P and LI, X, "Modeling the Complex Internet Topology", *Complex Dynamics in Communication Networks*, L Kocarev and G Vattay (eds), Springer-Verlag, Berlin, Germany, 2005, pp 213-234.
- LAM Ping Man** LEUNG, C S, LAM, P M and WONG, T T, "Texture Compression with Coefficient Domain Shaders", *Shader X⁴: Advanced Rendering Techniques*, W Engel (ed), Charles River Media, USA, 2006, pp 251-262.
- WONG, T T, WAN, L, LEUNG, C S and LAM, P M, "Real-Time Environment Mapping with Equal Solid-Angle Spherical Quad-Map", *Shader X⁴: Advanced Rendering Techniques*, W Engel (ed), Charles River Media, USA, 2006, pp 221-234.
- LI Yi** LI, Y, KO, K T and CHEN, G R, "H[∞] Optimization of PI-Controlled AQM", *Performance Challenges for Efficient Next Generation Networks*, Vol 6a, X J Liang, Z H Xin and V B Iversen et al. (eds), BUPT Press, Beijing, PRC, August 2005, pp 603-612, (ISBN 7-5635-1141-5).
- WANG Shilin** WANG, S L, LAU, W H, LIEW, A W C and LEUNG, S H, "Fuzzy Clustering- Based Approaches in Automatic Lip Segmentation from Color Images", *Advances in Image and Video Segmentation*, Y J Zhang (ed), IRM Press, USA, May 2006, pp 292-317, (Chapter XIV).

Journal publications

- BAI Yukun** BAI, Y and CHIANG, K S, "Analysis and Design of Long-period Waveguide Grating Couplers", *IEEE/OSA Journal of Lightwave Technology*, 23(12), December 2005, pp 4363-4373.
- CHAN Florence Yuen Ming** CHAN, F Y M and CHIANG, K S, "Transfer-matrix Method for the Analysis of Two Parallel Dissimilar Non-uniform Long-period Fiber Gratings", *IEEE/OSA Journal of Lightwave Technology*, 24(2), February 2006, pp 1008-1018.
- CHAN Frankie Kit Wing** SO, H C, CHAN, K W, CHAN, Y T and HO, K C, "Linear Prediction Approach for Efficient Frequency Estimation of Multiple Real Sinusoids: Algorithms and Analyses", *IEEE Transactions on Signal Processing*, 53(7), July 2005, pp 2290-2305.

- SO, H C and CHAN, K W, "A Generalized Weighted Linear Predictor Frequency Estimation Approach for a Complex Sinusoid", *IEEE Transactions on Signal Processing*, 54(4), April 2006, pp 1304-1315.
- CHAN Samuel Sau Man** CHAN, S S M, CHUNG, H S H and HUI, S Y R, "Design and Analysis of an IC-less Self-Oscillating Series Resonant Inverter for Dimmable Electronic Ballasts", *IEEE Transactions on Power Electronics*, 20(6), November 2005, pp 1450-1458.
- CHAN Tak Ming** CHAN, T M, MAN, K F, TANG, K S and KWONG, S, "A Jumping gene algorithm for multiobjective resource management in wideband CDMA systems", *Computer Journal*, 48(6), Nov 2005, pp 749-768.
- CHEN Jianxin** LI, J, CHEN, J, XIA, L, XUE, Q and XUE, L J, "Microstrip Bandpass Filter Using a Triangular-patch Resonator with Three Transmission Zeros", *Microwave and Optical Technology Letters*, 48(5), May 2006, pp 914-915.
- SHI, J, CHEN, J and XUE, Q, "Compact Microstrip Lowpass Filter with Wide Stop-band Integrating a Bandstop Structure in an Open-loop Resonator", *Microwave and Optical Technology Letters*, 47(6), December 2005, pp 582-584.
- CHEN, J, LI, J and XUE, Q, "Lowpass Filter Using Offset Double-sided Parallel-strip Lines", *Electronics Letters*, 41(24), November 2005, pp 1336-1337.
- CHEN, J, SHI, J and XUE, Q, "Novel Compact Microstrip Bandpass Filter Using a Triangular Resonator", *Microwave and Optical Technology Letters*, 47(1), October 2005, pp 49-50.
- CHEN, J and XUE, Q, "Microstrip Bandpass Filter Using Series-connected Triangular Patches", *Microwave and Optical Technology Letters*, 46(1), 5 July 2005, pp 46-48.
- CHEN, J, XU, J and XUE, Q, "A Novel Compact Microstrip Bandpass Filter Using an Open-loop Resonator with Radial Stub", *Microwave and Optical Technology Letters*, 46(4), 20 August 2005, pp 387-389.
- LI, J L, CHEN, J, WANG, J P, XUE, Q, SHAO, W, XIA, L and XUE, L J, "Dual-mode Microstrip Bandpass Filter Using Circular Patch Resonator with Two Transmission Zeros", *Microwave and Optical Technology Letters*, 46(4), 20 August 2005, pp 28-30.
- CHIN Kevin Ching Hong** CHIU, L, YUM, T Y, CHIN, C H, XUE, Q and CHAN, C H, "High-efficiency Class-B Push-pull Amplifying Array for Microwave Transmitting Front End", *IEE Proceedings - Microwaves, Antennas and Propagation*, 153(1), February 2006, pp 25-28.
- CHIU Chi Yuk** CHIU, C Y, CHAN, C H and LUK, K M, "Study of Slotted Microstrip Patch Antennas with Folded Patch Feed", *IEE Proceedings - Microwaves, Antennas and Propagation*, 152(5), October 2005, pp 319-323.
- CHIU Leung** CHIU, L, YUM, T Y, CHIN, C H, XUE, Q and CHAN, C H, "High-efficiency Class-B Push-pull Amplifying Array for Microwave Transmitting Front End", *IEE Proceedings - Microwaves, Antennas and Propagation*, 153(1), February 2006, pp 25-28.

- CHIU, L, YUM, T Y, XUE, Q and CHAN, C H, "A Wideband Compact Parallel-Strip 180° Wilkinson Power Divider for Push-Pull Circuitries", *IEEE Microwave and Wireless Components Letters*, 16(1), January 2006, pp 49-51.
- CHIU, L, YUM, T Y, CHANG, W S, XUE, Q and CHAN, C H, "Retrodirective Array for RFID and Microwave Tracking Beacon Applications", *Microwave and Optical Technology Letters*, 48(2), February 2006, pp 409-411.
- GAN Xiangchao**
- GAN, X C, LIEW, A W C and YAN, H, "A Smoothness Constraint Set Based on Local Statistics of BDCT Coefficients for Image Postprocessing", *Image and Vision Computing*, 23(8), August 2005, pp 731-737.
- GAN, X C, LIEW, A W C and YAN, H, "Microarray Missing Data Imputation Based on a Set Theoretic Framework and Biological Knowledge", *Nucleic Acids Research*, 34(5), March 2006, pp 1608-1619.
- HO Billy Ming Tai**
- HO, B M T and CHUNG, H S H, "An Integrated Inverter with Maximum Power Tracking for Grid-Connected PV Systems", *IEEE Transactions on Power Electronics*, 20(4), July 2005, pp 953-962.
- HUANG Di**
- HUANG, D and CHOW, T W S, "Enhancing Density-Based Data Reduction Using Entropy", *Neural Computation*, February 2006, pp 470-495.
- HUANG, D, CHOW, T W S, MA, E W M and LI, J Y, "Efficient Selection of Discriminative Genes from Microarray Gene Expression Data for Cancer Diagnosis", *IEEE Transactions on Circuits and Systems Part I: Regular Papers*, 52(9), September 2005, pp 1909-1918.
- HUI Ka Yan**
- HUI, K Y and LUK, K M, "Bandwidth Enhancement of Small Dielectric Resonator Loaded Patch Antenna", *IEEE Transactions on Antennas and Propagation*, 54(6), June 2006, pp 1882-1885.
- HUI, K Y and LUK, K M, "Loading Effect of Dielectric Resonator on Small Patch Antennas", *Microwave and Optical Technology Letters*, 48(1), January 2006, pp 86-88.
- ISLAM Md Nazrul**
- ISLAM, M N and CHAN, Y C, "Microwave Preheating of Anisotropic Conductive Adhesive Films for High-Speed Flip Chip on Flex Bonding", *Journal of Electronic Materials*, 35(1), January 2006, pp 123-131.
- RIZVI, M J, CHAN, Y C, BAILEY, C, LU, H and ISLAM, M N, "Effect of Adding 1 wt% Bi into the Sn-2.8Ag-0.5Cu Solder Alloy on the Intermetallic Formations with Cu-Substrate During Soldering and Isothermal Aging", *Journal of Alloys and Compounds*, 407(1-2), 5 January 2006, pp 208-214.
- ISLAM, M N and CHAN, Y C, "Behavior of Anisotropic Conductive Film (ACF) Joint Under Mechanical Shock", *Journal of Electronic Packaging*, 127(4), December 2005, pp 375-380.

ISLAM, M N, CHAN, Y C, ALAM, M O and SHARIF, A, "Comparative Study of the Dissolution Kinetics of Electrolytic Ni and Electroless Ni-P by the Molten Sn3.5Ag Solder Alloy", *ASME Journal of Electronic Packaging*, 127(4), December 2005, pp 365-369.

ISLAM, M N, CHAN, Y C, RIZVI, M J and JILLEK, W, "Investigations of Interfacial Reactions of Sn-Zn Based and Sn-Ag-Cu Lead-Free Solder Alloys as Replacement for Sn-Pb Solder", *Journal of Alloys and Compounds*, 400(1-2), 1 September 2005, pp 136-144.

RIZVI, M J, CHAN, Y C, BAILEY, C, LU, H, ISLAM, M N and WU, B Y, "Wetting and Reaction of Sn-2.8Ag-0.5Cu-1.0Bi Solder with Cu and Ni Substrates", *Journal of Electronic Materials*, 34(8), August 2005, pp 1115-1122.

KWOK Hong Sze

KWOK, H S and TANG, K S, "A Chaos-based Cryptographic Hash Function for Message Authentication", *International Journal of Bifurcation and Chaos*, 15(12), December 2005, pp 4043-4050.

KWOK Sai Kit

TSANG, K F, SHEN, W, KWOK, S K and CHOW, Y L, "A Fast Computational Method for Near Field Capacitive Couplings", *IEEE Microwave and Wireless Components Letters*, 15(12), December 2005, pp 901-903.

LAI Hau Wah

LAI, H W and LUK, K M, "Design and Study of Wide-band Patch Antenna Fed by Meandering Probe", *IEEE Transactions on Antennas and Propagation*, 54(2, Part 2), February 2006, pp 564-571.

LAI, H W, WONG, T P, MAK, C L and LUK, K M, "Wideband Dual-polarized Antenna Array on Finite Conducting Cylinder", *Microwave and Optical Technology Letters*, 48(5), May 2006, pp 862-866.

LAI, H W and LUK, K M, "Wideband Patch Antenna Fed by a Modified L-shaped Probe", *Microwave and Optical Technology Letters*, 48(5), May 2006, pp 977-979.

LAM Benson Shu-yan

LAM, S Y and YAN, H, "New Curve-tracing Algorithm Based on a Minimum-Spanning-tree Model and Regularized Fuzzy Clustering", *Optical Engineering*, 45(1), January 2006, pp 017201-017211.

LAM Ping Man

LEUNG, C S, WONG, T T, LAM, P M and CHOY, K H, "An RBF-based Compression Method for Image-based Relighting", *IEEE Transactions on Image Processing*, 15(4), April 2006, pp 1031-1041.

LAM, P M, LEUNG, C S and WONG, T T, "Noise-resistant Fitting for Spherical Harmonics", *IEEE Transactions on Visualization and Computer Graphics*, 12(2), March-April 2006, pp 254-265.

LEE Stephen Tsz Sek

LEE, S T S, CHUNG, H S H and HUI, S Y R, "TRIAC Dimmable Ballast with Power Equalization", *IEEE Transactions on Power Electronics*, 20(6), November 2005, pp 1441-1449.

- LEE Vicki Wai Hung** LEE, W H, WONG, E W M, KO, K T and TANG, K S, "Multimedia-on-Demand Systems with Broadcast, Batch and Interactive Services", *IEICE Transactions on Communications*, E88-B(7), July 2005, pp 3097-3100.
- LEUNG Kelvin Ka Sing** LEUNG, K S and CHUNG, H S H, "Dynamic Hysteresis Band Control of the Buck Converter with Fast Transient Response", *IEEE Transactions on Circuits and Systems Part II: Express Briefs*, 52(7), July 2005, pp 398-402.
- LEUNG Raymond Wai Kong** LI, Ping, LIU, L H, WU, K Y and LEUNG, R W K, "Interleave-Division Multiple-Access", *IEEE Transactions on Wireless Communications*, 24(1), April 2006, pp 141-150.
- LI Bin** LI, B and LEUNG, K W, "Strip-fed Rectangular Dielectric Resonator Antenna with/without a Parasitic Patch", *IEEE Transactions on Antennas and Propagation*, 53(7), July 2005, pp 2200-2207.
- LI Chengqing** LI, C, LI, S J, ZHANG, D and CHEN, G R, "Cryptanalysis of a Data Security Protection Scheme for VoIP", *IEE Proceedings - Vision, Image and Signal Processing*, 153(1), February 2006, pp 1-10.
- LI Pei** LI, P, LUK, K M and LAU, K L, "A Dual-feed Dual-band L-probe Patch Antenna", *IEEE Transactions on Antennas and Propagation*, 53(7), July 2005, pp 2321-2323.
- LI, P, LAU, K L and LUK, K M, "A Study of the Wide-band L-probe Fed Planar Patch Antenna Mounted on a Cylindrical or Conical Surface", *IEEE Transactions on Antennas and Propagation*, 53(10), October 2005, pp 3385-3389.
- LI Richard Chi Leung** TAN, Y Y, LO, W Y, YAU, C H, LI, R C L and FONG, A S S, "A JAVA Processor with Hardware-Support Object-Oriented Instructions", *Microprocessors and Microsystems*, 19 January 2006, published on Web, (ref IJB/2004/45).
- LI Yi** LI, Y, KO, K T and CHEN, G R, "A Smith Predictor-based PI-Controller for Active Queue Management", *IEICE Transactions on Communications*, E88-B(11), November 2005, pp 4293-4300.
- LI, Y, KO, K T and CHEN, G R, "Transient Behavior of PI-Controlled AQM", *Electronics Letters*, 42(8), April 2006, pp 494-495.
- LIM Eng Hock** LIM, E H and LEUNG, K W, "Novel Application of the Hollow Dielectric Resonator Antenna as a Packaging Cover", *IEEE Transactions on Antennas and Propagation*, 54(2), February 2006, pp 484-487.
- LIM, E H and LEUNG, K W, "Dual-Wideband Rectangular Dielectric Resonator for WLAN Communications", *Microwave and Optical Technology Letters*, 48(2), February 2006, pp 378-380.
- LIU Lihai** LIU, L H, TONG, J and LI, Ping, "Analysis and Optimization of CDMA Systems with Chip-Level Interleavers", *IEEE Journal on Selected Areas in Communications*, 24(1), January 2006, pp 141-150.

LI, Ping, LIU, L H, WU, K Y and LEUNG, R W K, "Interleave-Division Multiple-Access", *IEEE Transactions on Wireless Communications*, 24(1), April 2006, pp 141-150.

LIU Qing

LIU, Q, CHIANG, K S and LOR, K P, "Tailoring the Transmission Characteristics of Polymer Long-Period Waveguide Gratings By UV Irradiation", *IEEE Photonics Technology Letters*, 17(11), November 2005, pp 2340-2342.

CHU, Y M, CHIANG, K S and LIU, Q, "Widely Tunable Optical Bandpass Filter by Use of Polymer Long-period Waveguide Gratings", *Applied Optics*, 45(12), April 2006, pp 2755-2760.

CHIANG, K S, CHOW, C K, LIU, Q, CHAN, H P and LOR, K P, "Band-rejection Filter with Widely Tunable Center Wavelength and Contrast Using Metal Long-period Grating on Polymer Waveguide", *IEEE Photonics Technology Letters*, 18(9), May 2006, pp 1109-1111.

LO Wai Keung

YU, C S, CHAN, W S, LI, R C W, LO, W K and CHAN, S H, "2-GHz Quasi-balanced-mode GaAs FET Amplifier", *Microwave and Optical Technology Letters*, 46(6), 20 September 2005, pp 573-577.

MA Eden Wai Man

HUANG, D, CHOW, T W S, MA, E W M and LI, J Y, "Efficient Selection of Discriminative Genes from Microarray Gene Expression Data for Cancer Diagnosis", *IEEE Transactions on Circuits and Systems Part I: Regular Papers*, 52(9), September 2005, pp 1909-1918.

MOK Ka Tsun

YU, C S, MOK, K T, CHAN, W S and LI, R C W, "Experimental Verification of the Possible Range of Linearization Using a Parallel Diode", *Microwave and Optical Technology Letters*, 46(3), 5 August 2005, pp 193-195.

RAHMAN Md. Kaled Masukur

CHOW, T W S and RAHMAN, M K, "Face Matching in Large Database by Self-Organizing Maps", *Neural Processing Letters*, 23(3), June 2006, pp 305-323.

CHOW, T W S, RAHMAN, M K and WU, S T, "Content-based Image Retrieval by Using Tree-Structured Features and Multi-Layer Self-organizing Map", *Pattern Analysis and Applications*, Vol 9, May 2006, pp 1-20.

SEN Banani

SEN, B, WONG, H, FILIP, V, CHOI, H Y, SARKAR, C K, CHAN, M, KOK, C W and POON, M C, "Current Transport and High-Field Reliability of Aluminum/Hafnium Oxide/Silicon Structure", *Thin Solid Films*, Vol 504, May 2006, pp 312-316.

WONG, H, SEN, B, FILIP, V and POON, M C, "Material Properties of Interfacial Silicate Layer and Its Influence on the Electrical Characteristics of MOS Devices using Hafnia as the Gate Dielectric", *Thin Solid Films*, Vol 504, May 2006, pp 192-196.

CHOI, H Y, WONG, H, FILIP, V, SEN, B, KOK, C W, CHAN, M and POON, M C, "Stressing Effects on the Charge Trapping of Silicon Oxynitride Prepared by Thermal Oxidation of LPCVD Si-Rich Silicon Nitride", *Thin Solid Films*, Vol 504, May 2006, pp 7-10.

- SHARIF Ahmed** SHARIF, A and CHAN, Y C, "Liquid and Solid State Interfacial Reactions of Sn-Ag-Cu and Sn-In-Ag-Cu Solders with Ni-P Under Bump Metallization", *Thin Solid Films*, Vol 504, May 2006, pp 431-435.
- ISLAM, M N, CHAN, Y C, ALAM, M O and SHARIF, A, "Comparative Study of the Dissolution Kinetics of Electrolytic Ni and Electroless Ni-P by the Molten Sn_{3.5}Ag Solder Alloy", *ASME Journal of Electronic Packaging*, 127(4), December 2005, pp 365-369.
- SO Kwok Kan** SO, K K and LEUNG, K W, "Bandwidth Enhancement and Frequency Tuning of the Dielectric Resonator Antenna Using a Parasitic Rectangular Slot in the Ground Plane", *IEEE Transactions on Antennas and Propagation*, 53(12), December 2005, pp 4169-4172.
- SOO Kwok Kai** SOO, K K, SIU, Y M, ZHAO, L, YANG, L, CHEN, R S and CHAN, W S, "Power Control Algorithm in CDMA Systems Using Symmetric Successive Overrelaxation Iteration", *European Transactions on Telecommunications (ETT)*, 16(6), 17 October 2005, pp 583-589.
- SIU, Y M, SOO, K K, CHAN, W S and LEUNG, S W, "Admission Control for Variable Spreading Gain CDMA Cellular System with Imperfect Power Control and Shadowing", *Wireless Communications and Mobile Computing*, John Wiley & Sons, 2 March 2006, published on Web.
- YANG, L, CHEN, R S, SIU, Y M and SOO, K K, "PAPR Reduction of an OFDM Signal by Use of PTS with Low Computational Complexity", *IEEE Transactions on Broadcasting*, 52(1), March 2006, pp 83-86.
- TAN Chee Wei** TAN, C W, CHAN, Y C and YEUNG, N H, "Effect of Solder Filler Thickness on the Mechanical Stability of Fiber-Solder-Ferrule Joint Under Temperature Cyclic Loading", *Journal of Materials Science: Materials in Electronics*, 17(4), April 2006, pp 325-333.
- TAN Yi-yu** TAN, Y Y, YAU, C H, LO, K M, YU, R W S, MOK, P L and FONG, A S S, "Design and Implementation of a Java Processor", *IEE Proceedings - Computers and Digital Techniques*, 153(1), January 2006, pp 20-30.
- TAN, Y Y, LO, W Y, YAU, C H, LI, R C L and FONG, A S S, "A JAVA Processor with Hardware-Support Object-Oriented Instructions", *Microprocessors and Microsystems*, 19 January 2006, published on Web, (ref IJB/2004/45).
- YAU, C H, TAN, Y Y, MOK, P L, YU, R W S and FONG, A S S, "A Hardware/ Software Co-design and Co-verification on a Novel Embedded Object-Oriented Processor", *Lecture Notes in Computer Science*, Vol 3824, Springer, December 2005, pp 371-380.
- YAU, C H, TAN, Y Y, FONG, A S S and YU, R W S, "Hardware Concurrent Garbage Collection for Short-lived Objects in Mobile Java Devices", *Lecture Notes in Computer Science*, Vol 3824, Springer, December 2005, pp 47-56.
- TAN, Y Y, YAU, C H, LO, K M, MOK, P L and FONG, A S S, "A Novel JAVA Processor for Embedded Devices", *Lecture Notes in Computer Science*, Vol 3553/2005, Springer, August 2005, pp 112-121, (ISSN 0302-9743, ISBN 3-540-26969-X).

- TONG Jun** LIU, L H, TONG, J and LI, Ping, "Analysis and Optimization of CDMA Systems with Chip-Level Interleavers", *IEEE Journal on Selected Areas in Communications*, 24(1), January 2006, pp 141-150.
- UDDIN Mohammad Afsar** UDDIN, M A, CHAN, H P, TSUN, T O and CHAN, Y C, "Uneven Curing Induced Interfacial Delamination of UV Adhesive-Bonded Fiber Array in V-Groove for Photonic Packaging", *Journal of Lightwave Technology*, 24(3), March 2006, pp 1342-1349.
- WANG Daoxiang** DING, D Z , CHEN, R S , WANG, D X and YUNG, E K N, "The Application of the Generalized Product-type Method based on Bi-CG to Accelerate the Sparse-matrix/ Canonical Grid Method", *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, 18(5), September/October 2005, pp 383-397.
- WANG, D X, YUNG, E K N, CHEN, R S and LAU, P Y, "Scattering Characteristics of General Bi-Anisotropic Objects using Surface Integral Equations", *Radio Science*, 41(2), April 2006, published on web.
- WONG Hang** LUK, K M and WONG, H, "A New Wideband Unidirectional Antennas Element", *International Journal of Microwave and Optical Technology*, 1(1), June 2006, pp 35-44.
- WONG, M L, WONG, H and LUK, K M, "Small Circularly Polarised Patch Antenna", *Electronics Letters*, 41(16), 4 August 2005, pp 7-8.
- WONG, H, LAU, P Y, MAK, K M and LUK, K M, "Small Circularly Polarized Folded Patch Antenna", *Electronics Letters*, 41(25), December 2005, pp 1363-1364.
- LAU, K L, WONG, H and LUK, K M, "A Full-wavelength Circularly Polarized Slot Antenna", *IEEE Transactions on Antennas and Propagation*, 54(2, Part 2), February 2006, pp 741-743.
- MAK, K M, WONG, H and LUK, K M, "Wideband Low-profile Microstrip Antenna and Array", *Microwave and Optical Technology Letters*, 48(4), April 2006, pp 729-730.
- LAU, K L, WONG, H, MAK, C L, LUK, K M and LEE, K F, "A Vertical Patch Antenna for Dual-band Operation", *IEEE Antennas and Wireless Propagation Letters*, Vol 5, 2006, pp 95-97.
- WONG Ting Pong** LAI, H W, WONG, T P, MAK, C L and LUK, K M, "Wideband Dual-polarized Antenna Array on Finite Conducting Cylinder", *Microwave and Optical Technology Letters*, 48(5), May 2006, pp 862-866.
- SUN, S, MAN, K F, WANG, B Z and WONG, T P, "An Optimized Wideband Quarter-wave Patch Antenna Design", *IEEE Antennas and Wireless Propagation Letters*, Vol 4, 2005, pp 486-488.
- WU Boyi** ZHONG, H W, CHAN, Y C, ALAM, M O, WU, B Y and GUAN, J F, "Effect of Multiple Reflow Processes on the Reliability of Ball Grid Array (BGA) Solder Joints", *Journal of Alloys and Compounds*, Vol 414, April 2006, pp 123-130.

ALAM, M O, WU, B Y, CHAN, Y C and TU, K N, "High Electric Current Density Induced Interfacial Reactions in the Micro Ball Grid Array (μ BGA) Solder Joint", *Acta Materialia*, 54(3), February 2006, pp 613-621.

WU, B Y, CHAN, Y C, ALAM, M O and JILLEK, W, "Electrochemical Corrosion Study of Pb-Free Solders", *Journal of Materials Research*, 21(1), January 2006, pp 62-70.

WU Keying

LI, Ping, LIU, L H, WU, K Y and LEUNG, R W K, "Interleave-Division Multiple-Access", *IEEE Transactions on Wireless Communications*, 24(1), April 2006, pp 141-150.

WU Sitao

WU, S T and CHOW, T W S, "PR SOM: A New Visualization Method by Hybridizing Multi-Dimensional Scaling and Self-Organizing Map", *IEEE Transactions on Neural Networks*, 16(6), November 2005, pp 1362-1380.

WU, S T, CHOW, T W S and NG, K T, "Using Cellular Probabilistic Self-Organizing Map in Borrowing Channel Assignment for Patterned Traffic Load", *Neural Processing Letters*, Vol 23, February 2006, pp 71-88.

CHOW, T W S, RAHMAN, M K and WU, S T, "Content-based Image Retrieval by Using Tree-Structured Features and Multi-Layer Self-organizing Map", *Pattern Analysis and Applications*, Vol 9, May 2006, pp 1-20.

WU, S T, CHOW, T W S, NG, K T and TSANG, K F, "Improvement of Borrowing Channel Assignment for Patterned Traffic Load by Online Cellular Probabilistic Self-organizing Map", *Neural Computing and Applications*, 15(3-4), 3-4 June 2006, pp 298-309.

YANG Steven Shing Lung

YANG, S S L and LUK, K M, "Design of a Wide-band L-probe Patch Antenna for Pattern Reconfiguration or Diversity Applications", *IEEE Transactions on Antennas and Propagation*, 54(2, Part 1), February 2006, pp 433-438.

CHAIR, R, YANG, S S L, KISHK, A A, LEE, K F and LUK, K M, "Aperture Fed Wideband Circularly Polarized Rectangular Stair Shaped Dielectric Resonator Antenna", *IEEE Transactions on Antennas and Propagation*, 54(4), April 2006, pp 1350-1352.

YU Chi Sun

YU, C S, MOK, K T, CHAN, W S and LI, R C W, "Experimental Verification of the Possible Range of Linearization Using a Parallel Diode", *Microwave and Optical Technology Letters*, 46(3), 5 August 2005, pp 193-195.

YU, C S, CHAN, W S, LI, R C W, LO, W K and CHAN, S H, "2-GHz Quasi-balanced-mode GaAs FET Amplifier", *Microwave and Optical Technology Letters*, 46(6), 20 September 2005, pp 573-577.

YUM Tsz Yin

CHIU, L, YUM, T Y, CHIN, C H, XUE, Q and CHAN, C H, "High-efficiency Class-B Push-pull Amplifying Array for Microwave Transmitting Front End", *IEE Proceedings - Microwaves, Antennas and Propagation*, 153(1), February 2006, pp 25-28.

CHIU, L, YUM, T Y, XUE, Q and CHAN, C H, "A Wideband Compact Parallel-Strip 180o Wilkinson Power Divider for Push-Pull Circuitries", *IEEE Microwave and Wireless Components Letters*, 16(1), January 2006, pp 49-51.

CHIU, L, YUM, T Y, CHANG, W S, XUE, Q and CHAN, C H, "Retrodirective Array for RFID and Microwave Tracking Beacon Applications", *Microwave and Optical Technology Letters*, 48(2), February 2006, pp 409-411.

ZHAO Shuai

LI, J C, CHEN, Z Y, ZHAO, S, BAO, N K and CHUNG, P S, "Anti-Calculation and its application of Collins Formula in Wavefront Reconstruction", *Chinese Journal of Lasers 中國激光*, 32(11), November 2005, pp 1489-1494.

Conference papers

BAI Yukun

BAI, Y and CHIANG, K S, "Transmission Characteristics of Long-period Waveguide Grating Couplers", *Proceedings of the Regional Inter-University Postgraduate Electrical and Electronic Engineering Conference (RIUPEEEEC 2005)*, Hong Kong, PRC, July 2005, pp 270-275.

BAI, Y and CHIANG, K S, "Broadband Optical Coupler Based on Three Parallel Long-period Waveguide Gratings", *Proceedings of the 4th International Conference on Optical Communications and Networks (ICOON 2005)*, Bangkok, Thailand, December 2005, pp 219-222.

CHAN Frankie Kit Wing

SO, H C and CHAN, K W, "A Novel Iterative Approach for Complex Single-tone Frequency Estimation", *Proceedings of the 2006 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2006)*, Vol 3, Toulouse, France, May 2006, pp 77-80.

CHAN Kwok Hung

CHAN, K H, FUNG, L C, LEUNG, S W and SIU, Y M, "Effect of Internal Patch Antenna Ground Plane on SAR", *Proceedings of the 17th International Zurich Symposium on Electromagnetic Compatibility*, Singapore, March 2006, pp 513-516.

CHAN, K H, CHOW, K M, FUNG, L C, LEUNG, S W and SIU, Y M, "Crosstalk Study in Splitter PCB Design of CAT-5 Cabling Applications", *Proceedings of 2005 IEEE International Symposium on Electromagnetic Compatibility (EMC 2005)*, Chicago, Illinois, USA, 8-12 August 2005, pp 861-865.

CHAN Paul Ka Wai

CHAN, P K W, LEUNG, K S, CHUNG, H S H and HUI, S Y R, "Boundary Controller for Dynamic Voltage Restorers to Achieve Fast Dynamic Response", *Proceedings of the 2006 IEEE Applied Power Electronics Conference and Exposition (APEC 2006)*, Texas, USA, 19-23 March 2006, pp 1379-1384.

CHAN, P K W, CHUNG, H S H and HUI, S Y R, "Boundary Control of Dynamic Voltage Restorers in Voltage Harmonic Compensation", *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 795-801.

- CHAN Tak Ming** CHAN, T M, MAN, K F, TANG, K S and KWONG, S, "Multiobjective Optimization of Radio-to-fiber Repeater Placement Using a Jumping Gene Algorithm", *Proceedings of the 2005 IEEE International Conference on Industrial Technology (IEEE ICIT 2005)*, Hong Kong, PRC, 14-17 December 2005, pp 291-296.
- CHAN, T M, MAN, K F, TANG, K S and KWONG, S, "Optimization of Wireless Local Area Network in IC Factory Using A Jumping-gene paradigm", *Proceedings of the 2005 3rd IEEE International Conference on Industrial Informatics (INDIN 2005)*, Australia, 10-12 August 2005, pp 773-778.
- CHIU Chi Yuk** CHIU, C Y and CHAN, C H, "A Miniaturized PIFA Utilizing Via-Patch Loading", *Proceedings of the 2005 Asia-Pacific Microwave Conference (APMC 2005)*, Vol 1, Suzhou, PRC, 4-7 December 2005, pp 1-3, (3 pages).
- FAN Zhengping** CHEN, G R and FAN, Z P, "On Pinning Control of Scale-free Networks", *Proceedings of the 2nd International Conference "Physics and Control" (PhysCon 2005)*, St. Petersburg, Russia, 26 August 2005, pp 916-919, (Invited Paper).
- GAN Xiangchao** GAN, X C, LIEW, A W C and YAN, H, "Biclustering Gene Expression Data Based on a High Dimensional Geometric Method", *Proceedings of the 4th International Conference on Machine Learning and Cybernetics (ICMLC 2005)*, Vol 6, Guangzhou, PRC, August 2005, pp 3388-3393.
- GUO Qinghua** GUO, Q, LI, Ping and LOELIGER, H A, "Turbo Equalization Based on Factor Graphs", *Proceedings of the 2005 IEEE International Symposium on Information Theory (ISIT 2005)*, Australia, September 2005, pp 2021-2025.
- LOELIGER, H A, HU, J, KORL, S, GUO, Q and LI, Ping, "Gaussian Message Passing on Linear Models: An Update", *Proceedings of the 4th International Symposium on Turbo Codes & Related Topics*, Munich, Germany, 3-7 April 2006, published in CD Rom.
- HO Carl Ngai-man** HO, C N M and CHUNG, H S H, "Fast Transient Control of Single-Phase Dynamic Voltage Restorer (DVR) Without External DC Source", *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 2105-2111.
- HO, C N M, CHUNG, H S H and LEUNG, K S, "Fast Dynamic Control of PFC Using Boundary Control with a Second-Order Switching Surface", *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 2079-2085.
- HUI Ka Yan** HUI, K Y and LUK, K M, "A Patch Loaded Dielectric Resonator Antenna", *Proceedings of the IEEE International Region 10 Conference (IEEE Tencon 2005)*, Melbourne, Australia, November 2005, p 125.
- HUI, K Y and LUK, K M, "Circularly Polarized Dielectric Resonator Loaded Patch Antenna Array", *22nd Annual Review of Progress in Applied Computational Electromagnetics (ACES 2006)*, Miami, Florida, USA, March 2006.

- KWOK Hong Sze** KWOK, H S, TANG, K S and ZHONG, G Q, "Chaos-based Message Authentication Code for Remote Monitoring Applications", *Proceedings of the 2005 IEEE International Conference on Industrial Technology (IEEE ICIT 2005)*, City University of Hong Kong, Hong Kong, PRC, 14-17 December 2005, pp 231-236.
- LAI Hau Wah** LAI, H W and LUK, K M, "Wideband Stacked Patches Antenna Fed by a Meandering Probe", *Proceedings of the European Conference on Wireless Technology (ECWT 2005)*, Paris, France, 3-4 October 2005, pp 85-88.
- LAM Benson Shu-yan** LAM, S Y and YAN, H, "Cluster Validity for DNA Microarray Data Using a Geometrical Index", *Proceedings of the 4th International Conference on Machine Learning and Cybernetics (ICMLC 2005)*, Vol 6, Guangzhou, PRC, August 2005, pp 3333-3339.
- LEUNG Kelvin Ka Sing** CHAN, P K W, LEUNG, K S, CHUNG, H S H and HUI, S Y R, "Boundary Controller for Dynamic Voltage Restorers to Achieve Fast Dynamic Response", *Proceedings of the 2006 IEEE Applied Power Electronics Conference and Exposition (APEC 2006)*, Texas, USA, 19-23 March 2006, pp 1379-1384.
- HO, C N M, CHUNG, H S H and LEUNG, K S, "Fast Dynamic Control of PFC Using Boundary Control with a Second-Order Switching Surface", *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 2079-2085.
- LEUNG Raymond Wai Kong** YUE, G S, LEUNG, R W K, LI, Ping and WANG, X D, "Low Rate Concatenated Zigzag-Hadamard Codes", *Proceedings of the 2006 IEEE International Conference on Communications (ICC 2006)*, Istanbul, Turkey, June 2006, published in CD Rom.
- LI Bin** LI, B and LEUNG, K W, "Wideband Aperture Coupled Rectangular Dielectric Resonator Antenna", *Proceedings of the Progress in Electromagnetics Research Symposium 2005 (PIERS 2005)*, Hangzhou, PRC, 22-26 August 2005, p 33.
- LI, B and LEUNG, K W, "A Wideband Strip-Fed Rectangular Dielectric Resonator Antenna", 2005 IEEE Antennas and Propagation Society International Symposium Digest, Washington D C, USA, 3-8 July 2005.
- SO, K K, LEUNG, K W and LI, B, "Frequency Tuning and Bandwidth Enhancement of the Dielectric Resonator Antenna with a Parasitic Rectangular Slot", 2005 IEEE Antennas and Propagation Society International Symposium Digest, Washington D C, USA, 3-8 July 2005.
- LI Pei** LI, P, LAU, K L and LUK, K M, "Wideband Low-profile Microstrip Antenna with Folded and Shorted Patch", *2005 IEEE Antennas and Propagation Society International Symposium Digest*, Vol 2, Washington, USA, July 2005, pp 564-567.
- LI, P, LAU, K L and LUK, K M, "A Wideband Low-profile Microstrip Antenna with Folded and Shorted Patch", *2005 IEEE Antennas and Propagation Society International Symposium Digest*, Vol 2B, Washington, USA, 3-8 July 2005, pp 564-567 .

- LI Yi** LI, Y, KO, K T and CHEN, G R, "Design and Analysis of a New Controller for AQM Based on Smith Predictor", *Proceedings of the 4th DCDIS International Conference on Engineering Applications and Computational Algorithms*, Ontario, Canada, July 2005, pp 804-809, 05-161, published in CD Rom.
- LIU Ke** LIU, K and PUN, E Y B, "Er³⁺-Yb³⁺ Co-doped Waveguide Amplifiers Using Ion Exchange and Field-Assisted Annealing", 10th International Symposium on Microwave and Optical Technology (ISMOT 2005), Fukuoka, Japan, August 2005.
- LIU Lihai** WANG, P, LI, Ping and LIU, L H, "Power Allocation for Multiple Access Systems with Practical Coding and Iterative Multi-User Detection", *Proceedings of the 2006 IEEE International Conference on Communications (ICC 2006)*, Istanbul, Turkey, June 2006.
- WANG, P, LI, Ping and LIU, L H, "Optimized Power Allocation for Multiple Access Systems with Practical Coding and Iterative Multi-User Detection", *Proceedings of the 4th International Symposium on Turbo Codes & Related Topics*, Munich, Germany, 3-7 April 2006, published in CD Rom.
- LIU Ngai-hang** PAO, D C W and LIU, N H, "Parallel Tree Search: An Algorithmic Approach for Multi-field Packet Classification", *Proceedings of the 2006 IEEE Consumer Communications and Networking Conference (CCNC 2006)*, Las Vegas, Nevada, USA, January 2006, published in CD Rom.
- LIU Qing** CHIANG, K S, CHENG, S Y, CHAN, H P, LIU, Q, LOR, K P and CHOW, C K, "Realization of Polarization-insensitive Optical Polymer Waveguide Devices", *Digest of the 10th International Symposium on Microwave and Optical Technology (ISMOT 2005)*, Fukuoka, Japan, August 2005, p 56.
- CHIANG, K S, LOR, K P and LIU, Q, "UV-written Buried Polymer Long-period Waveguide Gratings", *Proceedings of the 30th Australian Conference on Optical Fibre Technology (BGPP/ACOFT 2005)*, Sydney, Australia, July 2005, pp 347-349.
- CHU, Y M, CHIANG, K S and LIU, Q, "Widely Tunable Optical Bandpass Filter Using Polymer Long-period Waveguide Gratings", *Proceedings of the 14th International Conference on Polymer Optical Fiber (POF 2005)*, Hong Kong, PRC, September 2005, pp 345-348.
- LIU, Q, CHIANG, K S and LOR, K P, "Design of Long-period Waveguide Grating Filter by Control of Waveguide Cladding Profile", *Proceedings of the 4th International Conference on Optical Communications and Networks (ICOON 2005)*, Bangkok, Thailand, December 2005, pp 204-207.
- SHUM Kam Man** SHUM, K M, CHAN, C H and LUK, K M, "Design of Small Antennas for Joypad Applications", *Proceedings of the 2006 IEEE International Workshop on Antenna Technology: Small Antennas and Novel Metamaterials (IWAT 2006)*, New York, USA, 6-8 March 2006, pp 168-171.

- SO Kwok Kan** SO, K K, LEUNG, K W and LI, B, “Frequency Tuning and Bandwidth Enhancement of the Dielectric Resonator Antenna with a Parasitic Rectangular Slot”, 2005 IEEE Antennas and Propagation Society International Symposium Digest, Washington D C, USA, 3-8 July 2005.
- SONG Shenghui** ZHANG, Q T, ZHAO, X Y, ZENG, Y X and SONG, S H, “Efficient Estimation of Fast Fading OFDM Channels”, 2006 IEEE International Conference on Communications (ICC 2006), Turkey, 11-15 June 2006.
- SONG, S H and ZHANG, Q T, “Dimension Diversity for the Enhancement of UWB Signals Detection”, 2006 IEEE 63rd Vehicular Technology Conference (VTC 2006), Melbourne, Australia, 7-10 May 2006.
- ZHANG, Q T and SONG, S H, “Model Selection and Estimation for Lognormal Sums in Pearson’s Framework”, 2006 IEEE 63rd Vehicular Technology Conference(VTC 2006), Spring, Melbourne, Australia, 7-10 May 2006.
- SONG Tingting** SONG, T and CHUNG, H S H, “Boundary Control of Boost Converters Using State-Energy Plane”, *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 1758-1764.
- SONG, T and CHUNG, H S H, “Boundary Control of PFC Using State-Energy Plane”, *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 3295-3301.
- SONG, T and CHUNG, H S H, “A High-Voltage DC-DC Converter with Low-Voltage Stress and Output Current Tripler”, *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 2999-3005.
- TAM Eugene Pok Wai** TAM, P W, HUI, S Y R and CHUNG, H S H, “An Analysis and Practical Implementation of a Dimmable Compact Fluorescent Lamp Ballast Circuit Without Integrated Circuit Control”, *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 2514-2521.
- YAN, W, TAM, P W and HUI, S Y R, “A Versatile Semi-empirical PSpice Fluorescent Lamp Model”, *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 1765-1771.
- HUI, S Y R, YAN, W, CHUNG, H S H, TAM, P W and HO, G, “Energy Efficiency Comparison of Dimmable Electromagnetic and Electronic Ballast Systems”, *Conference Record of the 40th IEEE-IAS (Industry Applications Society) Annual Meeting*, Vol 4, Hong Kong, PRC, 2-6 October 2005, pp 2775-2781.
- TAN Yi-yu** YAU, C H, TAN, Y Y and FONG, A S S, “A Novel Just-In-Time Compiler on an Embedded Object-Oriented Processor”, *Proceedings of the 5th International Conference on Computer and Information Technology (CIT 2005)*, Shanghai, PRC, September 2005, pp 771-775.

TONG Jun

TONG, J, LI, Ping and MA, X, "Superposition Coding with Peak-Power Limitation", *Proceedings of the 2006 IEEE International Conference on Communications (ICC 2006)*, Istanbul, Turkey, June 2006, published in CD Rom.

TONG, J and LI, Ping, "Iterative Decoding of Superposition Coding", *Proceedings of the 4th International Symposium on Turbo Codes & Related Topics*, Munich, Germany, 3-7 April 2006, published in CD Rom.

UDDIN Mohammad Afsar

UDDIN, M A, HO, W F and CHAN, H P, "Effect of Surface Structure on the Interfacial Adhesion of Polymeric Adhesive in the Fabrication of Optical Waveguide Devices", *Proceedings of the 56th Electronic Component and Technology Conference (ECTC 2006)*, San Diego, California, USA, 30 May-2 June 2006, pp 1663-1666.

WANG Daoxiang

FAN, Z H, CHEN, R S, YUNG, E K N and WANG, D X, "Inner-outer GMRES Algorithm for MLFMA Implementation", *2005 IEEE Antennas and Propagation Society International Symposium Digest*, Vol 4A, Washington, USA, 3-8 July 2005, pp 463-466.

WANG, D X, YUNG, E K N and CHEN, R S, "Theoretical Study of Hemispherical Helical Antenna Loaded with Dielectric Resonator", *2005 IEEE Antennas and Propagation Society International Symposium Digest*, Washington, USA, 3-8 July 2005, pp 499-502.

FENG, X P, CHEN, J Q, MO, L, WANG, D X, CHEN, R S and YUNG, E K N, "Fast Analysis of Microwave Integrated Circuits Using Preconditioned SMCG Method", *2005 IEEE Antennas and Propagation Society International Symposium Digest*, Vol 4B, Washington, USA, 3-8 July 2005, pp 205-208.

WANG, D X, YUNG, E K N and CHEN, R S, "Efficient Analysis of Multilayered Planar Periodic Structures using and MOL-FFT and GSM", *Proceedings of the Progress in Electromagnetic Research Symposium (PIERS 2005)*, Hangzhou, PRC, August 2005, p 177.

DING, D Z, YUNG, E K N, WANG, D X and CHEN, R S, "Efficient Analysis of Periodic Structures with Arbitrary Shape Using Volume-Surface Integral Equation Method", *Proceedings of the Progress in Electromagnetic Research Symposium (PIERS 2005)*, Hangzhou, PRC, August 2005, p 651.

WANG, D X, YUNG, E K N and CHEN, R S, "Integral Equation Solution Of Scattering By General Bi-isotropic Bodies", *2005 Asia-Pacific Microwave Conference (APMC 2005)*, Suzhou, PRC, December 2005.

WANG Peng

WANG, P, LI, Ping and LIU, L H, "Power Allocation for Multiple Access Systems with Practical Coding and Iterative Multi-User Detection", *Proceedings of the 2006 IEEE International Conference on Communications (ICC 2006)*, Istanbul, Turkey, June 2006.

WANG, P, LI, Ping and LIU, L H, "Optimized Power Allocation for Multiple Access Systems with Practical Coding and Iterative Multi-User Detection", *Proceedings of the 4th International Symposium on Turbo Codes & Related Topics*, Munich, Germany, 3-7 April 2006, published in CD Rom.

- WONG Ting Pong** LAU, K L, WONG, T P, LUK, K M and LEE, K F, "A Novel Design of Vertical Patch Antenna with Corrugated Ground Structure", *Proceedings of the 2005 Microwave and Millimetre-wave Symposium of China*, PRC, February 2006, pp 460-463.
- WONG, T P, LAU, K L, LUK, K M and LEE, K F, "Wideband Vertical Patch Antenna", *Proceedings of the 2005 Microwave and Millimeter-wave Symposium of China*, PRC, February 2006, pp 464-467.
- WU Boyi** ALAM, M O, CHAN, Y C and WU, B Y, "RoHS complaint Electronic Packaging Materials for China Market", 2005 6th International Conference on Electronics Packaging Technology (ICEPT), Shenzhen, PRC, 31 August 2005 - 2 September 2005.
- WU Keying** YUAN, X, WU, K Y and LI, Ping, "The Jointly Gaussian Approach to Iterative Detection in MIMO Systems", *Proceedings of the 2006 IEEE International Conference on Communications (ICC 2006)*, Istanbul, Turkey, June 2006, published in CD Rom.
- WU, K Y, LI, Ping and YUAN, J H, "A Quasi-Random Approach to Space-Time Codes", *Proceedings of the 4th International Symposium on Turbo Codes & Related Topics*, Munich, Germany, 3-7 April 2006, published in CD Rom.
- YANG Steven Shing Lung** YANG, S S L and LUK, K M, "A Wideband L-probe Fed Patch Antenna for Pattern Reconfiguration", *2005 IEEE Antennas and Propagation Society International Symposium Digest*, Vol 2B, Washington, USA, 3-8 July 2005, pp 581-584 .
- YANG, S S L, CHAIR, R, KISHK, A A, LEE, K F and LUK, K M, "Aperture Feed Elliptical Dielectric Resonator Antenna for Circularly Polarized Applications", *Proceedings of the 22nd Annual Review of Progress in Applied Computational Electromagnetics (ACES 2006)*, Miami, FL, USA, March 2006, pp 94-100.
- YANG, S S L and LUK, K M, "A Wideband Dual Polarization Patch Antenna with L-Probes for Pattern Reconfigurable Applications", *Proceedings of the 2005 Microwave & Millimeter-wave Symposium of China*, PRC, February 2006, pp 456-459.
- CHAIR, R, YANG, S S L, KISHK, A A, LEE, K F and LUK, K M, "Wide Axial Ratio Bandwidth Circular Polarized Dielectric Resonator Antenna", *Proceedings of the Progress in Electromagnetics Research Symposium 2006 (PIERS 2006)*, Cambridge, USA, March 2006, p 239.
- YUAN Xiaojun** YUAN, X, WU, K Y and LI, Ping, "The Jointly Gaussian Approach to Iterative Detection in MIMO Systems", *Proceedings of the 2006 IEEE International Conference on Communications (ICC 2006)*, Istanbul, Turkey, June 2006, published in CD Rom.
- YUM Tsz Yin** YUM, T Y, CHAN, C H and XUE, Q, "Linearization of Mixers Using A Reconfigurable Transistor Pair", *Digest of the 10th International Symposium on Microwave and Optical Technology (ISMOT 2005)*, Fukuoka, Japan, 22-25 August 2005, pp 201-204, (4 pages).

- ZHAO Shuai** CHUNG, P S, TAM, T F, ZHAO, S and CHEN, Z Y, “Applications of Dynamic Diffractive Optical Elements using a Programmable Spatial Light Modulator”, *Proceedings of the International Conference on Quantum Electronics 2005 and the Pacific Rim Conference on Lasers and Electro-Optics 2005 (IQEC/CLEO-PR 2005)*, Tokyo, Japan, 11-15 July 2005, pp 97-99, (Paper CTuN1-1).
- ZHAO, S and CHUNG, P S, “Digital Shearing Interferometer with a Liquid-Crystal Spatial Light Modulator”, *Proceedings of the 18th Annual Meeting of the IEEE Lasers & Electro-Optics Society (LEOS 2005)*, Sydney, Australia, 23-27 October 2005, pp 965-966.
- ZHENG Hongying** ZHENG, H Y , PENG, G , TSANG, P W M and WANG, W S Y, “Perception of Cantonese Level Tones Influenced by Context Position”, *Proceedings of the 3rd International Conference on Speech Prosody 2006*, Dresden, Germany, 2-5 May 2006, pp 77-81.
- ZHOU Bin** ZHOU, B, LAU, W H and CHUNG, H S H, “The Analysis of a Novel Dead-Time Generation and Compensation Method for 2-level PWM Topology”, *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 1543-1547.
- All other outputs**
- CHAN Samuel Sau Man** CHAN, S S M, Research on Operating and Integrating Inductive Elements in Dimmable Electronic Ballasts, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 30 August 2005.
- CHAN Tak Ming** CHAN, T M, A Generic Jumping-gene Paradigm: Concept, Verification and Applications, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 18 April 2006.
- CHAN, T M, Best Paper Award, Institute of Electrical and Electronics Engineers, IEEE International Conference on Industrial Technology (IEEE ICIT2005), Hong Kong, PRC, 14-17 December 2005.
- CHIU Chi Yuk** CHIU, C Y, Impedance Bandwidth Broadening Techniques for Small Patch Antennas, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 17 August 2005.
- CHIU Leung** CHIU, L, Championship, Institution of Engineering and Technology Hong Kong, Young Member Exhibition/ Conference 2006 (Postgraduate Section), Hong Kong, PRC, 2006.
- CHIU, L, High Performance Analog Adaptive Arrays for Modern Wireless Communications, Championship in the Postgraduate Section, Institution of Engineering and Technology Hong Kong Young Member Exhibition/Conference (YMEC2006), Hong Kong, PRC, 2006.
- FAN Zhengping** FAN, Z P, Complex Networks: From Topology to Dynamics, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 30 May 2006.

- ISLAM Md Nazrul** ISLAM, M N, Microstructural Analysis of Lead-free Solders with Under Bump Metallization, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 26 January 2006.
- LAI Hau Wah** LAI, H W, Wideband Meandering Probe-Fed Patch Antenna, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 8 August 2005.
- LAU Yeung-fan** LAU, Y F, Design and Analysis of Microwave Communication System Components: Resonator, Oscillator and Frequency Doubler, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.
- LEE Tze Kiu** LEE, T K, Study on Innovative Integrated Power Amplifier/Low Noise Amplifier/Switch for Wireless Application, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 10 August 2005.
- LEUNG Kelvin Ka Sing** LEUNG, K S, Research on Boundary Control with Second-Order Switching Surface for Power Electronic Systems, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 30 August 2005.
- LI Pei** LI, P, Novel Wideband Dual-frequency L-probe Fed Patch Antenna and Array, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 2 May 2006.
- LI, P, Novel Wideband Dual-frequency Patch Antenna Array for Dual-polarization Operation, Best Student Paper Award, Asia Pacific Microwave Conference (APMC 2005), PRC, 4-7 December 2005.
- LI Yi** LI, Y, A Control Theoretic Analysis of PID-Controller Based Active Queue Management Algorithms, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 12 December 2005.
- LIU Ke** LIU, K, Erbium-ytterbium Ions Co-doped Glass Waveguide Amplifiers for Optical Communications, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 25 August 2005.
- LIU Lihai** LIU, L H, Interleave Division Multiple Access, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 20 December 2005.
- LIU Ngai-hang** LIU, N H, Algorithmic Approaches for IP Address Lookup and Packet Classification, PhD Thesis, Department of Computer Engineering & Information Technology, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.
- LIU Qing** LIU, Q, Design and Fabrication of Long-Period Waveguide Gratings, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 15 August 2005.

- MA Eden Wai Man** MA, E W M, A Study on Clustering Technique in Data Mining Applications, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.
- MOK Ka Tsun** MOK, K T, Linearized Bipolar Junction Transistor Distributed Amplifier, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 26 September 2005.
- SHARIF Ahmed** SHARIF, A, A Study on Interfacial Interaction Behavior between Lead-free Solders and Electroless Nickel Metallization for Advanced Electronic Packaging, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 15 November 2005.
- SO Kwok Kan** SO, K K, Slot-Excited Dielectric Resonator Antenna, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 29 August 2005.
- SONG Shenghui** SONG, S H, System Design for Ultra Wideband Wireless Communications, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 17 November 2005.
- WU Keying** WU, K Y, Semi-random Forward Error Correction Codes and Space-time Codes, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 22 September 2005.
- YANG Steven Shing Lung** YANG, S S L, 2nd Runner-up, Institution of Engineering and Technology Hong Kong, Young Member Exhibition/ Conference 2006 (Postgraduate Section), Hong Kong, PRC, 2006.
- YANG, S S L, Design of Wideband Table-shaped Reconfigurable Antennas, Second Runner-up, Institution of Engineering and Technology Hong Kong Young Member Exhibition/Conference (YMEC2006), Hong Kong, PRC, 2006.
- YUM Tsz Yin** YUM, T Y, The Design of High Performance RF Mixers and Amplifiers for Wireless Communications Systems, PhD Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.
- YUM, T Y, Certificate of Excellence, Hong Kong Institution of Science, Young Scientist Award 2005, Hong Kong, PRC, 2005.

Journal publications

- CHAN Fiona Wan-yin** CHAN, F W Y and TSANG, S W F, "Quality Assurance of Concrete Foundation Elements using an Ultrasonic Evaluation Technique", *Insight - Non-Destructive Testing and Condition Monitoring*, 48(6), June 2006, pp 1-8.
- CHEN Cailian** GUAN, X P, FENG, G and CHEN, C L, "A Stabilization Method of Chaotic Systems Based on Full Delayed Feedback Controller Design", *Physics Letters A*, Vol 348, January 2006, pp 210-221.
- CHEN, C L, FENG, G and GUAN, X P, "Delay-dependent Stability Analysis and Control Synthesis for Discrete-time T-S Fuzzy Systems with Time Delays", *IEEE Transactions on Fuzzy Systems*, 13(5), October 2005, pp 630-643.
- CHEN, C L, FENG, G, SUN, D and GUAN, X P, " H_∞ Output Feedback Control of Discrete-time Fuzzy Systems with Application to Chaos Control", *IEEE Transactions on Fuzzy Systems*, 13(4), August 2005, pp 531-543.
- CHU Kwok-fai** HO, J K L, CHU, K F and MOK, A C K, "Minimizing Manufacturing Costs for Thin Injection Molded Plastic Components", *International Journal of Advanced Manufacturing Technology*, Vol 26, 2005, pp 517-526.
- DENG Hua** DENG, H, LI, H X and CHEN, G R, "Spectral-Approximation-Based Intelligent Modeling for Distributed Thermal Processes", *IEEE Transactions on Control Systems Technology*, 13(5), September 2005, pp 686-700.
- DENG, H and LI, H X, "On the New Method for the Control of Discrete Nonlinear Dynamic Systems Using Neural Networks", *IEEE Transactions on Neural Networks*, 17(2), March 2006, pp 526-529.
- LAM Ping Kit** LAM, P K, CHIN, K S and CHEUNG, W Y, "Product Specification Management in Collaborative NPD: An Investigation of Problems and Good Practices in Electronics Industry", *Asian Journal on Quality*, 7(1), 2006, pp 35-47.
- LAM, P K and CHIN, K S, "Identifying and Prioritizing Critical Success Factors for Conflict Management in Collaborative New Product Development", *Industrial Marketing Management*, Vol 34, November 2005, pp 761-772.
- LI Xiao Dong** LI, X D, HO, J K L and CHOW, T W S, "An Iterative Learning Control Method and Mathematical Model for Robotic Manipulation at Undesired Locations", *International Journal of Computer Integrated Manufacturing*, 18(6), September 2005, pp 480-486.
- LI, X D, HO, J K L and CHOW, T W S, "Approximation of Dynamical Time-variant Systems by Continuous-time Recurrent Neural Networks", *IEEE Transactions on Circuits and Systems Part II: Express Briefs*, 52(10), October 2005, pp 656-660.

LI, X D, CHOW, T W S and HO, J K L, "2-D System Theory Based Iterative Learning Control for Linear Continuous Systems with Time-delays", *IEEE Transactions on Circuits and Systems Part I: Regular Papers*, 52(7), July 2005, pp 1421-1430.

SHUM Po Wan

LIU, Z J, SHUM, P W and SHEN, Y G, "Surface Growth of (Ti,Al)N Thin Films on Smooth and Rough Substrates", *Thin Solid Films*, 496(2), 21 February 2006, pp 326-332.

WONG Francis Seung-yin

WONG, F S Y, CHUAH, K B and PATRI, K V, "Automated Inspection Process Planning: Algorithmic Inspection Feature Recognition, and Inspection Case Representation for CBR", *Robotics and Computer-Integrated Manufacturing*, 22(1), February 2006, pp 56-68.

MOK, A C K and WONG, F S Y, "Automatic Feature Recognition for Plastics Injection Moulded Part Design", *International Journal of Advanced Manufacturing Technology*, Vol 27, 2006, pp 1058-1070.

WONG Wing Ki

WONG, W K, CHEUNG, E H M and PATRI, K V, "Assessing the Growth Potential of High-technology Start-ups: An Exploratory Study from Hong Kong", *Journal of Small Business and Entrepreneurship*, 18(4), 2005, pp 453-470.

ZHANG Tiejun

FENG, G and ZHANG, T J, "Output Regulation of Discrete-time Piecewise-linear Systems with Application to Controlling Chaos", *IEEE Transactions on Circuits and Systems Part II: Express Briefs*, 53(4), April 2006, pp 249-253.

Conference papers**CHEN Cailian**

CHEN, C L, FENG, G and GUAN, X P, "H ∞ Discrete Time Fuzzy Control with Application to Chaos Control Based on Piecewise Lyapunov Functions", *Proceedings of the 16th World Congress of International Federal Association of Control (IFAC 2005)*, Prague, Czech Republic, 3-8 July 2005.

CHEN Huiying

CHEN, H Y and LI, Y F, "Enhanced Tracking Using Interaction Matrix", 3rd Regional Inter-University Postgraduate Electrical and Electronic Engineering Conference (RIUPEEEEC 2005), Hong Kong, PRC, 14-15 July 2005.

CHEN Meng

CHEN, M and FENG, G, "A Delay-dependent H ∞ Robust Filtering for Piecewise Linear Systems", *Proceedings of the 2006 American Control Conference*, Minneapolis, Minnesota, USA, 14-16 June 2006, pp 4460-4465.

CHEN, M, FENG, G, YIN, Y X and MA, H Y, "H ∞ Robust Filter Design of Fuzzy Dynamic Systems", *Proceedings of the 2005 IEEE International Conference on Information Acquisition*, Hong Kong, PRC, 27 June 2005 - 3 July 2006, pp 181-186.

CHEN, M, FENG, G, YIN, Y X and ZHANG, T J, "H ∞ Robust Filtering for Uncertain Piecewise Discrete Time Systems", *Proceedings of the 24th Chinese Control Conference*, Guang Zhou, PRC, 15-18 July 2005, pp 541-546.

- LEE Fion Choi-hung** LEE, F C H and CHAN, A H S, "Spatial Stimulus-response (S-R) Compatibility for Auditory Display in Diagonal Arrangement", *Proceedings of the 4th International Cyberspace Conference on Ergonomics (CybErg 2005)*, Johannesburg, South Africa, 15 September 2005 - 15 October 2005, p 368.
- LIU Long** HUNG, M Y Y, YIU, C Y, SHANG, H M and LIU, L, "Shearography-A Novel Non-Destructive Testing Technique for Concrete Strength Appraised", *Proceedings of the International Conference on Concrete Repair, Rehabilitation and Retrofitting (ICCRRR 2005)*, Cape Town, South Africa, 21-23 November 2005, pp 205-207.
- NG Annie Wai Yi** NG, A W Y and CHAN, A H S, "The Guessability Scores of the Pre-users for Traffic Signs", *Proceedings of the International Multiconference of Engineers and Computer Scientists 2006 (IMECS 2006)*, Hong Kong, PRC, 20-22 June 2006, pp 704-709.
- NG, A W Y and CHAN, A H S, "Cognitive Design Features on Traffic Signs", *Proceedings of the International Multiconference of Engineers and Computer Scientists 2006 (IMECS 2006)*, Hong Kong, PRC, 20-22 June 2006, pp 710-715.
- SHAO Xiaoyin** SHAO, X Y, SUN, D and MILLS, J K, "A New Motion Control Hardware Architecture with FPGA-based IC Design for Robotic Manipulators", *Proceedings of the 2006 IEEE International Conference on Robotics and Automation*, Orlando, Florida, USA, May 2006, pp 3520-3525.
- SHAO, X Y and SUN, D, "A FPGA-based Motion Control IC Design", *Proceedings of the IEEE International Conference on Industrial Technology (ICIT 2005)*, Hong Kong, PRC, 14-17 December 2005, pp 131-136.
- SUN, D, SHAO, X Y and FENG, G, "A Model-free Cross-coupled Control for Position Synchronization of Multi-axis Motions: Theory and Experiments", *Proceedings of the 16th World Congress of the International Federation of Automatic Control (IFAC '05)*, Prague, Czech Republic, 3-8 July 2005.
- SHAO, X Y and SUN, D, "Development of an FPGA-based Motion Control ASIC for Robotic Manipulators", *Proceedings of the 6th World Congress on Control and Automation*, Dalian, PRC, 21-23 June 2006, pp 8221-8225.
- WANG Wanbin** WANG, W B and TSE, P W T, "Remote Machine Monitoring through Internet and Mobile Communication Using XML", *Proceedings of the IDET/CIE 2005, ASME 2005 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Vol 1, Long Beach, California, USA, 24-28 September 2005, pp DETC2005-84280, (7 pages).
- WONG Shui-yee** CHIN, K S and WONG, S Y, "Self-evaluation Matrix for Organizational Innovation in Manufacturing Industries", *Proceedings of the 3rd ANQ (Asian Network for Quality) Congress and 19th Asia Quality Symposium*, Taipei, Taiwan, 20-23 September 2005, published in CD Rom.

WONG, S Y and CHIN, K S, "Measuring Organizational Innovation: A Study on the Electronic and Electrical Industry in the Greater Pearl River Delta (GPRD) in China", International Symposium Series on Tods and Methods of Competitive Engineering, Slovenia, 18-22 April 2006.

YANG Bo

YANG, B, LONG, CN, GUAN, XP and FENG, G, "Maximum Lifetime Rate Control and Scheduling in Multi-hop Wireless Networks", *Proceedings of the 2006 IEEE International Conference on Network, Sensing and Control*, Florida, USA, April 2006.

ZHANG Beiwei

ZHANG, B and LI, Y F, "Dynamic Calibration of a Structured Light System Via Planar Motion", *Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2005)*, Canada, August 2005, p 1361.

ZHANG Tiejun

CHEN, M, FENG, G, YIN, Y X and ZHANG, T J, " H_{∞} Robust Filtering for Uncertain Piecewise Discrete Time Systems", *Proceedings of the 24th Chinese Control Conference, Guang Zhou, PRC, 15-18 July 2005*, pp 541-546.

FENG, G and ZHANG, T J, "Output Tracking of Discrete-time Piecewise Linear Systems via Error Feedback", 6th World Congress on Intelligent Control and Automation, Dalian, PRC, 21-23 June 2006, pp 154-158.

ZHANG, T J and FENG, G, "Fuzzy Min-max Model Predictive Control Based on Piecewise Lyapunov Functions", *Proceedings of the 24th Chinese Control Conference, Guangzhou, PRC, 15-18 July 2005*, pp 1812-1818.

ZHAO Jian-bin

ZHAO, J B and FUNG, R Y K, "Crucial Factors for Effective Engineering Change Management: An Empirical Study", *Proceedings of the 36th CIE Conference on Computers and Industrial Engineering (ICC&IE)*, Taipei, Taiwan, 20-23 June 2006, pp 2269-2278.

All other outputs

CHAN Fiona Wan-yin

CHAN, F W Y, et al., Recommended Test Method of Ultrasonic Echo Sounding Testing Technique, the Diagnostic Testing Group (DTG) of the Materials Division of the Hong Kong Institution of Engineers (2006).

CHEN Cailian

CHEN, C L, Delay-dependent Robust Control for Nonlinear Time-delay Systems: Analysis, Synthesis and Application, PhD Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 10 April 2006.

DONG Chao

DONG, C, An Empirical Study of CSFs and the Development of the PDES for IS Projects in the Mainland of China, PhD Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 2 February 2006.

LAU Antonio Ka Wing

LAU, A K W, The Impact of Product Modularity and Supply Chain Integration on Product Performance, PhD Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 4 August 2005.

- NG Annie Wai Yi** NG, A W Y, The Best Student Paper Award, International MultiConference of Engineers and Computer Scientists 2006, 2006 IAENG International Workshop on Industrial Engineering (Session: Human Factors and Ergonomics), Cognitive Design Features on Traffic Signs, Hong Kong, PRC, 20-22 June 2006.
- SHUM Po Wan** SHUM, P W, Structure Characterization and Mechanical Properties of Industrial PVD-TiAlN Coatings, PhD Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 24 August 2005.
- WONG Wing Ki** WONG, W K, Entrepreneurial Factors affecting Incubatee Performance - A Hong Kong-based Study, PhD Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 28 November 2005.

DEPARTMENT OF MATHEMATICS

Journal publications

- CHEUNG Dennis Chin Wing** CHEUNG, D, CUCKER, F and HAUSER, R, "Tail Decay and Moment Estimates of a Condition Number for Random Linear Conic Systems", *SIAM Journal on Optimization*, 15(4), 2005, pp 1237-1261.
- DIAO Huaian** CUCKER, F, DIAO, H and WEI, Y, "Smoothed Analysis for Some Condition Numbers", *Numerical Linear Algebra with Applications*, Vol 13, 2006, pp 71-84.
- GUAN Xiucui** GUAN, X C and ZHANG, J J Z, "Inverse Constrained Bottleneck Problems on Networks", *Lecture Notes in Computer Science*, Vol 3483, Springer, 2005, pp 161-171, (Computational Science and Its Applications, O. Gervasi et al. (eds): ICCSA 2005).
- LI Xiaofeng** LI, X F and ZHANG, J J Z, "Stronger Kuhn-Tucker Type Conditions in Nonsmooth Multiobjective Optimization: Locally Lipschitz Case", *Journal of Optimization Theory and Applications*, Vol 127, 2005, pp 367-388.
- SUN Xiuxin** WYLIE, J J, ZHANG, Q and SUN, X X, "Fingering Instability in Particle Systems", *Journal of Computational and Applied Mathematics*, Vol 190, 2006, pp 408-423.
- WU Qiang** WU, Q, YING, Y M and ZHOU, D X, "Learning Rates of Least-square Regularized Regression", *Foundations of Computational Mathematics*, Vol 6, 2006, pp 171-192.
- WU, Q and ZHOU, D X, "Analysis of Support Vector Machine Classification", *Journal of Computational Analysis and Applications*, 8(2), 2006, pp 99-119.

Conference papers

- HUANG Yuexia** HUANG, Y and LU, Y, "A Finite Difference Mode Solver Based on Domain Decomposition", Integrated Photonics Research and Applications/Nanophotonics for Information Systems Topical Meetings on CD-Rom, The Optical Society of America, Washington, DC, USA, 2006.

- WU Qiang** WU, Q, YING, Y M and ZHOU, D X, "Learning Theory: From Regression to Classification", *Topics in Multivariate Approximation and Interpolation*, K Jetter et al (ed), Elsevier B V, Netherlands, 2006, pp 257-290.

All other outputs

- CHAN Chuen Lit** CHAN, C L, A Perturbation-incremental (PI) Method for Strongly Non-linear Oscillators and Systems of Delay Differential Equations, PhD Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 27 July 2005.
- LI Xiaofeng** LI, X F, Necessary Optimality Conditions in Terms of Convexificators for Nonsmooth Optimization Problems, PhD Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 28 March 2006.
- WEI Ting** WEI, T, Numerical Methods for Inverse Problems, PhD Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 22 August 2005.

DEPARTMENT OF PHYSICS AND MATERIALS SCIENCE

Scholarly books, monographs and chapters

- FU King Yu** FU, R K Y and CHU, P K H, "Plasma Modification of Materials", *Encyclopedia of Biomaterials and Biomedical Engineering*, G L Bowlin and G Wnek (eds), Dekkar Encyclopedias, Taylor and Francis, New York, USA, December 2005, pp 1-12, (DOI: 10.1081/E-EBBE-120007373, ISBN 0-8247-5562-6 paper; ISBN 0-8247-5497-2 electronic).

Journal publications

- BAO Suping** BAO, S P and TJONG, S C, "Fracture Characterization of High Density Polyethylene/Organoclay Nanocomposites Toughened with SEBS-g-MA", *Key Engineering Materials*, Vol 312, January 2006, pp 187-192.
- TJONG, S C, BAO, S P and LIANG, G D, "Polypropylene/Montmorillonite Nanocomposites Toughened with SEBS-g-MA: Structure-property Relationship", *Journal of Polymer Science Part B: Polymer Physics*, 43(21), September 2005, pp 3112-3126.
- CHAN Chit Yiu** BELLO, I, CHONG, Y M, LEUNG, K M, CHAN, C Y, MA, K L, ZHANG, W J, LEE, S T and LAYYOUS, A, "Cubic Boron Nitride Films for Industrial Applications", *Diamond and Related Materials*, Vol 14, December 2005, pp 1784-1790.
- CHONG, Y M, MA, K L, LEUNG, K M, CHAN, C Y, YE, Q, BELLO, I, ZHANG, W J and LEE, S T, "Synthesis and Mechanical Properties of Cubic Boron Nitride/Nanodiamond Composite Films", *Chemical Vapor Deposition*, 12(1), January 2006, pp 33-38.
- CHAN, C Y, EYHUSEN, S, MENG, X M, BELLO, I, LEE, S T, RONNING, C and HOFSSÄSS, H, "The Effect of Substrate Surface Roughness on the Nucleation of Cubic Boron Nitride Films", *Diamond and Related Materials*, Vol 15, January 2006, pp 55-60.

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Studying the Growth of Cubic Boron Nitride on Amorphous Tetrahedral Carbon Interlayers", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, September 2005, pp 16272-16277.

MACNAUGHTON, J B, MOEWES, A, WILKS, R G, ZHOU, X T, SHAM, T K, TANIGUCHI, T, WATANABE, K, CHAN, C Y, ZHANG, W J, BELLO, I, LEE, S T and HOFSSÄSS, H, "Electronic Structure of Boron Nitride Single Crystals and Films", *Physical Review B: Condensed Matter and Materials Physics*, Vol 72, November 2005, pp 195113-1 - 195113-8.

MENG, X M, ZHANG, W J, CHAN, C Y, LEE, C S, BELLO, I and LEE, S T, "Surface Microstructure Analysis of Cubic Boron Nitride Films by Transmission Electron Microscopy", *Applied Physics Letters*, Vol 88, January 2006, pp 031904-1 - 031904-3.

ZHANG, W J, CHAN, C Y, MENG, X M, FUNG, M K, BELLO, I, LIFSHITZ, Y, LEE, S T and JIANG, X, "The Mechanism of Chemical Vapor Deposition of Cubic Boron Nitride Films from Fluorine-containing Species", *Angewandte Chemie International Edition*, Vol 44, July 2005, pp 4749-4753.

ZHANG, W J, MENG, X M, CHAN, C Y, CHAN, K M, WU, Y, BELLO, I and LEE, S T, "Interfacial Study of Cubic Boron Nitride Films Deposited on Diamond", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, August 2005, pp 16005-16010.

ZHOU, X T, SHAM, T K, CHAN, C Y, ZHANG, W J, BELLO, I, LEE, S T, HEIGL, F, JÜRGENEN, A and HOFSSÄSS, S, "Preferable Orientation of Turbostratic BN Basal Planes from an X-ray Absorption Study", *Journal of Materials Research*, 21(1), January 2006, pp 147-152.

CHAN Mau-hing

CHENG, A Y S, YANG, J G and CHAN, M H, "High Efficiency Pulse Acetone Liquid Raman Laser Using DCM Fluorescent Dye as the Enhancement Medium", *Chinese Physics Letters*, 23(1), January 2006, pp 135-138.

CHENG, A Y S and CHAN, M H, "Acousto-optic Measurements of Tropospheric Nitrogen Dioxide Column Density by Solar Spectroscopy", *Applied Optics*, 44(26), September 2005, pp 5536-5543.

CHENG, A Y S, CHAN, M H and YANG, X, "Study of Aerosol Optical Thickness in Hong Kong, Validation, Results, and Dependence on Meteorological Parameters", *Atmospheric Environment*, Vol 40, June 2006, pp 4469-4477.

CHAN Wai Hung

CHAN, W H, XU, Z K, ZHAI, J W and CHEN, H H D, "Uncooled Tunable Pyroelectric Response of Antiferroelectric $\text{Pb}_{0.97}\text{La}_{0.02}(\text{Zr}_{0.65}\text{Sn}_{0.22}\text{Ti}_{0.13})\text{O}_3$ Perovskite", *Applied Physics Letters*, Vol 87, November 2005, p 192904-1.

XU, Z K, ZHAI, J W, CHAN, W H and CHEN, H H D, "Phase Transformation and Electric Field Tunable Pyroelectric Behavior of $\text{Pb}(\text{Nb,Zr,Sn,Ti})\text{O}_3$ and $(\text{Pb,L a})(\text{Zr,Sn,Ti})\text{O}_3$ Antiferroelectric Thin Films", *Applied Physics Letters*, Vol 88, May 2006, pp 132908-1.

CHEN Weiwei

CHEN, W W, YAO, H, TZANG, L C H, ZHU, J J, YANG, M and LEE, S T, "Silicon Nanowires for High-sensitivity Glucose Detection", *Applied Physics Letters*, Vol 88, May 2006, pp 213104-1–213104-3.

TEO, B K, CHEN, W W, SUN, X H, WANG, S D and LEE, S T, "Three-dimensional Etching Profiles and Surface Speciations (via Attenuated Total Reflection-fourier Transform Infrared Spectroscopy) of Silicon Nanowires in NH_4F -buffered HF Solutions: A Double Passivation Model", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, November 2005, pp 21716-21724.

CHEN Zhi Wen

CHEN, Z W, LAI, J K L and SHEK, C H, "Bulk-quantity SnO_2 Nanorods Synthesized from Simple Calcining Process based on Annealing Precursor Powders", *Journal of Non-Crystalline Solids*, 351(46-48), November 2005, pp 3619-3623.

CHEN, Z W, LAI, J K L and SHEK, C H, "Evolution of Electronic Structure and Spectral Evaluation in Single-crystal Mn_3O_4 Nanorods", *Journal of Chemical Physics*, 124(18), May 2006, pp 184707-1–184707-5.

CHEN, Z W, LAI, J K L and SHEK, C H, "Mystery of Porous SnO_2 Thin Film Formation by Pulsed Delivery", *Chemical Physics Letters*, 422(1-3), April 2006, pp 1-5.

CHEN, Z W, LAI, J K L and SHEK, C H, "Nucleation Mechanism and Microstructural Assessment of SnO_2 Nanowires Prepared by Pulsed Laser Deposition", *Physics Letters A*, 345(4-6), October 2005, pp 391-397.

CHEN, Z W, LAI, J K L and SHEK, C H, "Quantum Dot Formation and Dynamic Scaling Behaviour of SnO_2 Nanocrystals Induced by Pulsed Delivery", *Applied Physics Letters*, 88(3), January 2006, pp 033115-1–033115-3.

CHEN, Z W, LAI, J K L, SHEK, C H and CHEN, H, "Nanocrystals Formation and Fractal Microstructural Assessment in Au/Ge Bilayer Films upon Annealing", *Applied Surface Science*, 250(1-4), August 2005, pp 3-8.

CHEN, Z W, LAI, J K L, SHEK, C H and CHEN, H, "Nucleation and Growth of SnO_2 Nanocrystallites Prepared by Pulsed Laser Deposition", *Applied Physics A: Materials Science & Processing*, 81(5), October 2005, pp 959-962.

CHEN, Z W, LAI, J K L, SHEK, C H and CHEN, H, "Production of Amorphous Tin Oxide Thin Films and Microstructural Transformation Induced by Heat Treatment", *Applied Physics A: Materials Science & Processing*, 81(5), October 2005, pp 1073-1076.

CHEN, Z W, LAI, J K L and SHEK, C H, "Multifractal Spectra of Scanning Electron Microscopic Images of SnO_2 Thin Films Prepared by Pulsed Laser Deposition", *Physics Letters A*, 345(1-3), September 2005, pp 218-223.

CHEW Siew-ling

CHEW, S L, LEE, C S, LEE, S T, WANG, P F, HE, J, LI, W, PAN, J, ZHANG, X H and KWONG, H L, "Photoluminescence and Electroluminescence of a New Blue-Emitting Homoleptic Iridium Complex", *Applied Physics Letters*, Vol 88, February 2006, pp 093510-1-093513-3.

CHEW, S L, WANG, P F, HONG, Z R, TAO, S L, TANG, J X, LEE, C S, WONG, N B, KWONG, H L and LEE, S T, “High-performance Organic Red-light-emitting Devices Based on a Greenish-yellow-light-emitting Host and Long-wavelength Emitting Dopant”, *Applied Physics Letters*, Vol 88, May 2006, pp 183504-1-183504-3.

CHEW, S L, WANG, P F, WONG, O Y, HONG, Z R, HE, M X, ZHANG, R Q, KWONG, H L, TANG, J X, SUN, S L, LEE, C S and LEE, S T, “Photoluminescence and Electroluminescence of 3-Methyl-8-dimethylaminophenazine”, *Synthetic Metals*, Vol 156, February 2006, pp 185-189.

FAN Wenjie

GUO, C S, FAN, W J and ZHANG, R Q, “Influence of Sublayer Atoms on Si(100) Surface Reconstructions”, *Solid State Communications*, Vol 137, March 2006, pp 553-556.

GUO, C S, FAN, W J and ZHANG, R Q, “Spin Polarization of the Injected Carriers in C-doped BN Nanotubes”, *Solid State Communications*, Vol 137, February 2006, pp 246-248.

GUO, C S, FAN, W J, CHEN, Z H and ZHANG, R Q, “First-principles Study of Single-walled Armchair C_x(BN)_y Nanotubes”, *Solid State Communications*, 137(10), March 2006, pp 549-552.

FU King Yu

DI, Z F, CHU, P K H, ZHU, M, FU, R K Y, LUO, S H, SHAO, L, NASTASI, M, CHEN, P, ALFORD, T L, MAYER, J W, ZHANG, M, LIU, W L, SONG, Z T and LIN, C L, “Fabrication of Silicon – on – SiO₂/Diamondlike-Carbon Dual Insulator Using Ion Cutting and Mitigation of Self-Heating Effects”, *Applied Physics Letters*, 88(14), April 2006, pp 142108-1–142108-3.

DI, Z F, HUANG, A P, FU, R K Y, CHU, P K H, SHAO, L, HOCHBAUER, T, NASTASI, M, ZHANG, M, LIU, W L, SHEN, Q W, LUO, S H, SONG, Z T and LIN, C L, “Thermal Stability of Diamondlike Carbon Buried Layer Fabricated by Plasma Immersion Ion Implantation and Deposition in Silicon on Insulator”, *Journal of Applied Physics*, 98(5), September 2005, pp 053502-1–053502-5.

CHEN, X D, LING, C C, FUNG, S, BELING, C D, MEI, Y F, FU, R K Y, SIU, K G G and CHU, P K H, “Current Transport Studies of ZnO/p-Si Heterostructures Grown by Plasma Immersion Ion Implantation and Deposition”, *Applied Physics Letters*, 88(13), March 2006, pp 132104-1–132104-3.

FU, R K Y, CHEUNG, T L, MEI, Y F, SHEK, C H, SIU, K G G, CHU, P K H, YANG, W M, LENG, Y X, HUANG, Y X, TIAN, X B and YANG, S Q, “Surface Modification of Polymeric Materials by Plasma Immersion Ion Implantation”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237 (1-2), July 2005, pp 417-421.

FU, R K Y, CHU, P K H, TIAN, X B and YANG, S Q, “Ignition and Dynamics of High-Voltage Glow Discharge Plasma Implantation”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 242(1-2), September 2005, pp 275-278.

MEI, Y F, SIU, K G G, FU, R K Y, CHU, P K H, LI, Z M, ZHAI, J P, LIU, H J, TANG, Z K, LAI, C W and ONG, H C, "Visible Cathodoluminescence of 4 Å Single-walled Carbon Nanotubes", *Applied Physics Letters*, 87(21), November 2005, pp 213114-1 - 213114-3.

MEI, Y F, SIU, K G G, LI, Z M, FU, R K Y, TANG, Z K and CHU, P K H, "Polycrystalline Tubular Nanostructures of Germanium", *Journal of Crystal Growth*, 285(1-2), August 2005, pp 59-65.

TIAN, X B, WEI, C B, YANG, S Q, FU, R K Y and CHU, P K H, "Water Plasma Implantation / Oxidation of Magnesium Alloys for Corrosion Resistance", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 242(1-2), September 2005, pp 300-302.

WAN, G J, FU, R K Y, YANG, P, HO, J P Y, XIE, X, HUANG, N and CHU, P K H, "Surface Wettability of Nitrogen Plasma-implanted Silicon", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 242 (1-2), 2006, pp 296-299.

WAN, G J, YANG, P, FU, R K Y, YAO, Z Q, HUANG, N and CHU, P K H, "Improvement of Nitrogen Retained Dose Using Ammonia as a Precursor in Nitrogen Plasma Immersion Ion Implantation of Silicon", *Journal of Vacuum Science & Technology A: Vacuum Surfaces and Films*, 23(5), September-October 2005, pp 1346-1349.

ZHANG, W, CHU, P K H, JI, J H, ZHANG, Y H, FU, R K Y and YAN, Q, "Antibacterial Properties of Plasma-modified and Triclosan or Bronopol Coated Polyethylene", *Polymer*, 47(3), December 2005, pp 931-936.

ZHANG, W, CHU, P K H, JI, J H, ZHANG, Y H, LIU, X Y, FU, R K Y, HA, P C T and YAN, Q, "Plasma Surface Modification of Poly Vinyl Chloride for Improvement of Antibacterial Properties", *Biomaterials*, 27(1), January 2006, pp 44-51.

FU, R K Y, MEI, Y F, FU, M Y, LIU, X Y and CHU, P K H, "Thermal Stability of Metal-doped Diamond-like Carbon Fabricated by Dual Plasma Deposition", *Diamond and Related Materials*, 14(9), September 2005, pp 1489-1493.

LIU, X Y, ZHAO, X B, FU, R K Y, HO, J P Y, DING, C X and CHU, P K H, "Plasma-treated Nanostructured TiO₂ Surface Supporting Biomimetic Growth of Apatite", *Biomaterials*, 26(31), November 2005, pp 6143-6150.

MEI, Y F, SIU, K G G, FU, R K Y, CHU, P K H, LI, Z M and TANG, Z K, "Room-temperature Electrosynthesized ZnO Thin Film with Strong (002) Orientation and Its Optical Properties", *Applied Surface Science*, 252(8), February 2006, pp 2973-2977.

MEI, Y F, SIU, K G G, FU, R K Y, WONG, K W, CHU, P K H, LAI, C W and ONG, H C, "Determination of Nitrogen-related Defects in N-implanted ZnO Films by Dynamic Cathodoluminescence", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237(1-2), August 2005, pp 307-311.

QIU, T, WU, X L, FU, R K Y, FANG, J Y, YANG, L W, CHU, P K H and SIU, K G G, "Mo-containing Diamond-like Carbon Films with Blue Emission", *Journal of Crystal Growth*, 281(2-4), August 2005, pp 538-542.

FUNG Kin-lun

FUNG, K L and LI, R K Y, "A Study on the Fracture Characteristics of Rubber Toughened Poly(ethylene terephthalate) Blends", *Polymer Testing*, 24(7), October 2005, pp 863-872.

HA Peter Cao-thang

HA, P C T, MCKENZIE, D R, BILEK, M M M, DOYLE, E D, MCCULLOCH, D G and CHU, P K H, "Control of Stress and Delamination in Single and Multi-layer Carbon Thin Films Prepared by Cathodic Arc and RF Plasma Deposition and Implantation", *Surface and Coatings Technology*, 200(22-23), December 2005, pp 6405-6408.

HO, J P Y, POON, W Y, XIE, Y T, HA, P C T and CHU, P K H, "Anti-corrosion Properties of Nitrogen and Oxygen Plasma-implanted Nickel-titanium Shape Memory Alloy", *Solid State Phenomena*, Vol 107, October 2005, pp 111-114.

KWOK, S C H, HA, P C T, MCKENZIE, D R, BILEK, M M M and CHU, P K H, "Biocompatibility of Calcium and Phosphorus Doped Diamond-like Carbon Thin Films Synthesized by Plasma Immersion Ion Implantation and Deposition", *Diamond and Related Materials*, Vol 15, June 2006, pp 893-897.

ZHANG, W, CHU, P K H, JI, J H, ZHANG, Y H, LIU, X Y, FU, R K Y, HA, P C T and YAN, Q, "Plasma Surface Modification of Poly Vinyl Chloride for Improvement of Antibacterial Properties", *Biomaterials*, 27(1), January 2006, pp 44-51.

HO Joan Pui Yee

HO, J P Y, POON, W Y, XIE, Y T, HA, P C T and CHU, P K H, "Anti-corrosion Properties of Nitrogen and Oxygen Plasma-implanted Nickel-titanium Shape Memory Alloy", *Solid State Phenomena*, Vol 107, October 2005, pp 111-114.

KWOK, S C H, WAN, G J, HO, J P Y, CHU, P K H, MCKENZIE, D R and BILEK, M M M, "Anticoagulation Behavior of Phosphorus-doped Carbon (P_xC) Films Synthesized by Plasma Immersion Ion Implantation and Deposition", *New Diamond and Frontier Carbon Technology*, 16(1), March 2006, pp 39-48.

POON, W Y, HO, J P Y, LIU, X Y, CHUNG, C Y, CHU, P K H, YEUNG, K W K, LU, W W and CHEUNG, K M C, "Improvements of Anti-corrosion and Mechanical Properties of Niti Orthopedic Materials by Acetylene, Nitrogen, and Oxygen Plasma Immersion Ion Implantation", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237(1-2), July 2005, pp 411-416.

WAN, G J, FU, R K Y, YANG, P, HO, J P Y, XIE, X, HUANG, N and CHU, P K H, "Surface Wettability of Nitrogen Plasma-implanted Silicon", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 242(1-2), 2006, pp 296-299.

POON, W Y, HO, J P Y, LUK, C M Y, LIU, X Y, CHUNG, C Y, CHU, P K H, YEUNG, W K, LU, W W and CHEUNG, K M C, "Improvement on Corrosion Resistance of NiTi Orthopedic Materials by Carbon Plasma Immersion Ion Implantation", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 242(1-2), September 2005, pp 270-274.

YEUNG, K W K, POON, W Y, LIU, X Y, HO, J P Y, CHUNG, C Y, CHU, P K H, LU, W W, CHAN, D and CHEUNG, K M C, "Corrosion Resistance, Surface Mechanical Properties, and Cytocompatibility of Plasma Immersion Ion Implantation - Treated Nickel-Titanium Shape Memory Alloys", *Journal of Biomedical Materials Research Part A*, 75(2), August 2005, pp 256-267.

YIP, C W Y, NIKEZIC, D, HO, J P Y and YU, K N, "Chemical Etching Characteristics for Cellulose Nitrate", *Materials Chemistry and Physics*, Vol 95, February 2006, pp 307-312.

LIU, X Y, ZHAO, X B, FU, R K Y, HO, J P Y, DING, C X and CHU, P K H, "Plasma-treated Nanostructured TiO₂ Surface Supporting Biomimetic Growth of Apatite", *Biomaterials*, 26(31), November 2005, pp 6143-6150.

POON, W Y, HO, J P Y, LIU, X Y, CHUNG, C Y, CHU, P K H, YEUNG, K W K, LU, W W and CHEUNG, K M C, "Formation of Titanium Nitride Barrier Layer in Nickel-titanium Shape Memory Alloys by Nitrogen Plasma Immersion Ion Implantation for Better Corrosion Resistance", *Thin Solid Films*, 488(1-2), September 2005, pp 20-25.

KWOK Chung Hang

KWOK, S C H, HA, P C T, MCKENZIE, D R, BILEK, M M M and CHU, P K H, "Biocompatibility of Calcium and Phosphorus Doped Diamond-like Carbon Thin Films Synthesized by Plasma Immersion Ion Implantation and Deposition", *Diamond and Related Materials*, Vol 15, June 2006, pp 893-897.

KWOK, S C H, WAN, G J, HO, J P Y, CHU, P K H, MCKENZIE, D R and BILEK, M M M, "Anticoagulation Behavior of Phosphorus-doped Carbon (P_xC) Films Synthesized by Plasma Immersion Ion Implantation and Deposition", *New Diamond and Frontier Carbon Technology*, 16(1), March 2006, pp 39-48.

LAW Chi Man

LAW, C M T, WU, C M L, YU, D Q, WANG, L and LAI, J K L, "Microstructure, Solderability, and Growth of Intermetallic Compounds of Sn-Ag-Cu-RE Lead-Free Solder Alloys", *Journal of Electronic Materials*, 35(1), January 2006, pp 89-93.

LEE Cheng Hao

LIFSHITZ, Y, LEE, C H, WU, Y, ZHANG, W J, BELLO, I and LEE, S T, "Role of Nucleation in Nanodiamond Film Growth", *Applied Physics Letters*, Vol 88, June 2006, pp 243114-1 - 243114-3.

LI Chi Pui

LI, C P, TEO, B K, SUN, X H, WONG, N B and LEE, S T, "Hydrocarbon and Carbon Nanostructures Produced by Sonochemical Reactions of Organic Solvents on Hydrogen-passivated Silicon Nanowires under Ambient Conditions", *Chemistry of Materials*, 17(23), November 2005, pp 5780-5788.

- LI Yanqing** LI, Y Q, ZAPIEN, J A, SHAN, Y, LIU, Y K and LEE, S T, “Manganese Doping and Optical Properties of ZnS Nanoribbons by Postannealing”, *Applied Physics Letters*, Vol 88, January 2006, pp 013115-1 – 013115-3.
- LI, Y Q, ZOU, K, SHAN, Y, ZAPIEN, J A and LEE, S T, “Catalyst-assisted Formation of Nanocantilever Arrays on ZnS Nanoribbons by Post-annealing Treatment”, *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 110, February 2006, pp 6759-6762.
- LIN Chensheng** LIN, C S, ZHANG, R Q, LEE, S T, ELSTNER, M, FRAUENHEIM, T and WAN, L J, “Simulation of Water Cluster Assembly on a Graphite Surface”, *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, July 2005, pp 14183-14188.
- SUN, S L, LIN, C S, ZHANG, R Q, LEE, C S and LEE, S T, “Calcium/Poly (9, 9-Dioctylfluorene) Interaction: A Theoretical Study”, *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, July 2005, pp 12868-12873.
- LIU Xiang-mei** LIU, X M, WU, S L, CHU, P K H, ZHENG, J and LI, S L, “Characteristics of Nano Ti-doped SnO₂ Powders Prepared by Sol-gel Method”, *Materials Science and Engineering A: Structural Materials: Properties, Microstructure and Processing*, Vol 426, June 2006, pp 274-277.
- LO Kin-ho** LAI, J K L, LO, K H, SHEK, C H and LI, D J, “Magnetic and Ageing Behaviour of 7MoPLUS and the Viability of Monitoring Ferrite Decomposition Using AC Magnetic Susceptibility”, *Materials Science and Engineering A: Structural Materials: Properties, Microstructure and Processing*, 406(1-2), October 2005, pp 110-118.
- MEI Yongfeng** FU, R K Y, MEI, Y F, FU, M Y, LIU, X Y and CHU, P K H, “Thermal Stability of Metal-doped Diamond-like Carbon Fabricated by Dual Plasma Deposition”, *Diamond and Related Materials*, 14(9), September 2005, pp 1489-1493.
- MEI, Y F, SIU, K G G, FU, R K Y, CHU, P K H, LI, Z M and TANG, Z K, “Room-temperature Electrosynthesized ZnO Thin Film with Strong (002) Orientation and Its Optical Properties”, *Applied Surface Science*, 252(8), February 2006, pp 2973-2977.
- MEI, Y F, SIU, K G G, FU, R K Y, WONG, K W, CHU, P K H, LAI, C W and ONG, H C, “Determination of Nitrogen-related Defects in N-implanted ZnO Films by Dynamic Cathodoluminescence”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237(1-2), August 2005, pp 307-311.
- QIU, T, WU, X L, MEI, Y F, CHU, P K H and SIU, K G G, “Self-organized Synthesis of Silver Dendritic Nanostructures via an Electroless Metal Deposition Method”, *Applied Physics A: Materials Science & Processing*, 81(4), September 2005, pp 669-671.
- CHEN, X D, LING, C C, FUNG, S, BELING, C D, MEI, Y F, FU, R K Y, SIU, K G G and CHU, P K H, “Current Transport Studies of ZnO/p-Si Heterostructures Grown by Plasma Immersion Ion Implantation and Deposition”, *Applied Physics Letters*, 88(13), March 2006, pp 132104-1–132104-3.

FU, R K Y, CHEUNG, T L, MEI, Y F, SHEK, C H, SIU, K G G, CHU, P K H, YANG, W M, LENG, Y X, HUANG, Y X, TIAN, X B and YANG, S Q, "Surface Modification of Polymeric Materials by Plasma Immersion Ion Implantation", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237(1-2), July 2005, pp 417-421.

MEI, Y F, SIU, K G G, FU, R K Y, CHU, P K H, LI, Z M, ZHAI, J P, LIU, H J, TANG, Z K, LAI, C W and ONG, H C, "Visible Cathodoluminescence of 4 Å Single-walled Carbon Nanotubes", *Applied Physics Letters*, 87(21), November 2005, pp 213114-1 - 213114-3.

MEI, Y F, SIU, K G G, LI, Z M, FU, R K Y, TANG, Z K and CHU, P K H, "Polycrystalline Tubular Nanostructures of Germanium", *Journal of Crystal Growth*, 285(1-2), August 2005, pp 59-65.

QIU, T, WU, X L, WAN, G J, MEI, Y F, SIU, K G G and CHU, P K H, "Self-Organized Synthesis of Micrometer Scale Silver Disks by Electroless Metal Deposition on Si-Incorporated Diamond-Like Carbon Films", *Journal of Crystal Growth*, 284(3-4), September 2005, pp 470-476.

QIU, T, WU, X L, XIE, Y T, MEI, Y F, SIU, K G G and CHU, P K H, "Self-Assembled Growth and Blue Emission of a SiO_x-Capped (x = 0.5-0.8) Silicon Nanowire Array", *Nanotechnology*, 16(10), August 2005, pp 2222-2226.

PAU Chung-yin

CHENG, A Y S, PAU, C Y, POON, W S and WONG, G K C, "The Correlation of Midline Shifts of Human Brain with Large Brain Haematoma Using a Finite Element Approach", *Acta Neurochirurgica*, Vol 95, October 2005, pp 363-365.

POON Ray Wai Yip

HO, J P Y, POON, W Y, XIE, Y T, HA, P C T and CHU, P K H, "Anti-corrosion Properties of Nitrogen and Oxygen Plasma-implanted Nickel-titanium Shape Memory Alloy", *Solid State Phenomena*, Vol 107, October 2005, pp 111-114.

POON, W Y, HO, J P Y, LIU, X Y, CHUNG, C Y, CHU, P K H, YEUNG, K W K, LU, W W and CHEUNG, K M C, "Improvements of Anti-corrosion and Mechanical Properties of Niti Orthopedic Materials by Acetylene, Nitrogen, and Oxygen Plasma Immersion Ion Implantation", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237(1-2), July 2005, pp 411-416.

POON, W Y, HO, J P Y, LUK, C M Y, LIU, X Y, CHUNG, C Y, CHU, P K H, YEUNG, W K, LU, W W and CHEUNG, K M C, "Improvement on Corrosion Resistance of NiTi Orthopedic Materials by Carbon Plasma Immersion Ion Implantation", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 242(1-2), September 2005, pp 270-274.

YEUNG, K W K, POON, W Y, LIU, X Y, HO, J P Y, CHUNG, C Y, CHU, P K H, LU, W W, CHAN, D and CHEUNG, K M C, "Corrosion Resistance, Surface Mechanical Properties, and Cytocompatibility of Plasma Immersion Ion Implantation - Treated Nickel-Titanium Shape Memory Alloys", *Journal of Biomedical Materials Research Part A*, 75(2), August 2005, pp 256-267.

POON, W Y, HO, J P Y, LIU, X Y, CHUNG, C Y, CHU, P K H, YEUNG, K W K, LU, W W and CHEUNG, K M C, "Formation of Titanium Nitride Barrier Layer in Nickel-titanium Shape Memory Alloys by Nitrogen Plasma Immersion Ion Implantation for Better Corrosion Resistance", *Thin Solid Films*, 488(1-2), September 2005, pp 20-25.

SUN Shiling

CHEW, S L, WANG, P F, WONG, O Y, HONG, Z R, HE, M X, ZHANG, R Q, KWONG, H L, TANG, J X, SUN, S L, LEE, C S and LEE, S T, "Photoluminescence and Electroluminescence of 3-Methyl-8-dimethylaminophenazine", *Synthetic Metals*, Vol 156, February 2006, pp 185-189.

NG, M F, SUN, S L and ZHANG, R Q, "Potential Visible Light Absorption in 3-Å-Diam Carbon Nanotubes", *Physical Review B: Condensed Matter and Materials Physics*, Vol 72, July 2005, pp 033406-1 - 033406-4.

SUN, S L, LIN, C S, ZHANG, R Q, LEE, C S and LEE, S T, "Calcium/Poly (9, 9-Dioctylfluorene) Interaction: A Theoretical Study", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, July 2005, pp 12868-12873.

TAM Chi Yan

TAM, C Y and SHEK, C H, "Effects of Alloying on Oxidation of Cu-based Bulk Metallic Glasses", *Journal of Materials Research*, 20(10), October 2005, pp 2647-2653.

TAM Kam Fai

TJONG, S C and TAM, K F, "Mechanical and Thermal Expansion Behavior of Hipped Aluminum-TiB₂ Composites", *Materials Chemistry and Physics*, 97(1), May 2006, pp 91-97.

TANG Jian Xin

CHEW, S L, WANG, P F, HONG, Z R, TAO, S L, TANG, J X, LEE, C S, WONG, N B, KWONG, H L and LEE, S T, "High-performance Organic Red-light-emitting Devices Based on a Greenish-yellow-light-emitting Host and Long-wavelength Emitting Dopant", *Applied Physics Letters*, Vol 88, May 2006, pp 183504-1-183504-3.

CHEW, S L, WANG, P F, WONG, O Y, HONG, Z R, HE, M X, ZHANG, R Q, KWONG, H L, TANG, J X, SUN, S L, LEE, C S and LEE, S T, "Photoluminescence and Electroluminescence of 3-Methyl-8-dimethylaminophenazine", *Synthetic Metals*, Vol 156, February 2006, pp 185-189.

TANG, J X, LAU, K M, LEE, C S and LEE, S T, "Substrate Effects on the Electronic Properties of an Organic/Organic Heterojunction", *Applied Physics Letters*, Vol 88, June 2006, pp 232103-1 – 232103-3.

TANG, J X, LEE, C S and LEE, S T, "Chemical Bonding and Electronic Structures at Magnesium/Copper Phthalocyanine Interfaces", *Applied Surface Science*, Vol 252, March 2006, pp 3948-3952.

TANG, J X, LEE, C S and LEE, S T, "Electronegativity Model for Barrier Formation at Metal/Organic Interfaces", *Applied Physics Letters*, Vol 87, December 2005, pp 252110-1 – 252110-3.

- TONG Shi Wun** TONG, S W, LAU, K M, SUN, H Y, FUNG, M K, LEE, C S, LIFSHITZ, Y and LEE, S T, "Ultraviolet Photoelectron Spectroscopy Investigation of Interface Formation in an Indium-tin Oxide/Fluorocarbon/Organic Semiconductor Contact", *Applied Surface Science*, Vol 252, March 2006, pp 3806-3811.
- WONG, F L, SUN, H Y, TONG, S W, CHAN, M Y, LEE, C S and LEE, S T, "Performance Enhancement of Organic Light-emitting Diode by Heat Treatment", *Journal of Crystal Growth*, Vol 288, February 2006, pp 110-114.
- WANG Suidong** TEO, B K, CHEN, W W, SUN, X H, WANG, S D and LEE, S T, "Three-dimensional Etching Profiles and Surface Speciations (via Attenuated Total Reflection-fourier Transform Infrared Spectroscopy) of Silicon Nanowires in NH₄F-buffered HF Solutions: A Double Passivation Model", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, November 2005, pp 21716-21724.
- WONG Chi Lok** WONG, C L, HO, H P, CHAN, K S and WU, S Y, "Application of Surface Plasmon Resonance Sensing to Studying Elastohydrodynamic Lubricant Films", *Applied Optics*, 44(23), August 2005, p 4830.
- WONG, C L, HO, H P, CHAN, K S, WU, S Y and LIN, C L, "Application of Spectral Surface Plasmon Resonance to Gas Pressure Sensing", *Optical Engineering*, 44(12), December 2005, pp 124403-124408.
- WONG Fu Lung** WONG, F L, SUN, H Y, TONG, S W, CHAN, M Y, LEE, C S and LEE, S T, "Performance Enhancement of Organic Light-emitting Diode by Heat Treatment", *Journal of Crystal Growth*, Vol 288, February 2006, pp 110-114.
- WONG Lap Mho** WONG, M L M and CHAN, J C L, "Tropical Cyclone Motion in Response to Land Surface Friction", *Journal of the Atmospheric Sciences*, Vol 63, April 2006, pp 1324-1337.
- WONG Wing Kwong** TERNYAK, O, AKHVLEDIANI, R, HOFFMAN, A, WONG, W K, LEE, S T, LIFSHITZ, Y, DAREN, S and CHEIFETZ, E, "Field Electron Emission from Undoped, Continuous, Submicron-thick Diamond Films", *Journal of Applied Physics*, Vol 98, December 2005, pp 123522-1 – 123522-6.
- WU Shuilin** LIU, X M, WU, S L, CHU, P K H, ZHENG, J and LI, S L, "Characteristics of Nano Ti-doped SnO₂ Powders Prepared by Sol-gel Method", *Materials Science and Engineering A: Structural Materials: Properties, Microstructure and Processing*, Vol 426, June 2006, pp 274-277.
- YANG Yan** SHAO, Y P and YANG, Y, "A Scheme for Drag Partition over Rough Surfaces", *Atmospheric Environment*, Vol 39, September 2005, pp 7351-7361.
- YANG, Y and SHAO, Y P, "A Scheme for Scalar Exchange in the Urban Boundary Layer", *Boundary-layer Meteorology*, 2006, (DOI 10.1007/s10546-005-9033-5).
- YANG, Y and SHAO, Y P, "Drag Partition and its Possible Implications for Dust Emission", *Water, Air and Soil Pollution*, Vol 5, August 2005, pp 251-259.

YAO Yuan

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Studying the Growth of Cubic Boron Nitride on Amorphous Tetrahedral Carbon Interlayers", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, September 2005, pp 16272-16277.

YAO, Y, LIAO, M Y, KÖHLER, T, FRAUENHEIM, T, ZHANG, R Q, WANG, Z G, LIFSHITZ, Y and LEE, S T, "Diamond Nucleation by Energetic Pure Carbon Bombardment", *Physical Review B: Condensed Matter and Materials Physics*, Vol 72, July 2005, pp 035402-1 – 035402-5.

YAO, Y, LIAO, M Y, WANG, Z G, LIFSHITZ, Y and LEE, S T, "Nucleation of Diamond by Pure Carbon Ion Bombardment - A Transmission Electron Microscopy Study", *Applied Physics Letters*, Vol 87, August 2005, pp 063103-1 – 063103-3.

YIP Celia Wai Yi

NIKEZIC, D, KOSTIC, D, YIP, C W Y and YU, K N, "Comparison among Different Models of Track Growth and Experimental Data", *Radiation Measurements*, Vol 41, March 2006, pp 253-256.

NIKEZIC, D, NG, F M F, YIP, C W Y and YU, K N, "Application of the Ray Tracing Method in Studying α Tracks in SSMTDs", *Radiation Measurements*, Vol 40, November 2005, pp 375-379.

YIP, C W Y, NIKEZIC, D, HO, J P Y and YU, K N, "Chemical Etching Characteristics for Cellulose Nitrate", *Materials Chemistry and Physics*, Vol 95, February 2006, pp 307-312.

ZHAO Hongxia

ZHAO, H X and LI, R K Y, "A Study on the Photo-degradation of Zinc Oxide (ZnO) Filled Polypropylene Nanocomposites", *Polymer*, 47(9), April 2006, pp 3207-3217.

ZHAO, H X and LI, R K Y, "Crystallization, Mechanical, and Fracture Behaviors of Spherical Alumina-filled Polypropylene Nanocomposites", *Journal of Polymer Science Part B: Polymer Physics*, 43(24), December 2005, pp 3652-3664.

ZHAO, H X and LI, R K Y, "Fracture Behaviour of Poly(ether ether ketone) Films with Different Thicknesses", *Mechanics of Materials*, 38(1-2), February 2006, pp 100-110.

ZHOU Wen

ZHOU, W and CHAN, J C L, "Intraseasonal Oscillations and the South China Sea Summer Monsoon Onset", *International Journal of Climatology*, Vol 25, October 2005, pp 1585-1609.

ZHOU, W, CHAN, J C L and LI, C Y, "South China Sea Summer Monsoon Onset in Relation to the Off-equatorial ITCZ", *Advances in Atmospheric Sciences*, 22(5), September 2005, pp 665-676.

Conference papers**BAO Suping**

BAO, S P and TJONG, S C, "Fracture Characterization of High Density Polyethylene/ Organoclay Nanocomposites Toughened with SEBS-g-MA", International Workshop on Fracture of Materials: Moving Forwards, Sydney, Australia, 23-25 January 2006.

- CHAN Chit Yiu** ZHANG, W J, MA, K L, MENG, X M, CHAN, C Y, BELLO, I and LEE, S T, “Interfacial Study of Cubic Boron Nitride Films Deposited on Silicon and Diamond Substrates”, 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.
- LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, “Deposition of Adherent cBN Films on Nano-structured Carbon Interlayer at Elevated Temperature by Magnetron Sputtering”, 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.
- CHAN Mau-hing** CHENG, A Y S and CHAN, M H, “Airborne Solar Spectroscopic Measurements of Nitrogen Dioxide Column Density beneath the Boundary Layer”, *Proceedings of the SPIE 12th International Symposium on Remote Sensing – Remote Sensing of Clouds and the Atmosphere X*, Vol 5979, SPIE International Society for Optical Engineering, Burges, Belgium, 19-22 September 2005, pp 242-251.
- CHAN Wai Hung** CHAN, W H, XU, Z K, ZHAI, J W, CHEN, H H D and COLLA, E V, “The Tunability of PLZST Uncooled Pyroelectric Sensor”, MC7: Functional Materials for the 21st Century, Edinburgh, United Kingdom, 5-8 July 2005.
- CHEN Zhi Wen** CHEN, Z W, LAI, J K L and SHEK, C H, “Microstructural Changes and Fractal Ge Nanocrystallites in Polycrystalline Au/Amorphous Ge Thin Bilayer Films Upon Annealing”, 12th International Symposium on Metastable and Nano Materials (ISMANAM), Paris, France, 3-7 July 2005.
- DENG Haixia** DENG, H X, CHUNG, C Y, XIE, Y T, CHU, P K H, WONG, K W, ZHANG, Y and TANG, Z K, “Improvement of Electrochemical Performance of Si Thin Film Anode by Rare-Earth La PIII Technique”, *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 171, (Paper 5-10).
- FU King Yu** FU, R K Y and CHU, P K H, “Layer Transfer for the Formation of SOI Structures Using Plasma Hydrogenation”, *Proceedings of the 6th International Workshop on Junction Technology (IWJT)*, Shanghai, PRC, 15-16 May 2006, pp 204-209, (Paper 5.2).
- FU, R K Y and CHU, P K H, “Novel Microelectronic Structure Fabrication, Hydrogenation-induced Layer Transfer, and Enhancement of Surface Bioactivity of Silicon Using Plasma Immersion Ion Implantation”, *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 59, (Paper I-7).
- CHU, P K H, LIU, X Y, FU, R K Y, HO, J P Y, ZHAO, X B and DING, C X, “Improvement in Bioactivity of Plasma Sprayed TiO₂ Coating with Nanostructured Surface”, *Proceedings of the 3rd International Conference on Materials for Advanced Technologies (ICMAT 2005) and International Union of Materials Research Societies 9th International Conference on Advanced Materials (IUMRS-ICAM 2005)*, Singapore, 3-8 July 2005, (Paper A-6-P08).

CHU, P K H, LIU, X Y, FU, R K Y, HO, J P Y and DING, C X, "Bone-like Apatite Formation on Hydrogenated Amorphous Silicon", *Proceedings of the 3rd International Conference on Materials for Advanced Technologies (ICMAT 2005) and International Union of Materials Research Societies 9th International Conference on Advanced Materials (IUMRS-ICAM 2005)*, Singapore, 3-8 July 2005, (Paper A-4-OR13).

CUI, J T, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, "Plasma Distribution in the Slender Bore Excited by Coaxial RF Electrode", *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 122, (Paper P2-14).

CUI, J T, TIAN, X B, YANG, S Q, HU, T, FU, R K Y and CHU, P K H, "Inner Coating of Slender Tube by RF Sputtering", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeP308), p 246.

FU, R K Y, TANG, D L, WAN, G J and CHU, P K H, "Hybrid Plasma Nitriding and Silicon Implantation for Corrosion Resistance Enhancement of Mould Steels", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper ThP303), p 289.

GONG, C Z, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, "Hybrid High-frequency Pulser for Plasma Based Ion Implantation", *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 204, (Paper P11-3).

HUANG, A P, FU, R K Y and CHU, P K H, "Improvement of Interfacial and Microstructure Properties of High-k ZrO_2 Thin Films Fabricated by Filtered Cathodic Arc Deposition Using Nitrogen Incorporation", *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 197, (Paper MP-P21).

HUANG, Y X, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, "Surface Properties of Al_2O_3 Films on Kapton Fabricated by Plasma Immersion Ion Implantation Deposition (PIIID)", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 150, (Paper P3-27).

HUANG, Y X, TIAN, X B, YANG, S Q, WEI, C B, FU, R K Y and CHU, P K H, "Particle-in-Cell Numerical Simulation on Non-Uniform Plasma Ion Implantation", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeP403), p 337.

JING, F J, FU, R K Y, ZHAO, X B, HUANG, N and CHU, P K H, "Synthesis and Characteristics of Lanthanum Oxide Films by Dual Plasma Deposition and In Vitro Evaluation of Endothelial Cells Cultured on the Films", *Proceedings of the International Conference on Metallurgical Coatings and Thin Films (ICMCTF'06)*, San Diego, California, USA, 1-5 May 2006, p 109, (Paper HP-24).

JING, F J, WANG, L, FU, R K Y, LENG, Y X, CHEN, J Y, HUANG, N and CHU, P K H, "Behavior of Endothelial Cells on Micro-patterned Titanium Oxide Surface", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 189, (Paper P9-3).

LO, K C, HO, H P, FU, R K Y and CHU, P K H, "Rapid Growth of Gallium Oxide Nanoribbons and Nanowires on Gallium Arsenide Using Implantation-assisted Techniques", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 71, (Paper T6-3).

LO, K C, HO, H P, FU, R K Y and CHU, P K H, "Synthesis of Indium Oxide Nanorods on Indium Phosphide Substrate Using Plasma Immersion Ion Implantation", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 74, (Paper T6-6).

MEI, Y F, FU, R K Y, SIU, K G G, CHU, P K H, LI, Z M, YANG, C L, GE, W K, TANG, Z K, CHEUNG, W Y and WONG, S P, "Optical Properties of Highly (1000) Oriented Textured Zinc Oxide Films Fabricated by Metal Cathodic Arc and Oxygen Dual Plasma Deposition", *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 222, (Paper MP-P46).

MEI, Y F, SIU, K G G, FU, R K Y, CHU, P K H, ZHAI, J P, WANG, Y J, TSUI, O K C, TANG, Z K, SHI, J J and KONG, M G, "A Nano-MOS Array: Metallic Carbon Nanostructure Connected with Nanoscale SiO₂ Island inside Insulated Alumina Nanochannel on Silicon Substrate", *Proceedings of the NanoSingapore 2006: IEEE Conference on Emerging Technologies – Nanoelectronics*, Singapore, 10-13 January 2006, p 163, (Paper 68-NDS-A0102).

QIU, T, FU, R K Y, WU, X L and CHU, P K H, "Blue Emission from Mo-doped Diamond-like Carbon Films Fabricated by Dual Plasma Deposition", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 106, (Paper P1-2).

TIAN, X B, GONG, C Z, YANG, S Q, FU, R K Y and CHU, P K H, "Versatile Facility for Hybrid Plasma Based Ion Implantation - Deposition", *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 33, (Paper T1-3).

TIAN, X B, GONG, C Z, YANG, S Q, YU, N, FU, R K Y and CHU, P K H, "Oxygen Plasma Ion Implantation of Biomedical Titanium Alloy", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeCc5), p 107.

TIAN, X B, JIANG, H F, YANG, S Q, FU, R K Y and CHU, P K H, "By Radio-frequency Hollow Cathode Discharge", *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 166, (Paper TE-P14).

TIAN, X B, WANG, Z M, YANG, S Q, FU, R K Y and CHU, P K H, "Fabrication of Antibacterial Cu-Containing Titanium Nitride Films by Plasma Immersion and Magnetron Sputtering", *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 71, (Paper TE-03).

WEI, C B, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, "C₂H₂ Plasma Immersion Ion Implantation-deposition (PIIID) of AZ31B Magnesium Alloy", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 151, (Paper P3-28).

WEI, C B, TIAN, X B, YANG, S Q, WANG, X B, FU, R K Y and CHU, P K H, "Spatial Distribution of Anode Current during Plasma Electrolytic Oxidation", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeP309), p 247.

WU, C M L, LO, K C, HO, H P, FU, R K Y and CHU, P K H, "Selective Area Growth of Gallium Oxide Nanowires on Gold Patterned Gallium Arsenide Using Implantation-assisted Technique", 2006 MRS Spring Meeting, San Francisco, USA, 17-21 April 2006.

HA Peter Cao-thang

HA, P C T, MCKENZIE, D R, BILEK, M M M, CHU, P K H and TAY, B K, "A Study of Single and Multilayer DLC Film Prepared by RF Plasma and Filteredcathodic Arc", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 143, (Paper P3-20).

HA, P C T, MCKENZIE, D R, BILEK, M M M, DOYLE, E D, MCCULLOCH, D G, KWOK, S C H and CHU, P K H, "A Comparison of DLC Films of Single and Multilayer Structure Prepared by the Cathodic Arc and RF Plasma Deposition and Implantation", *Proceedings of the 16th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes and Nitrides*, Toulouse, France, 11-16 September 2005, (Paper 5.10.10).

KWOK, S C H, HA, P C T, MCKENZIE, D R, BILEK, M M M and CHU, P K H, "Biocompatibility of Calcium and Phosphorus Doped Diamond-like Carbon Thin Films Synthesized by Plasma Immersion Ion Implantation and Deposition (PIII&D)", *Proceedings of the 16th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes and Nitrides*, Toulouse, France, 11-16 September 2005, (Paper 15.7.3).

LIU, Y M, XU, M, CAI, X, CHEN, Q L, LI, L H, HA, P C T, KWOK, S C H and CHU, P K H, "Effects of W Implantation into 321 Stainless Steel Substrate on the Mechanical Properties of Deposited DLC Films", *Proceedings of the 16th European Conference on Diamond, Diamond-like Materials*, Toulouse, France, 11-16 September 2005, (Paper 15.9.9).

HO Joan Pui Yee

CHAN, K F, HO, J P Y, LI, W Y, LAU, B M F, TSE, K W N, FONG, W F, BILEK, M M M, MCKENZIE, D R, CHU, P K H and YU, K N, "Investigation of Cytocompatibility of Surface-treated Cellulose Nitrate Films by Using Plasma Immersion Ion Implantation", 8th International Workshop on Plasma-based Ion Implantation and Deposition (PBII&D), Chengdu, PRC, 18-22 September 2005.

CHU, P K H, LIU, X Y, FU, R K Y, HO, J P Y, ZHAO, X B and DING, C X, "Improvement in Bioactivity of Plasma Sprayed TiO₂ Coating with Nanostructured Surface", *Proceedings of the 3rd International Conference on Materials for Advanced Technologies (ICMAT 2005) and International Union of Materials Research Societies 9th International Conference on Advanced Materials (IUMRS-ICAM 2005)*, Singapore, 3-8 July 2005, (Paper A-6-P08).

CHU, P K H, LIU, X Y, FU, R K Y, HO, J P Y and DING, C X, "Bone-like Apatite Formation on Hydrogenated Amorphous Silicon", *Proceedings of the 3rd International Conference on Materials for Advanced Technologies (ICMAT 2005) and International Union of Materials Research Societies 9th International Conference on Advanced Materials (IUMRS-ICAM 2005)*, Singapore, 3-8 July 2005, (Paper A-4-OR13).

HO, J P Y, WU, S L, POON, W Y, CHUNG, C Y, TJONG, S C, CHU, P K H, YEUNG, K W K, LU, W W, CHEUNG, K M C and LUK, K D K, "Oxygen Plasma Treatment to Restrain Nickel Out Diffusion from Porous Nickel Titanium Orthopedic Materials", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper ThP307), p 293.

KWOK, S C H, WAN, G J, HO, J P Y, CHU, P K H, BILEK, M M M and MCKENZIE, D R, "Characteristics of Phosphorus-doped Diamond-like Carbon Films Synthesized by Plasma Immersion Ion Implantation and Deposition (PIII&D)", *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 118, (Paper P2-10).

POON, W Y, HO, J P Y, LIU, X Y, CHUNG, C Y, TJONG, S C, CHU, P K H, YEUNG, K W K, LU, W W and CHEUNG, K M C, "Improvement of Surface Properties of Orthopedic Nickel-titanium Shape Memory Alloys by Nitrogen Plasma Immersion Ion Implantation", *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 201, (Paper MP-P25).

YEUNG, K W K, POON, W Y, LIU, X, HO, J P Y, CHUNG, C Y, CHU, P K H, LU, W W, CHAN, D and CHEUNG, K M C, "Nickel Suppression in Nickel-Titanium Alloys by Plasma Immersion Ion Implantation Surface Treatment: New Materials for Orthopaedic Implantation", European Cells and Materials Conference, Davos, Switzerland, 4-7 July 2005.

ZHANG, W, CHU, P K H, JI, J H, ZHANG, Y H and HO, J P Y, "Surface Chemical and Physical Characteristics of Poly (Ethylene Terephthalate) Treated by Water Plasma Immersion Ion Implantation", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 170, (Paper P5-9).

KWOK Chung Hang

HA, P C T, MCKENZIE, D R, BILEK, M M M, DOYLE, E D, MCCULLOCH, D G, KWOK, S C H and CHU, P K H, "A Comparison of DLC Films of Single and Multilayer Structure Prepared by the Cathodic Arc and RF Plasma Deposition and Implantation", *Proceedings of the 16th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes and Nitrides*, Toulouse, France, 11-16 September 2005, (Paper 5.10.10).

KWOK, S C H, HA, P C T, MCKENZIE, D R, BILEK, M M M and CHU, P K H, "Biocompatibility of Calcium and Phosphorus Doped Diamond-like Carbon Thin Films Synthesized by Plasma Immersion Ion Implantation and Deposition (PIII&D)", *Proceedings of the 16th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes and Nitrides*, Toulouse, France, 11-16 September 2005, (Paper 15.7.3).

KWOK, S C H, WAN, G J, HO, J P Y, CHU, P K H, BILEK, M M M and MCKENZIE, D R, "Characteristics of Phosphorus-doped Diamond-like Carbon Films Synthesized by Plasma Immersion Ion Implantation and Deposition (PIII&D)", *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 118, (Paper P2-10).

LIU, Y M, XU, M, CAI, X, CHEN, Q L, LI, L H, HA, P C T, KWOK, S C H and CHU, P K H, "Effects of W Implantation into 321 Stainless Steel Substrate on the Mechanical Properties of Deposited DLC Films", *Proceedings of the 16th European Conference on Diamond, Diamond-like Materials*, Toulouse, France, 11-16 September 2005, (Paper 15.9.9).

LIU Xiang-mei

WU, S L, LIU, X M, CHU, P K H, CHUNG, C Y, CHU, C L and YEUNG, K W K, "Phase Transformation Behaviour of Porous NiTi Alloys Fabricated by Capsule-free Hot Isostatic Pressing", *Proceedings of the 1st International Symposium on Functional Materials (ISFM)*, Kuala Lumpur, Malaysia, 6-8 December 2005, pp 64-70.

WU, S L, LIU, X M, CHUNG, C Y, YEUNG, K W K, CHU, P K H, CHU, C L, LU, W W and CHEUNG, K M C, "Nickel Release Behavior and Biocompatibility of Oxidized Porous NiTi", *Proceedings of the European Materials Research Society Spring Meeting (E-MRS 2006)*, Nice, France, 29 May 2006 - 2 June 2006, pp J-10, (Paper J-10-02).

MEI Yongfeng

MEI, Y F, FU, R K Y, SIU, K G G, CHU, P K H, LI, Z M, YANG, C L, GE, W K, TANG, Z K, CHEUNG, W Y and WONG, S P, "Optical Properties of Highly (1000) Oriented Textured Zinc Oxide Films Fabricated by Metal Cathodic Arc and Oxygen Dual Plasma Deposition", *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 222, (Paper MP-P46).

MEI, Y F, SIU, K G G, FU, R K Y, CHU, P K H, ZHAI, J P, WANG, Y J, TSUI, O K C, TANG, Z K, SHI, J J and KONG, M G, "A Nano-MOS Array: Metallic Carbon Nanostructure Connected with Nanoscale SiO₂ Island inside Insulated Alumina Nanochannel on Silicon Substrate", *Proceedings of the NanoSingapore 2006: IEEE Conference on Emerging Technologies – Nanoelectronics*, Singapore, 10-13 January 2006, p 163, (Paper 68-NDS-A0102).

QIU, T, WU, X L, WAN, G J, MEI, Y F, HUANG, A P, SIU, K G G, LUO, S H and CHU, P K H, "Self-organized Synthesis of Micrometer Scale Silver Disks by Electroless Metal Deposition on Si-incorporated Diamond-like Carbon Films", *Proceedings of the International Conference on Surfaces, Coatings and Nanostructured Materials (nanoSMat2005)*, Aveiro, Portugal, 7-9 September 2005, (Paper AP98).

POON Ray Wai Yip

YEUNG, K W K, POON, W Y, LIU, X Y, CHUNG, C Y, CHU, P K H, LU, W W, CHAN, D, LUK, K D K and CHEUNG, K M C, "Nitrogen Plasma Immersion Ion Implanted Nickel Titanium Alloys for Orthopedic Use", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper S22), p 99.

HO, J P Y, WU, S L, POON, W Y, CHUNG, C Y, TJONG, S C, CHU, P K H, YEUNG, K W K, LU, W W, CHEUNG, K M C and LUK, K D K, "Oxygen Plasma Treatment to Restrain Nickel Out Diffusion from Porous Nickel Titanium Orthopedic Materials", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper ThP307), p 293.

POON, W Y, HO, J P Y, LIU, X Y, CHUNG, C Y, TJONG, S C, CHU, P K H, YEUNG, K W K, LU, W W and CHEUNG, K M C, "Improvement of Surface Properties of Orthopedic Nickel-titanium Shape Memory Alloys by Nitrogen Plasma Immersion Ion Implantation", *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 201, (Paper MP-P25).

YEUNG, K W K, POON, W Y, LIU, X, HO, J P Y, CHUNG, C Y, CHU, P K H, LU, W W, CHAN, D and CHEUNG, K M C, "Nickel Suppression in Nickel-Titanium Alloys by Plasma Immersion Ion Implantation Surface Treatment: New Materials for Orthopaedic Implantation", *European Cells and Materials Conference*, Davos, Switzerland, 4-7 July 2005.

TIAN Xiubo

CUI, J T, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, "Plasma Distribution in the Slender Bore Excited by Coaxial RF Electrode", *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 122, (Paper P2-14).

CUI, J T, TIAN, X B, YANG, S Q, HU, T, FU, R K Y and CHU, P K H, "Inner Coating of Slender Tube by RF Sputtering", *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeP308), p 246.

GONG, C Z, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, "Hybrid High-frequency Pulser for Plasma Based Ion Implantation", *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 204, (Paper P11-3).

HUANG, Y X, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, “Surface Properties of Al_2O_3 Films on Kapton Fabricated by Plasma Immersion Ion Implantation Deposition (PIIID)”, *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 150, (Paper P3-27).

HUANG, Y X, TIAN, X B, YANG, S Q, WEI, C B, FU, R K Y and CHU, P K H, “Particle-in-Cell Numerical Simulation on Non-Uniform Plasma Ion Implantation”, *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeP403), p 337.

TIAN, X B, GONG, C Z, YANG, S Q, FU, R K Y and CHU, P K H, “Versatile Facility for Hybrid Plasma Based Ion Implantation - Deposition”, *Proceedings of the 8th International Workshop on Plasma-Based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 33, (Paper T1-3).

TIAN, X B, GONG, C Z, YANG, S Q, YU, N, FU, R K Y and CHU, P K H, “Oxygen Plasma Ion Implantation of Biomedical Titanium Alloy”, *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeCc5), p 107.

TIAN, X B, JIANG, H F, YANG, S Q, FU, R K Y and CHU, P K H, “By Radio-frequency Hollow Cathode Discharge”, *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 166, (Paper TE-P14).

TIAN, X B, WANG, Z M, YANG, S Q, FU, R K Y and CHU, P K H, “Fabrication of Antibacterial Cu-Containing Titanium Nitride Films by Plasma Immersion and Magnetron Sputtering”, *Proceedings of the 14th International Conference on Surface Modification of Materials by Ion Beams (14th SMMIB)*, Kusadasi, Turkey, 4-9 September 2005, p 71, (Paper TE-03).

WEI, C B, TIAN, X B, YANG, S Q, FU, R K Y and CHU, P K H, “ C_2H_2 Plasma Immersion Ion Implantation-deposition (PIIID) of AZ31B Magnesium Alloy”, *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 151, (Paper P3-28).

WEI, C B, TIAN, X B, YANG, S Q, WANG, X B, FU, R K Y and CHU, P K H, “Spatial Distribution of Anode Current during Plasma Electrolytic Oxidation”, *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper WeP309), p 247.

DONG, C, QIANG, J B, WANG, Y M and SHEK, C H, “Bulk Metallic Glass Formation and Icosahedral Clusters”, 12th International Conference on Rapidly Quenched and Metastable Materials, Jeju, South Korea, 21-26 August 2005.

WANG, Y M, SHEK, C H and DONG, C, “A New Rare Earth Based $\text{Ce}_{60}\text{Al}_{20}\text{Co}_{20}$ Bulk Metallic Glass”, 12th International Conference on Rapidly Quenched and Metastable Materials, Jeju, South Korea, 21-26 August 2005.

WANG Yingmin

WANG, Y M, SHEK, C H, QIANG, J B, DONG, C, PANG, S J and ZHANG, T, “The Best Glass-forming Compositions in Al-Co(or Ni)-Y Ternary Systems”, 12th International Symposium on Metastable and Nano Materials (ISMANAM), Paris, France, 3-7 July 2005.

WONG Chi Lok

WONG, C L, LEI, K F, CHOW, W W Y, HO, H P, LI, W J, KONG, S K, and CHAN, K S, “Chemical and Biological Detection using Microfluidic Platform and Surface Plasmon Resonance Imaging Sensor”, The 4th IEEE Conference on Sensors (IEEE Sensors 2005), Irvine, CA, USA, 31 October – 3 November, 2005.

YUEN, W, WONG, C L, WU, S Y, HO, H P, KONG, S K and LIN, C L, “Application of Fabry-Perot interferometer for signal amplification in phase-sensitive surface plasmon resonance biosensors”, Biosensors 2006, The 9th World Congress on Biosensors, Toronto, Canada, 10-12 May 2006.

HO, H P, CHAN, K S, WONG, C L, LEI, K F, LI, W J, LAW, W C, WU, S, Y, KONG, S K and LIN C L, “Two-dimensional surface plasmon resonance biosensor array based on phase-sensitive measurement”, Proc. SPIE Vol. 5927, p 84-93, Aug 2005.

HO, H P, WONG, C L, LEI, K F, LI, W J, CHAN, K S, LAW, W C, WU, S Y, KONG, S K and LIN, C L, “Two dimensional phase sensitive surface plasmon resonance biosensor array using microfluidic flow circuit platform”, IEEE Conference on Electron Devices and Solid-State Circuits, Hong Kong, 19-21 December 2005.

WONG Lap Mho

WONG, M L M and CHAN, J C L, “Effects of Land-sea Roughness Contrast on Tropical Cyclone Winds”, *Proceedings of the Workshop on Meteorology and Climate over South China*, Hong Kong, PRC, 5-8 December 2005, pp 186-191.

WONG, M L M and CHAN, J C L, “Effects of Land-sea Roughness Contrast on Tropical Cyclone Winds”, 27th Conference on Hurricanes and Tropical Meteorology, American Meteorological Society, Monterey, CA, USA, 24-28 April 2006.

WONG, M L M and CHAN, J C L, “Tropical Cyclone Motion in Response to Land Surface Friction”, Scientific Assembly of International Association of Meteorology and Atmospheric Science (IAMAS 2005), Beijing, PRC, 2-11 August 2005.

WU Shuilin

HO, J P Y, WU, S L, POON, W Y, CHUNG, C Y, TJONG, S C, CHU, P K H, YEUNG, K W K, LU, W W, CHEUNG, K M C and LUK, K D K, “Oxygen Plasma Treatment to Restrain Nickel Out Diffusion from Porous Nickel Titanium Orthopedic Materials”, *Proceedings of the 5th Asian-European International Conference on Plasma Surface Engineering*, Qingdao, PRC, 12-16 September 2005, (Paper ThP307), p 293.

WU, S L, LIU, X M, CHU, P K H, CHUNG, C Y, CHU, C L and YEUNG, K W K, “Phase Transformation Behaviour of Porous NiTi Alloys Fabricated by Capsule-free Hot Isostatic Pressing”, *Proceedings of the 1st International Symposium on Functional Materials (ISFM)*, Kuala Lumpur, Malaysia, 6-8 December 2005, pp 64-70.

WU, S L, LIU, X M, CHUNG, C Y, YEUNG, K W K, CHU, P K H, CHU, C L, LU, W W and CHEUNG, K M C, "Nickel Release Behavior and Biocompatibility of Oxidized Porous NiTi", *Proceedings of the European Materials Research Society Spring Meeting (E-MRS 2006)*, Nice, France, 29 May 2006 - 2 June 2006, pp J-10, (Paper J-10-02).

YAO Yuan

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Deposition of Adherent cBN Films on Nano-structured Carbon Interlayer at Elevated Temperature by Magnetron Sputtering", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

ZHAO Hongxia

ZHAO, H X and LI, R K Y, "Effect of Particle Surface Treatments on the Tensile and Fracture Characteristics of Spherical Alumina Filled Polypropylene Nanocomposites", International Workshop on Fracture of Materials: Moving Forwards, Sydney, Australia, 23-25 January 2006.

趙紅霞 and 李國耀, "聚丙烯/氧化鋁納米複合材料的結晶與力學行為", 中國化學會第九屆全國應用化學年會, 武漢大學, 武漢, PRC, September 2005.

Patents, agreements, assignments and companies

WONG Fu Lung

LEE, S T, JIANG, X, LEE, C S and WONG, F L, High-quality Aluminum-doped Zinc Oxide Layer als Transparent Conductive Electrode for Organic Light-emitting Devices, Patent No.: 6,917,158 B2, The United States Patent and Trademark Office, USA, 12 July 2005.

All other outputs

CHAN Chit Yiu

CHAN, C Y, Nucleation and Growth of Cubic Boron Nitride Thin Films, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 10 August 2005.

CHAN Jackie Wai Wing

CHAN, J W W, New Concept in Fire Resistant Concrete, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 5 September 2005.

CHEUNG Yin Ping

CHEUNG, Y P, Source Attribution of Particulate Matter and Gaseous Pollutants in Hong Kong, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 7 November 2005.

CHEW Siew-ling

CHEW, S L, New Materials Development in Organic Light-Emitting Diodes, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 7 June 2006.

FUNG Kin-lun

FUNG, K L, Mechanical Properties and Fracture Behaviour of Rubber Toughened PET Blends and Short Glass Fibre Reinforced Hybrid Composites, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 31 March 2006.

- HA Peter Cao-thang** HA, P C T, Carbon Coatings on Tools for Industrial Applications, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 14 February 2006.
- MEI Yongfeng** MEI, Y F, Nanostructure Array Fabricated via Ordered Template, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 25 July 2005.
- TAM Chi Yan** TAM, C Y, Surface Properties of Copper-based Bulk Metallic Glasses, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 20 September 2005.
- TAM Kam Fai** TAM, K F, Mechanical and Thermal Characteristics of HIPed Al-TiB₂ MMCs, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 23 September 2005.
- TANG Jian Xin** TANG, J X, Studies of Electronic and Chemical Structures of Interfaces between Metals and Organic Semiconductors, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 3 January 2006.
- TONG Shi Wun** TONG, S W, Deposition and Application of Fluorocarbon Coatings in Organic Light-emitting Devices, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 6 September 2005.
- YANG Yan** YANG, Y, Parameterization and Computational Simulation of Turbulent Transfer in Urban Atmospheric Boundary Layers, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 23 June 2006.
- ZHAO Hongxia** ZHAO, H X, Studies of Thermal, Mechanical and Fracture Behaviors of Rigid Nanoparticulates Filled Polymeric Composites, PhD Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 25 July 2005.

Journal publications

- LEE Wai Leng** GREEN, M and LEE, W L, "Virtual Reality Research in Hong Kong: Automating the Construction of 3D User Interfaces", *Journal of the Virtual Reality Society of Japan*, 11(1), March 2006, pp 28-31.
- WU Wei Hua** WU, W H, "Independent Animation in Contemporary China", *Cartoons: The International Journal of Animation*, February 2006, pp 21-25.
- WU, W H and FORE, S, "Flash Empire and Chinese Shanke: The Emergence of Chinese Digital Culture", *Animation Journal*, Vol 13, October 2005, pp 28-51.
- ZENG Jia** ZENG, J and LIU, Z Q, "Type-2 Fuzzy Hidden Markov Models and Their Application to Speech Recognition", *IEEE Transactions on Fuzzy Systems*, 14(3), June 2006, pp 454-467.

Conference papers

- FENG Wei** FENG, W and LIU, Z Q, "Markov Pixon Model for Image Structure Extraction", *Proceedings of the 4th International Conference on Machine Learning and Cybernetics (ICMLC 2005)*, Guangzhou, PRC, 18-21 August 2005, pp 5290-5296.
- FENG, W and LIU, Z Q, "Bayesian Structural Content Abstraction for Region-level Image Authentication", *Proceedings of the International Conference on Computer Vision (ICCV 2005)*, Vol 2, Beijing, PRC, 15-21 October 2005, pp 1042-1047.
- LEE Wai Leng** LEE, W L and GREEN, M, "Automatic Layout for 3D User Interfaces Construction", *Proceedings of the ACM International Conference on Virtual Reality Continuum and Its Applications (VRCIA 2006)*, Hong Kong, PRC, 14-17 June 2006, pp 113-120.
- LEE, W L and GREEN, M, "A Layout Framework for 3D User Interfaces", *Proceedings of the 12th ACM Symposium on Virtual Reality Software and Technology (VRST 2005)*, Monterey, USA, 7-9 November 2005, pp 96-105.
- WANG Zhen Zi** WANG, Z Z and LIU, Z Q, "User Participation Helps Linear Narrative Work in New Media Era", *Proceedings of the 2005 International Conference on Graphic Arts and Communications: Digital Media and Communication (2005 圖文傳播國際研討會:數位媒體暨傳播應用)*, Taiwan, 17-18 November 2005, pp 133-144.
- WU Wei Hua** WU, W H, "Among the Avant-garde, Rock'n Roll, and the World: Flash Animation as the Subcultural Practice in Contemporary China", *Film Scene: Cinema, the Arts, and Social Change*, Hong Kong, PRC, 21-22 April 2006.
- WU, W H, "Animation as Alternative Engine: Visual Narrative, Cultural Interface and New Media under the Global Digitization", *International Conference on Cross-cultural Communication*, Taipei, Taiwan, 6-8 July 2005.

WU, W H, "New-media Animation and the Reconstruction of Chinese Cultural Interface", International Conference on Cross-Cultural Communication, Taipei, Taiwan, 6-8 July 2005.

ZENG Jia

ZENG, J and LIU, Z Q, "Markov Random Fields for Handwritten Chinese Character Recognition", *Proceedings of the 8th International Conference on Document Analysis and Recognition (ICDAR 2005)*, Seoul, South Korea, 29 August 2005 - 1 September 2005, pp 101-105.

ZHANG Sicheng

ZHANG, S C and LIU, Z Q, "Estimate Face Orientation by Fusing Multiple Visual Cues", *Proceedings of the Asia-Pacific Workshop on Visual Information Processing*, Hong Kong, PRC, 11-13 December 2005, pp 1-6.

Creative and literary works, consulting reports and case studies

MARIDET Cedric

MARIDET, C, *Habitus*, Audio CD, Morème, An Acousmatic Composition Based on a Performance, 2006.

All other outputs

MARIDET Cedric

MARIDET, C, Huangpu, Leisure and Cultural Services Department, Hong Kong Museum of Art, Winner of the Prize of Excellence, 15th Hong Kong Art Biennial, Hong Kong, PRC, 15 December 2005.

WANG Zhen Zi

WANG, Z Z, TV Documentary "All about the Teacher", China Television Artists Association, 2004-2005 Top 10 TV Documentaries, PRC, December 2005.

WANG, Z Z, TV Documentary "All about the Teacher", All-China Women's Federation & China Television Artists Association, Special Production Award in 2006 Excellent Television Programs Exhibition of Prime Women, PRC, February 2006.

WANG, Z Z, *The Narrative Mechanism of New Media: The Role of Interactivity in Storytelling*, PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 6 April 2006.

ZENG Jia

ZENG, J, Type-2 Fuzzy Hidden Markov Models and Their Application to Phoneme Classification, IEEE, First Prize, IEEE Region 10 (Asia Pacific Region), 2005 Postgraduate Student Paper Contest, USA, 30 September 2005.

ZENG, J, Markov Random Fields for Statistical-structural Chinese Character Modeling and Recognition, IEEE, Second Prize, Hong Kong Section of IEEE, 2005 Postgraduate Student Paper Contest, Hong Kong, PRC, 25 March 2006.

ZHANG Jing

ZHANG, J, 樓梯·人生@香港 Stairs.Life@Hong Kong, 鼓勵獎 Merit Award, 〈人民日報〉網絡部 (人民網) www.people.com.cn & 汕頭大學長江新聞與傳播學院 People Daily Website and Cheung Kong School of Journalism and Communication at Shantou University, 2005大學生優秀DV紀實作品有獎征集 鼓勵獎 2005 Award of Excellent Digital Video Documentary Competition for University Students, Beijing, PRC, October 2005.

ZHANG Sicheng

ZHANG, S C, Face Detection, Tracking and Orientation Estimation, PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 22 July 2005.

ZHANG, S C and LIU, Z Q, "Estimate Face Orientation by Fusing Multiple Visual Cues", Best Paper Award, IEEE Systems, Man and Cybernetics Society, Asia-Pacific Workshop on Visual Information Processing, VIP'05, Hong Kong, PRC, 11-13 December 2005.

SCHOOL OF LAW

Conference papers

LIU Hong

LIU, H, "Due Process in China: Its Ideal Perspective and the Practical Obstacles", Featured Session- Crime and Social Control in China, 14th World Congress of Criminology, International Society of Criminology, USA, 7-11 August 2005.

All other outputs

FU Xin

FU, X, An Empirical Study of Criminal Procedure in the People's Republic of China, PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 6 December 2005.

LUO Qing

LUO, Q, The Legal Protection of the Insured: A Comparative Study of Chinese, UK, Australian Insurance Law, PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 18 March 2006.

WANG Nan

WANG, N, Regulation and Supervision of Foreign Banks in China after China's WTO Accession, PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 9 September 2005.

SECTION B:

PUBLICATIONS OF MPhil STUDENTS

FACULTY OF BUSINESS

DEPARTMENT OF ACCOUNTANCY

All other outputs

- CHEUK Man-chiu** CHEUK, M C, Auditor Rotation Versus Audit Partner Rotation: An Examination of Audit Quality, Audit Pricing and Audit Report Lag in Australia, MPhil Thesis, Department of Accountancy, City University of Hong Kong, Hong Kong, PRC, 12 June 2006.

DEPARTMENT OF ECONOMICS AND FINANCE

All other outputs

- HO Wai-ho** HO, W H, International Protection of Intellectual Property and Parallel Imports, MPhil Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 28 September 2005.
- ZHOU Wenqun** ZHOU, W, The Corporate Governance Practices and its Deterministic Factors in Hong Kong Market, MPhil Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 27 February 2006.

DEPARTMENT OF INFORMATION SYSTEMS

Journal publications

- CHEN Mike Zhaohui** LEE, M K O, CHEUNG, C M K and CHEN, Z H, "Acceptance of Internet-based Learning Medium: The Role of Extrinsic and Intrinsic Motivation", *Information and Management*, 42(8), December 2005, pp 1095-1104.
- GAO Caddie Shijia** GAO, C S, WANG, H Q, WANG, Y F, SHEN, W and YEUNG, S B, "Web-service-agents-based Family Wealth Management System", *Expert Systems with Applications*, 29(1), July 2005, pp 219-228.
- SO Chi-fung** SO, C F and BOLLOJU, N, "Explaining the Intentions to Share and Reuse Knowledge in the Context of IT Service Operations", *Journal of Knowledge Management*, 9(6), 2005, pp 30-41.

WANG Yingfeng GAO, C S, WANG, H Q, WANG, Y F, SHEN, W and YEUNG, S B, "Web-service-agents-based Family Wealth Management System", *Expert Systems with Applications*, 29(1), July 2005, pp 219-228.

Conference papers

HO Hong-ming HO, H M, HUNG, S L and MA, L C K, "Development of a Web-based Project Management System Prototype with Strong Control Mechanisms", *Proceedings of the IASTED International Conference on Software Engineering (SE 2006)*, Innsbruck, Austria, 14-16 February 2006, pp 71-78.

SO Chi-fung SO, C F and BOLLOJU, N, "Understanding Knowledge Sharing Intention from IT Service Operations and KM Infrastructure Perspectives", *Proceedings of the 9th Pacific-Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 1432-1439.

WONG Sharon Wing-man WONG, S W M, LEE, D O K and LIM, K, "Managing Non-Work Related Computing within an Organization: The Effect of Two Disciplinary Approaches on Employees' Commitment to Change", *Proceedings of the 9th Pacific Asia Conference on Information Systems (PACIS 2005)*, Bangkok, Thailand, 7-10 July 2005, pp 441-454.

YUAN Minghui YUAN, M and VOGEL, D, "Cultural Impact on Intergroup Coordination in Software Development in China: A Qualitative Analysis", *Proceedings of the 39th Annual Hawaii International Conference on System Sciences (HICSS-39)*, Hawaii, USA, 4-7 January 2006, published in CD Rom.

All other outputs

CHAU Tenson Tin Sing CHAU, T S, An Object-oriented and XML-based Framework for Modeling and Representing Mobile-Commerce Application Information, MPhil Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 24 April 2006.

GAO Caddie Shijia GAO, C S, Intelligent Agent Assisted Decision Support for Family Financial Planning, MPhil Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 14 September 2005.

SO Chi-fung SO, C F, The Effects of Establishing IT Service Operations and Knowledge Management Infrastructure on Knowledge Sharing Intention, MPhil Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 1 February 2006.

XU Jingjun XU, J J, Personalized Mobile Advertising Application Using Bayesian Networks, MPhil Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 12 December 2005.

DEPARTMENT OF MANAGEMENT

All other outputs

- KWOK Man-lung** KWOK, M L, Transformational Leadership and New Product Development Team Innovativeness: The Mediating Role of Team Empowerment and Followers' Dependence, MPhil Thesis, Department of Management, City University of Hong Kong, Hong Kong, PRC, 28 April 2006.
- WONG Yin-ye** WONG, Y Y, Person-by-Organization Interactions: Effects of Ethical Climate, Individual Ethical Framework and Equity Sensitivity on Organizational Commitment and Personal Justice Norms, MPhil Thesis, Department of Management, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.

DEPARTMENT OF MANAGEMENT SCIENCES

Conference papers

- CHAN Miu-hung** CHAN, M H and TSE, S K, "A Study on Customer Satisfaction in Hong Kong", 6th Annual Hawaii International Conference on Business, USA, 25-29 May 2006.
- HE, Y Q, CHAN, M H and TSE, S K, "Disconfirmation Effect at Aggregate Market Levels: A Cross-industry Investigation", INFORMS Annual Meeting, Pittsburgh, PA, USA, 8-10 June 2006.
- HE Wanwei** HE, W W and WAN, A T K, "Range-based Forecast for Daily Exchange Rate Volatility", 26th International Symposium on Forecasting, Santander, Spain, 11-14 June 2006.
- LI Mei Yee** LO, H P, LI, M Y and LU, X L, "A Use of the Prospect Theory in the Study of Travelers' Choice - Evidence from the West Rail Experience", *Proceedings of the 10th Conference of Hong Kong Society for Transportation Studies*, Hong Kong, PRC, December 2005, pp 379-389.
- WONG Chi-hang** WONG, C H and YEUNG, I M H, "Credit Risk Analysis for US Financial Corporations", 6th Annual Hawaii International Conference on Business, Hawaii, USA, 25-28 May 2006.
- All other outputs*
- CHEN Yi-kwan** CHEN, Y K, Optimal Coordination of Purchasing, Inventory and Demand Management, MPhil Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 15 November 2005.
- LI Mei Yee** LI, M Y, Activity-Based Modelling of Travel Demand in Suburban Area, MPhil Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 21 October 2005.

LO King Shuen

LO, K S, Hub-and-Spoke Airline Network Analysis for Mainland China 中國航空樞紐輻射網絡之分析, MPhil Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 8 June 2006.

LO Siu-chung

LO, S C, A Study of Service Quality of Public and Private General Out-patient Clinics in Hong Kong, MPhil Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 6 December 2005.

FACULTY OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF APPLIED SOCIAL STUDIES

Scholarly books, monographs and chapters

- LEE Sin Ting** WONG, D S W and LEE S T, "Strategies for Tackling School Bullying: A Whole-School Approach", *Working with Youth-at-Risk in Hong Kong*, F W L Lee (ed), Hong Kong University Press, Hong Kong, PRC, August 2005, pp 39-52.

Journal publications

- CHAN Ivy Wing-sum** CHAN, I W S, LAI, J C L and WONG, K W N, "Resilience is Associated with Better Recovery in Chinese People Diagnosed with Coronary Heart Disease", *Psychology & Health*, 21(3), June 2006, pp 335-349.

Creative and literary works, consulting reports and case studies

- LO Pui-kwan** LEUNG, K K, HO, K W and LO, P K, *A User Survey on Sourcing Guide and Publications*, Trade Development Council, Hong Kong, PRC, January 2006.

All other outputs

- CHAN Ivy Wing-sum** CHAN, I W S, Posttraumatic Growth among Healthcare Workers after SARS, MPhil Thesis, Department of Applied Social Studies, City University of Hong Kong, Hong Kong, PRC, 15 June 2006.
- LO Pui-kwan** LO, P K, Interactions between Residents/Social Activists and the Government during the Negotiation Period in the Participation and Mobilization of Urban Redevelopment Movement: Case Studies in Sai Ying Pun and Sham Shui Po in Hong Kong, MPhil Thesis, Department of Applied Social Studies, City University of Hong Kong, Hong Kong, PRC, 26 August 2005.

DEPARTMENT OF CHINESE, TRANSLATION AND LINGUISTICS

Conference papers

- LAM Marvin Man-kit** CHOW, I C and LAM, M M K, "A Discourse Analysis of 'Daxue' in Systemic Functional Perspective", Annual Research Forum 2005, Linguistic Society of Hong Kong, Hong Kong, PRC, 10-11 December 2005.
- ZHANG Lei** PAN, Hai-Hua and ZHANG, L, "The semantics of adverbial quan in Mandarin Chinese", The 7th Chinese Lexical semantics workshop, Taiwan, 22-24 May 2006.
- ZHANG, L, "The semantics of adverbial quan in Mandarin", LSHK Annual Research Forum 2005, Hong Kong, PRC, 17-18 December 2005.

ZHANG, L, "The semantics of adverbial quanbu in Mandarin Chinese", 14th Annual Conference of the International Association of Chinese Linguistics (IACL-14) and 10th International Symposium on Chinese Languages and Linguistics (IsCLL-10) Joint Conference, Taiwan, 25-29 May 2006.

All other outputs

CHOI Wai-yuk

CHOI, W Y, A Study of Zhang Dai's Prose During Kuaiyuan Period, MPhil Thesis, Department of Chinese, Translation and Linguistics, City University of Hong Kong, Hong Kong, PRC, 27 April 2006.

LI Po Yee

LI, P Y, The Effect of Duration on the Perception of the Cantonese Diphthongs, MPhil Thesis, Department of Chinese, Translation and Linguistics, City University of Hong Kong, Hong Kong, PRC, 14 February 2006.

YEH Selvia Chui

YEH, S C, A Study of Chen Zilong's Ci Poetry and Poetic Theory of Ci, MPhil Thesis, Department of Chinese, Translation and Linguistics, City University of Hong Kong, Hong Kong, PRC, 3 August 2005.

DEPARTMENT OF PUBLIC AND SOCIAL ADMINISTRATION

All other outputs

CHAN Hang-lap

CHAN, H L, Act and Omission: A Utilitarian Approach to Cadaver Organ Donation, MPhil Thesis, Department of Public and Social Administration, City University of Hong Kong, Hong Kong, PRC, 25 November 2005.

FACULTY OF SCIENCE & ENGINEERING

DEPARTMENT OF BIOLOGY AND CHEMISTRY

Journal publications

- CHAN Veronica Wai Yee** WONG, M K, CHAN, T C, CHAN, V W Y, CHAN, W K, VRIJMOED, L L P, O'TOOLE, D K and CHE, C M, "Dioxiranes Generated in Situ from Pyruvates and Oxone as Environmentally Friendly Oxidizing Agents for Disinfection", *Environmental Science & Technology*, Vol 40, January 2006, pp 625-630.
- CHAN, V W Y and VRIJMOED, L L P, "Seasonal profiles of outdoor airborne fungi in the urban areas of Hong Kong", Proceedings of the 10th International Conference on Indoor Air Quality and Climate (Indoor Air 2005), Beijing, PRC, 4-9 September 2005, p 73.
- CHEUNG Chui-shan** CHEUNG, H Y, CHEUNG, S H, LI, J L, CHEUNG, C S, LAI, W P, FONG, W F and LEUNG, F M, "Andrographolide isolated from *Andrographis paniculata* induces cell cycle arrest and mitochondrial-mediated apoptosis in human leukemic HL-60 cells", *Planta Medica*, Vol 71, December 2005, pp 1106-1111.
- CHEUNG Kwok-leung** GAO, Q F, CHEUNG, K L, CHEUNG, S G and SHIN, P K S, "Effects of nutrient enrichment derived from fish farming activities on macroinvertebrate assemblages in a subtropical region of Hong Kong", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 994-1002.
- CHOW Suk Hen** YU, R M K, LIN, C C, CHAN, P K, CHOW, S H, MURPHY, M B, CHAN, B P, MULLER, F, STRAHLE, U and CHENG, S H, "Four-Dimensional Imaging and Quantification of Gene Expression in Early Developing Zebrafish (*Danio rerio*) Embryos", *Toxicological Sciences*, 90(2), April 2006, pp 529-538.
- JI Shenglin** YI, R C Q, LI, C W, JI, S and YANG, M, "Microfluidics Technology for Manipulation and Analysis of Biological Cells", *Analytica Chimica Acta*, Vol 560, February 2006, pp 1-23.
- KAN Wendy Suk Fun** KAN, W S F and TANNER, P A, "Water-soluble and total sulphur in particulate matter determined by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS)", *Environmental Chemistry*, Vol 3, May 2006, pp 149-153.
- KWONG Hoi-ki** YEUNG, W F, KWONG, H K, LAU, T C, GAO, S, SZETO, L and WONG, W T, "Cyano-bridged molecular squares: Synthesis and structures of $[\text{Ni}(\text{cyclen})_2][\text{Pt}(\text{C}_4\text{N}_4)_2 \cdot 6\text{H}_2\text{O}]$, $[\text{Ni}(\text{cyclen})_2][\text{Ni}(\text{CN})_4]_2 \cdot 6\text{H}_2\text{O}$ and $[\text{Mn}(\text{cyclen})_2][\text{Ni}(\text{CN})_4]_2 \cdot 6\text{H}_2\text{O}$ ", *Polyhedron*, Vol 25, March 2006, pp 1256-1262.
- LAM, W W Y, YIU, S M, LEE, J M N, YAU, S K W, KWONG, H K, LAU, T C, LIU, D and LIN, Z, " BF_3 -Activated Oxidation of Alkanes by MnO_4^- ", *Journal of the American Chemical Society*, Vol 128, March 2006, pp 2851-2858.

- LAI Wai Ping** CHEUNG, H Y, CHEUNG, S H, LI, J L, CHEUNG, C S, LAI, W P, FONG, W F and LEUNG, F M, "Andrographolide isolated from *Andrographis paniculata* induces cell cycle arrest and mitochondrial-mediated apoptosis in human leukemic HL-60 cells", *Planta Medica*, Vol 71, December 2005, pp 1106-1111.
- CHEUNG, H Y, CHEUNG, S H, LAW, M L and LAI, W P, "Simultaneous determination of key bioactive components in *Hedyotis diffusa* by capillary zone electrophoresis", *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, Vol 834, April 2006, pp 195-198.
- LAU Pui-ha** YEUNG, W F, LAU, P H, LAU, T C, WEI, H Y, SUN, H L, GAO, S, CHEN, Z D and WONG, W T, "Heterometallic $M^{II}Ru^{III}_2$ Compounds Constructed from *trans*-[Ru(Salen)(CN)₂]⁻ and *trans*-[Ru(Acac)₂(CN)₂]⁻. Synthesis, Structures, Magnetic Properties, and Density Functional Theoretical Study", *Inorganic Chemistry*, Vol 44, September 2005, pp 6579-6590.
- LEE Joyce Mei-ngor** LAM, W W Y, YIU, S M, LEE, J M N, YAU, S K W, KWONG, H K, LAU, T C, LIU, D and LIN, Z, "BF₃-Activated Oxidation of Alkanes by MnO₄⁻", *Journal of the American Chemical Society*, Vol 128, March 2006, pp 2851-2858.
- LEE Mendy Fung Wah** LAM, W W Y, LEE, M F W and LAU, T C, "Kinetics and Mechanism of the Oxidation of Hydroquinones by a *trans*-Dioxoruthenium(VI) Complex", *Inorganic Chemistry*, Vol 45, January 2006, pp 315-321.
- LEE Terence Kwok Ming** JIANG, S Q T, LEE, T K M, CHEN, K, WONG, H L, ZHENG, J S, GIESY, J P, LO, K K W, YAMASHITA, N and LAM, P K S, "Human health risk assessment of organochlorines associated with fish consumption in a coastal city in China", *Environmental Pollution*, Vol 136, July 2005, pp 155-165.
- LEPELTIE, R M, LE BOZEC, H, GUERCHAIS, V, LEE, T K M and LO, K K W, "Tris-cyclometallated Iridium(III) Styryl Complexes and Their Saturated Analogues: Direct Functionalisation of Ir(4-Me-ppy)₃ and Hydrogen Transfer Process", *Organometallics*, Vol 24, November 2005, pp 6069-6072.
- LO, K K W, LEE, T K M and ZHANG, Y, "Luminescent Probes for Indole-binding Proteins Derived from Ruthenium(II) Polypyridine Complexes", *Inorganica Chimica Acta*, Vol 359, April 2006, pp 1845-1854.
- LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M and NG, D C M, "Luminescent Transition Metal Polypyridine Biotin Complexes", *Journal of the Chinese Chemical Society*, Vol 53, February 2006, pp 53-65.
- LO, K K W, HUI, W K, CHUNG, C K, TSANG, H K, LEE, T K M, LI, C C K, LAU, S Y and NG, D C M, "Luminescent Transition Metal Complex Biotin Conjugates", *Coordination Chemistry Reviews*, Vol 250, February 2006, pp 1724-1736.

- LIN Chun-chi** YU, R M K, LIN, C C, CHAN, P K, CHOW, S H, MURPHY, M B, CHAN, B P, MULLER, F, STRAHLE, U and CHENG, S H, “Four-Dimensional Imaging and Quantification of Gene Expression in Early Developing Zebrafish (*Danio rerio*) Embryos”, *Toxicological Sciences*, 90(2), April 2006, pp 529-538.
- MAK Ching Yee** MAK, C Y, YU, H, CHOI, N M C, SHEN, X, LAM, M H W, MARTIN, M, WU, R S S, WONG, P S, RICHARDSON, B J and LAM, P K S, “Okadaic acid, a causative toxin of diarrhetic shellfish poisoning, in green-lipped mussels *Perna viridis* from Hong Kong fish culture zones: Method development and monitoring”, *Marine Pollution Bulletin*, 51(8-12), November 2005, pp 1010-1017.
- NG Pui-lam** NG, P L, LEE, C S, KWONG, H L and CHAN, A S C, “Zinc Complex of Bipyridine Crown Macrocycle: Luminescence Sensing of Anions in Aqueous Media via the cooperative action of metal-ligand and hydrophobic interactions”, *Inorganic Chemistry Communications*, Vol 8, September 2005, pp 769-772.
- OR Ying Ying** WU, R S S and OR, Y Y, “Bioenergetics, growth and reproduction of amphipods are affected by moderately low oxygen regimes”, *Marine Ecology Progress Series*, Vol 297, August 2005, pp 215-223.
- SHI Lin** CHEUNG, P Y B, ZHANG, Q, ZHANG, Y, BAI, G, LIN, M C M, CHAN, B P L, FONG, C C, SHI, L, SHI, A Y F, CHUN, J, KUNG, H F and YANG, M, “Effect of Weijia on carbon tetrachloride induced chronic liver injury”, *World Journal of Gastroenterology*, Vol 12, March 2006, pp 1912-1917.
- SIT Wai-hung** CHAN, L L, SIT, W H, LAM, P K S, HSIEH, D P H, HODGKISS, I J, LO, S C L, WAN, J M F, HO, A Y T, CHOI, N M C, WANG, D Z and DUDGEON, D, “Identification and characterization of a ‘biomarker of toxicity’ from the proteome of the paralytic shellfish toxin-producing dinoflagellate *Alexandrium tamarense* (Dinophyceae)”, *Proteomics*, Vol 6, January 2006, pp 654-666.
- SZE Ka-shing** LO, K K W, TSANG, H K and SZE, K S, “Utilization of the Highly Environment-Sensitive Emission Properties of Rhenium(I) Amidodipyridoquinoxaline Biotin Complexes in the Development of Biological Probes”, *Inorganic Chemistry*, 45(4), February 2006, pp 1714-1722.
- TSANG Chui-shan** TENG, P F, TSANG, C S, YEUNG, H L, WONG, W L, KWONG, H L and WILLIAMS, I D, “New chiral bidentate ligands containing thiazolyl and pyridyl donor for copper-catalyzed asymmetric allylic oxidation of cyclohexene”, *Journal of Organometallic Chemistry*, Vol 691, May 2006, pp 2237-2244.
- TSANG Vic Wing Hang** LAM, K H, CAI, Z, WAI, H Y, TSANG, V W H, LAM, M H W, CHEUNG, R Y H, YU, H and LAM, P K S, “Identification of a new Irgarol-1051 related s-triazine species in coastal waters”, *Environmental Pollution*, Vol 136, July 2005, pp 221-230.

- TSE Edmund Siu-chuen** RICHARDSON, B J, TSE, E S C, DE LUCA-ABBOTT, S B, MARTIN, M and LAM, P K S, "Uptake and depuration of PAHs and chlorinated pesticides by semi-permeable membrane devices (SPMDs) and green-lipped mussels (*Perna viridis*)", *Marine Pollution Bulletin*, 51(8-12), November 2005, pp 975-993.
- WONG Hiu Lam** FUNG, C N, ZHENG, J S, CONNELL, D W, ZHANG, X, WONG, H L, GIESY, J P, FANG, Z and LAM, P K S, "Risks posed by trace organic contaminants in coastal sediments in the Pearl River Delta, China", *Marine Pollution Bulletin*, Vol 50, October 2005, pp 1036-1049.
- WONG, H L, GIESY, J P and LAM, P K S, "Organochlorine insecticides in mudflats of Hong Kong, China", *Archives of Environmental Contamination and Toxicology*, Vol 50, February 2006, pp 153-165.
- WONG Ho Yan** YU, K S H, WONG, H Y, YAU, W Y, WONG, Y S and TAM, N F Y, "Natural attenuation, biostimulation and bioaugmentation on biodegradation of polycyclic aromatic hydrocarbons (PAHs) in mangrove sediments", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 1071-1077.
- WONG Teresa Wing Yee** TAM, N F Y, WONG, W Y and WONG, Y S, "A case study on fuel oil contamination in a mangrove swamp in Hong Kong", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 1092-1100.
- XU Yan** HUNG, L H, XU, Y, LAM, C W, JEFFERSON, T A, HUNG, S K, YEUNG, L W Y, LAM, M H W, O'TOOLE, D K and LAM, P K S, "An assessment of the risks associated with polychlorinated biphenyls found in the stomach contents of stranded Indo-Pacific Humpback Dolphins (*Sousa chinensis*) and Finless Porpoises (*Neophocaena phocaenoides*) from Hong Kong waters", *Chemosphere*, Vol 63, May 2006, pp 845-852.
- XU, Y, YU, R M K, ZHANG, X W, MURPHY, M B, GIESY, J P, LAM, M H W, LAM, P K S, WU, R S S and YU, H, "Effects of PCBs and MeSO₂-PCBs on adrenocortical steroidogenesis in H295R human adrenocortical carcinoma cells", *Chemosphere*, Vol 63, May 2006, pp 772-784.
- SONG, M Y, JIANG, S Q T, XU, Y, LIU, H, LAM, P K S, O'TOOLE, D K, ZHANG, Q, GIESY, J P and JIANG, G, "AhR-active compounds in sediments of the Haihe and Dagu Rivers, China", *Chemosphere*, Vol 63, May 2006, pp 1222-1230.
- YANG Fung-yin** SHIN, P K S, CHEUNG, P H, YANG, F Y and CHEUNG, S G, "Intermittent exposure to reduced oxygen levels affects prey size selection and consumption in swimming crab *Thalamita danae* Stimpson", *Marine Pollution Bulletin*, Vol 51, November 2005, pp 1003-1009.
- YEUNG Leo Wai-yin** LEUNG, C C M, JEFFERSON, T A, HUNG, S K, ZHENG, J S, YEUNG, L W Y, RICHARDSON, B J and LAM, P K S, "Petroleum hydrocarbons, polycyclic aromatic hydrocarbons, organochlorine pesticides and polychlorinated biphenyls in tissues of Indo-Pacific humpback dolphins from south China waters", *Marine Pollution Bulletin*, 50(12), December 2005, pp 1713-1744.

GURUGE, K S, YEUNG, L W Y, YAMANAKA, N, MIYAZAKI, S, LAM, P K S, GIESY, J P, JONES, P D and YAMASHITA, N, "Gene expression profiles in rat liver treated with perfluorooctanoic acid (PFOA)", *Toxicological Sciences*, 89(1), January 2006, pp 93-107.

YEUNG, L W Y, SO, M K, JIANG, G B, TANIYASU, S, YAMASHITA, N, SONG, M Y, WU, Y N, LI, J G, GIESY, J P, GURUGE, K S and LAM, P K S, "Perfluorooctanesulfonate and related fluorochemicals in human blood samples from China", *Environmental Science & Technology*, Vol 40, February 2006, pp 715-720.

HUNG, L H, XU, Y, LAM, C W, JEFFERSON, T A, HUNG, S K, YEUNG, L W Y, LAM, M H W, O'TOOLE, D K and LAM, P K S, "An assessment of the risks associated with polychlorinated biphenyls found in the stomach contents of stranded Indo-Pacific Humpback Dolphins (*Sousa chinensis*) and Finless Porpoises (*Neophocaena phocaenoides*) from Hong Kong waters", *Chemosphere*, Vol 63, May 2006, pp 845-852.

CHOI, N M C, YEUNG, L W Y, SIU, W H L, SO, M K, JACK, R W, HSIEH, D P H, WU, R S S and LAM, P K S, "Relationships between tissue concentrations of paralytic shellfish toxins and antioxidative responses of clams, *Ruditapes philippinarum*", *Marine Pollution Bulletin*, Vol 52, May 2006, pp 572-597.

ZHANG Xiaowei

XU, Y, YU, R M K, ZHANG, X W, MURPHY, M B, GIESY, J P, LAM, M H W, LAM, P K S, WU, R S S and YU, H, "Effects of PCBs and MeSO₂-PCBs on adrenocortical steroidogenesis in H295R human adrenocortical carcinoma cells", *Chemosphere*, Vol 63, May 2006, pp 772-784.

Conference papers

CHAN Veronica Wai Yee

CHAN, V W Y and VRIJMOED, L L P, "Seasonal profiles of outdoor airborne fungi in the urban areas of Hong Kong", *Proceedings of the 10th International Conference on Indoor Air Quality and Climate (Indoor Air 2005)*, Beijing, PRC, 4-9 September 2005, p 73.

CHOW, P K, CHAN, V W Y and VRIJMOED, L L P, "An investigation on the occurrence of fungi and bacteria in the MVAC system in an office premise", *Proceedings of the 10th International Conference on Indoor Air Quality and Climate (Indoor Air 2005)*, Beijing, PRC, 4-9 September 2005, pp 1096-1100.

CHEN Eric Xiao-hua

CHEN, E X H, YU, R M K, CHIANG, M W L, LIM, P L and AU, D W T, "Relating telomerase expression to cell proliferation in whole medaka fish *in vivo*", *Proceedings of the 5th Intercongress Symposium of the Asia and Oceania Society for Comparative Endocrinology*, Asia and Oceania Society for Comparative Endocrinology, Bangkok, Thailand, 7-10 February 2006, pp 129-133.

CHIANG Wai Lun

CHEN, E X H, YU, R M K, CHIANG, M W L, LIM, P L and AU, D W T, "Relating telomerase expression to cell proliferation in whole medaka fish *in vivo*", *Proceedings of the 5th Intercongress Symposium of the Asia and Oceania Society for Comparative Endocrinology*, Asia and Oceania Society for Comparative Endocrinology, Bangkok, Thailand, 7-10 February 2006, pp 129-133.

- LEE Terence Kwok Ming** LO, K K W, HUI, W K, NG, D C M, CHUNG, C K, LAU, S Y, TSANG, H K, LEE, T K M and LI, C C K, "Luminescent Biotin-Transition Metal Complex Conjugates As New Biological Probes", 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.
- LEE, T K M, CHUNG, C K, LUI, L H, TSANG, H K, ZHU, N and LO, K K W, "New Luminescent Cyclometallated Iridium(III) Diimine Complexes as Biological Labelling Reagents", 16th International Conference on Photochemistry and Photophysics of Coordination Compounds, Pacific Grove, USA, 2-6 July 2005.
- LEE, T K M and LO, K K W, "Ruthenium(II) Amidodipyridoquinoxaline Biotin Complexes: Luminescent Probes for Avidin", 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.
- MOK Helen Oi Lam** MOK, H O L, YU, R M K, KONG, R Y C and AU, D W T, "Telomerase in fish. Relating telomerase expression to cell proliferation in whole medaka fish *in vivo*", *Proceedings of the 5th Intercongress Symposium of the Asia and Oceania Society for Comparative Endocrinology*, Asia and Oceania Society for Comparative Endocrinology, Bangkok, Thailand, 7-10 February 2006, pp 317-320.
- SZE Ka-shing** SZE, K S, TSANG, H K and LO, K K W, "Utilisation of the Highly Environment-Sensitive Emission Properties of Rhenium(I) Amidodipyridoquinoxaline Biotin Complexes in the Development of Biological Probes", 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.
- WONG Ho Yan** TAM, N F Y, WONG, H Y and WONG, Y S, "Fate of nitrogen in mangrove wetland", 9th International Congress on Ecology, Montreal, Canada, 4-6 November 2005.
- WU Yan** TAM, N F Y, WU, Y, CHUNG, A and WONG, M H, "Performance of cattails and mangroves in constructed wetland for municipal sewage", 2005 Asia-Pacific Conference on Marine Pollution Prevention and Control, Kaohsiung, Taiwan, 4-6 November 2005.
- ZHANG Kenneth Yin** ZHANG, K Y, CHUNG, C K, ZHU, N and LO, K K W, "New Luminescent Cyclometallated Iridium(III) Dipyridoquinoxaline- and Dipyridophenazine-biotin Complexes", 13th Symposium on Chemistry Postgraduate Research in Hong Kong, Hong Kong University of Science and Technology, Hong Kong, PRC, 22 April 2006.
- All other outputs*
- CHAN Ho Yan** CHAN, H Y, Effects of Dissolved Oxygen Concentration on the Marine Gastropod *Nassarius Festivus*, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 17 January 2006.
- CHEUNG Kwok-leung** CHEUNG, K L, Colonization of Macrobenthic Community in a Man-made Mudflat, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 24 May 2006.

- KWOK Chiu-wai** KWOK, C W, Effects of External Environmental and Internal Genetic Factors on Sonic Hedgehog Pathway in Zebrafish Embryonic Development, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 27 July 2005.
- LEE Joyce Mei-ngor** LEE, J M N, Studies on Catalytic Oxidation of Alkenes by (Salen)Ruthenium(III) Complexes and BF_3 -activated Oxidation of Hydrocarbons by Permanganate, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 29 August 2005.
- TAI Koon Keung** TAI, K K, Ecological Status and Conservation Value of Soft Shore Habitats in Hong Kong, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 22 August 2005.
- TSANG Wing-sze** TSANG, W S, Exploration in Natural Areas of Hong Kong, China, for Natural Enemies of the Formosan Subterranean Termite, *Coptotermes Formosanus Shiraki*, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 14 June 2006.
- TSE Ho-yan** TSE, H Y, Primary Screening of Chinese Materia Media for Angiogenesis Modulating Activities Using Zebrafish Embryos, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 27 June 2006.
- YEUNG Leo Wai-yin** YEUNG, L W Y, Perfluorooctanesulfonate and Related Fluorochemicals in Human Blood Samples from China and Biochemical Pathway Affected by Perfluorooctanoic Acid, MPhil Thesis, Department of Biology and Chemistry, City University of Hong Kong, Hong Kong, PRC, 11 May 2006.

DEPARTMENT OF BUILDING AND CONSTRUCTION

Journal publications

- CHAN Kwok Keung** TAM, V W Y, TAM, C M, ZENG, S X and CHAN, K K, "Environmental Performance Measurement Indicators in Construction", *Building and Environment*, 41(2), February 2006, pp 164-173.
- CHOW Ying-wah** XIAO, Y Q, LI, Q, LI, Z N, CHOW, Y W and LI, G Q, "Probability Distributions of Extreme Wind Speed and Its Occurrence Interval", *Engineering Structures*, Vol 28, 2006, pp 1173-1181.
- MAN Siu-kuen** FUNG, I W H, TAM, C M, TUNG, C F K and MAN, S K, "Safety Cultural Divergences among Management, Supervisory and Worker Groups in Hong Kong Construction Industry", *International Journal of Project Management*, 23(7), October 2005, pp 504-512.
- NG Ching Tai** NG, C T and LAM, H, "Optimization design of tall buildings under multiple design criteria", *International Journal of Applied Mathematics and Mechanics*, Vol 4, Nov 2005, pp 35-48.

- TUNG Cheuk Fan Karen** FUNG, I W H, TAM, C M, TUNG, C F K and MAN, S K, "Safety Cultural Divergences among Management, Supervisory and Worker Groups in Hong Kong Construction Industry", *International Journal of Project Management*, 23(7), October 2005, pp 504-512.
- LO, T Y, FUNG, I W H and TUNG, C F K, "Construction Delays in Hong Kong Civil Engineering Projects", *Journal of Construction Engineering and Management - ASCE*, 132(6), USA, June 2006, pp 636-649.
- WONG Christy Wing-ying** TANG, C M, WONG, C W Y, LEUNG, A Y T and LAM, K C, "Selection of funding schemes by a borrowing decision model: A Hong Kong case study", *Construction Management and Economics*, 24(4), April 2006, pp 349-365.

Conference papers

- CUI Shuang** LIM, C W and CUI, S, "Symplectic elasticity approach for thin plate bending", 中國科協第104次青年科學家論壇: 複雜高維系統非線性動力學的新進展及挑戰, PRC, 17-20 May 2006.
- LIM, C W and CUI, S, "Symplectic elasticity approach for thin plate bending", *Annual Conference of the Hong Kong Society of Theoretical and Applied Mechanics (HKSTAM)*, Hong Kong, PRC, 11 March 2006, p 8.
- HUANG Yue** HUANG, Y and WU, Y, "Ductility of hybrid fiber reinforced concrete", *Proceedings of the International Symposium on Innovation & Sustainability of Structures in Civil Engineering (ISISS'2005)*, Vol 3, Nanjing, PRC, 20-22 November 2005, pp 2314-2326.
- LIU Pengfei** WU, J R, LIU, P and LI, Q, "Effects on Nonlinear Damping and Time Constant on Wind-induced Responses of a 79-storey Tall Building", *Proceedings of the Sixth International Conference on Tall Buildings (ICTB-VI)*, Hong Kong, PRC, 6-8 December 2005, pp 468-476.
- WONG Christy Wing-ying** TANG, C M, WONG, C W Y, LEUNG, A Y T and LAM, K C, "A GA-based borrowing strategy for construction SMEs in Hong Kong.", *21st ARCOM Annual Conference 2005*, London, United Kingdom, 7-9 September 2005, p 1.
- WONG, C W Y and LU, J W Z, "An alternative approach of study on the street level air pollution in Hong Kong", *Proceedings of the Annual Conference of the Hong Kong Society of Theoretical and Applied Mechanics (HKSTAM)*, Hong Kong, PRC, 11 March 2006.

Creative and literary works, consulting reports and case studies

- CHAN Kwok Keung** TAM, C M and CHAN, K K, *Report on Comparing and Analyzing Construction Productivity and Costs in Hong Kong*, Hanison Construction Co Ltd, Hong Kong, PRC, April 2006.

All other outputs

- FAN Lili** FAN, L, Structural Health Monitoring Based on Principal Components Analysis Implemented on a Distributed and Open System, MPhil Thesis, Department of Building and Construction, City University of Hong Kong, Hong Kong, PRC, 10 May 2006.
- LAW Lai-lin** LAW, L L, A Study on the Effect of Housing Attributes on the Price of Existing Building in the Central District: a Hong Kong Perspective, MPhil Thesis, Department of Building and Construction, City University of Hong Kong, Hong Kong, PRC, 22 May 2006.

DEPARTMENT OF COMPUTER SCIENCE***Journal publications***

- CHEUNG Gary Ka Lok** CHEUNG, G K L, LAU, R W H and LI, F W B, “Efficient Rendering of Deformable Objects for Real-Time Applications”, *Computer Animation and Virtual Worlds*, 17(1), John Wiley & Sons, February 2006, pp 69-81.
- CHOW Kin-wah** CHOW, K W, LI, Q and JIA, W, “Energy-Aware Routing Analysis in Wireless Sensors Network”, *Lecture Notes in Computer Science*, Vol 3842, 2006, pp 345-349, (Proceedings of the 8th Asia Pacific Web Conference (APWeb Workshops 2006), Harbin, PRC).
- FENG Min** FENG, M, ZHANG, W and LIU, W Y, “Symbol Recognition Using Bipartite Transformation Distance and Angular Distribution Alignment”, *Lecture Notes in Computer Science*, Vol 3926, 2005, pp 408-417, (The Sixth IAPR International Workshop on Graphics Recognition (GREC 2005), Hong Kong, PRC, 25-26, August 2005).
- FU Haohuan** FU, H, LI, X, SHEN, J and JIA, W, “Efficient Multiplexing Protocol for Low Bit Rate Multi-point Video Conferencing”, *Lecture Notes in Computer Science*, Vol 3794, December 2005, pp 478-487, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).
- JIA, W, FU, H and SHEN, J, “Object-Oriented Design and Implementations of 3G-324M Protocol Stack”, *Lecture Notes in Computer Science*, Vol 3719, 2005, pp 435-441, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).
- JIA, W, HAN, B, SHEN, J and FU, H, “Next Generation Networks Architecture and Layered End-to-End QoS Control”, *Lecture Notes in Computer Science*, Vol 3758, 2005, pp 1055-1064, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).
- HAN Bo** YUEN, M C, SHEN, J, JIA, W and HAN, B, “Simplified Message Transformation for Optimization of Message Processing in 3G-324M Control Protocol”, *Lecture Notes in Computer Science*, Vol 3619, August 2005, pp 64-73, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).

JIA, W, HAN, B, SHEN, J and FU, H, "Next Generation Networks Architecture and Layered End-to-End QoS Control", *Lecture Notes in Computer Science*, Vol 3758, 2005, pp 1055-1064, [http://springerlink.com/\(detnl4452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detnl4452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).

HAN Song

HAN, S and CHAN, E, "Probabilistic Continuous Update Scheme in Location Dependent Continuous Queries", *Lecture Notes in Computer Science*, Vol 3756, Hong Kong, PRC, October 2005, pp 494-504.

CHEN, Y, CHAN, E and HAN, S, "Energy Efficient Multipath Routing in Large Scale Sensor Networks with Multiple Sink Nodes", *Lecture Notes in Computer Science*, Vol 3756, October 2005, pp 390-399.

ZOU, F, WANG, P F L, DENG, X, HAN, S and WANG, L, "Stop Word List Construction and Application in Chinese Language Processing", *WSEAS Transactions on Information Science and Applications*, 3(6), June 2006, pp 1036-1045.

ZOU, F, WANG, P F L, DENG, X and HAN, S, "Automatic Identification of Chinese Stop Words", *Research on Computing Science*, Vol 18, 2006, pp 151-163.

HO Shu-lim

KOMURA, T, HO, S L and LAU, R W H, "Animating Reactive Motion Using Momentum-based Inverse Kinematics", *Computer Animation and Virtual Worlds*, 16(3), 2005, pp 213-223.

HU Bessie Chunyan

HU, B C, WONG, D S, ZHANG, Z F and DENG, X, "Key Replacement Attack Against a Generic Construction of Certificateless Signature", *Lecture Notes in Computer Science*, Vol 4058, 2006, pp 235-246, <http://www.springer.com>.

HUANG Guanglin

LIU, W Y, DENG, X, HUANG, G and FU, Y, "An Antiphishing Strategy Based on Visual Similarity Assessment", *IEEE Internet Computing*, 10(2), IEEE Computer Society, March/April 2006, pp 58-65.

HUANG, G and LIU, W Y, "Using Web Based Answer Hunting System to Promote Collaborative Learning", *Lecture Notes in Computer Science*, Vol 3583, 2005, pp 387-396, (Proceedings of the 4th International Conference on Web-Based Learning (ICWL2005), Hong Kong, PRC, August 2005).

LAI Ying Kit

LAI, Y K, POON, C K and SHI, B, "Approximate Colored Range Queries", *Lecture Notes in Computer Science*, Vol 3827, 2005, pp 360-369, (16th International Symposium on Algorithms and Computation (ISAAC'05), December 2005, Hainan, China).

LAM Sau Yin

LAM, S Y, KONG, S C and KWOK, L F, "Extending a rich web-based cognitive tool to a mobile computer-supported collaborative learning environment", *International Journal of Continuing Engineering Education and Life-Long Learning*, 16(3/4), 2006, pp 238-254.

LAM, S Y, KWOK, L F and KONG, S C, "A Collaborative Framework of Fraction Learning on Mobile Platform", *The Official Journal of Global Chinese Society FOR Computers in Education (全球華人計算機教育應用學會)*, 3(1/2), 2005, pp 96-115, http://www3.fed.cuhk.edu.hk/gcjce/journal_v3.asp.

- LIU Jie** LI, M M, LIU, J and YAO, F, “Min-energy Voltage Allocation for Tree-structured Tasks”, *Journal of Combinatorial Optimization*, 11(3), May 2006, pp 305-319, [http://www.springerlink.com/\(jumofgmanvelyu45oslb4y45\)/app/home/contribution.asp?referrer=par](http://www.springerlink.com/(jumofgmanvelyu45oslb4y45)/app/home/contribution.asp?referrer=par).
- PAN Zailiang** PAN, Z and NGO, C W, “Selective Object Stabilization for Home Video Consumers”, *IEEE Transactions on Consumer Electronics*, 51(4), November 2005, pp 1074-1084.
- SHEN Ji** YUEN, M C, SHEN, J, JIA, W and HAN, B, “Simplified Message Transformation for Optimization of Message Processing in 3G-324M Control Protocol”, *Lecture Notes in Computer Science*, Vol 3619, August 2005, pp 64-73, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).
- FU, H, LI, X, SHEN, J and JIA, W, “Efficient Multiplexing Protocol for Low Bit Rate Multi-point Video Conferencing”, *Lecture Notes in Computer Science*, Vol 3794, December 2005, pp 478-487, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).
- JIA, W, FU, H and SHEN, J, “Object-Oriented Design and Implementations of 3G-324M Protocol Stack”, *Lecture Notes in Computer Science*, Vol 3719, 2005, pp 435-441, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).
- JIA, W, HAN, B, SHEN, J and FU, H, “Next Generation Networks Architecture and Layered End-to-End QoS Control”, *Lecture Notes in Computer Science*, Vol 3758, 2005, pp 1055-1064, [http://springerlink.com/\(detn14452cje0255acs3n3no\)/app/home/contribution.asp?referrer=parent&](http://springerlink.com/(detn14452cje0255acs3n3no)/app/home/contribution.asp?referrer=parent&).
- SHIU Hoi Cheung** SHIU, H C, FONG, J and BIUK-AGHAI, R, “Reverse engineering XML documents into DTD Graph with SAX”, *WSEAS Transactions on Computers*, 5(6), June 2006, pp 1236-1241.
- FONG, J, CHEUNG, S K, SHIU, H C and CHEUNG, C C, “Visualization of XML Conceptual Schema Recovered from XML Schema Definition”, *International Journal of Web Information Systems*, 1(4), December 2005, pp 209-222.
- TAN Hung Khoon** JIANG, H, NGO, C W and TAN, H K, “Gestalt-based Feature Similarity Measure in Trademark Database”, *Pattern Recognition*, No 39, May 2006, pp 988-1001.
- TONG Xin** TONG, X and WONG, H S, “3D Head Model Classification using Optimized EGI”, *Proceedings of SPIE*, Vol 6056, January 2006, published on Web, <http://spiedl.aip.org/dbt/dbt.jsp?KEY=PSISDG&Volume=6056&Issue=1&bproc=volrange&scod=6000+-+6099>, (18th Annual Symposium Electronic Imaging Science and Technology (EI 2006), San Jose, California, USA, 15-19 January 2006).
- YANG Guomin** YANG, G, WONG, D S, DENG, X and WANG, H X, “Anonymous Signature Schemes”, *Lecture Notes in Computer Science*, Vol 3958, 2006, pp 347-363, <http://www.springer.com>.

ZHU, W, YANG, G and WONG, D S, "An Efficient Identity-Based Key Exchange Protocol with KGS Forward Secrecy for Low-Power Devices", *Lecture Notes in Computer Science*, Vol 3828, 2005, pp 500-509, <http://www.springer.com>.

YANG, G, WONG, D S and DENG, X, "Analysis and Improvement of a Signcryption Scheme with Key Privacy", *Lecture Notes in Computer Science*, Vol 3650, 2005, pp 218-232, <http://www.springer.com>.

YANG, G, WONG, D S and DENG, X, "Deposit-case attack against secure roaming", *Lecture Notes in Computer Science*, Vol 3574, 2005, pp 471-428.

YANG, G, WONG, D S and DENG, X, "Efficient Anonymous Roaming and its security analysis", *Lecture Notes in Computer Science*, Vol 3531, 2005, pp 334-349.

YANG Yu

SHAN, Z, YANG, Y, LI, Q, LUO, Y and PENG, Z, "A Light-Weighted Approach to Workflow View Implementation", *Lecture Notes in Computer Science*, Vol 3841, 2006, pp 1059-1070, (Proceedings of the 8th Asia Pacific Web Conference (APWeb Workshops 2006), Harbin, PRC).

YIU Wai Keung

POON, C K and YIU, W K, "Opportunistic Data Structures for Range Queries", *Journal of Combinatorial Optimization*, 11(2), March 2006, pp 145-154.

POON, C K and YIU, W K, "Opportunistic Data Structures for Range Queries", *Lecture Notes in Computer Science*, Vol 3595, 2005, pp 560-569, (11th International Conference in Computing and Combinatorics (COCOON'05), August 2005, Kunming, China).

YU Feiyang

YU, F, IP, H S H and LEUNG, C H C, "A Heuristic Search for Relevant Images on the Web", *Lecture Notes in Computer Science*, Vol 3568, 2005, pp 599-608, (Proceedings of International Conference on Image and Video Retrieval (CIVR2005), Singapore, 20-22 July 2005).

YUEN Chi Hang

YUEN, C H and POON, C K, "Relational Index Support for XPath Axes", *Lecture Notes in Computer Science*, Vol 3671, 2005, pp 84-98, (3rd International XML Database Symposium (XSym'05), August 2005, Trondheim, Norway).

ZHU Wei

TIAN, X, WONG, D S and ZHU, W, "Analysis and Improvement of an Authenticated Key Exchange Protocol for Sensor Networks", *IEEE Communications Letters*, 9(11), November 2005, pp 970-972.

ZHU, W, YANG, G and WONG, D S, "An Efficient Identity-Based Key Exchange Protocol with KGS Forward Secrecy for Low-Power Devices", *Lecture Notes in Computer Science*, Vol 3828, 2005, pp 500-509, <http://www.springer.com>.

ZHU, W, WONG, D S and LEE, C H, "Cryptanalysis of a Suite of Deniable Authentication Protocols", *IEEE Communications Letters*, 10(6), June 2006, pp 504-506.

LIU, J K, TSANG, P P, WONG, D S and ZHU, W, "Universal Custodian-Hiding Verifiable Encryption for Discrete Logarithms", *Lecture Notes in Computer Science*, Vol 3935, 2006, pp 389-409, <http://www.springer.com>.

ZOU Feng

ZOU, F, WANG, P F L, DENG, X, HAN, S and WANG, L, "Stop Word List Construction and Application in Chinese Language Processing", *WSEAS Transactions on Information Science and Applications*, 3(6), June 2006, pp 1036-1045.

ZOU, F, WANG, P F L, DENG, X and HAN, S, "Automatic Identification of Chinese Stop Words", *Research on Computing Science*, Vol 18, 2006, pp 151-163.

Conference papers

FU Haohuan

LIN, L, FU, H and JIA, W, "An Efficient Admission Control for IEEE 802.11 Networks Based on Throughput Analyses of (Un)saturated Channel", *Proceedings of the 2005 IEEE Global Telecommunications Conference (IEEE GLOBECOM 2005)*, Vol 5, USA, 28 November 2005 - 2 December 2005, pp 3017-3021, <http://ieeexplore.ieee.org/search/searchresult.jsp?queryText=%28jia+%3Cin%3E+au%29+%3Cand%3E+>.

JIA, W, HAN, B, SHEN, J, FU, H and YUEN, M C, "Efficient Implementation of 3G-324M Protocol Stack for Multimedia Communication", *Proceedings of the 2005 11th International Conference on Parallel and Distributed Systems (ICPADS'05)*, Vol 1, IEEE, Fukuoka, Japan, 20-22 July 2005, pp 559-605, <http://ieeexplore.ieee.org/search/searchresult.jsp?queryText=%28jia+%3Cin%3E+au%29+%3Cand%3E+>.

JIA, W, FU, H and SHEN, J, "Efficient Implementation for Videoconferencing in 3G Wireless Networks", *Proceedings of the 2005 Global Mobile Congress (GMC 2005)*, Chongqing, PRC, 10-12 October 2005, published in CD Rom, http://delson.org/mc/paper_GMC05.htm.

HAN Bo

JIA, W, HAN, B, SHEN, J, FU, H and YUEN, M C, "Efficient Implementation of 3G-324M Protocol Stack for Multimedia Communication", *Proceedings of the 2005 11th International Conference on Parallel and Distributed Systems (ICPADS'05)*, Vol 1, IEEE, Fukuoka, Japan, 20-22 July 2005, pp 559-605, <http://ieeexplore.ieee.org/search/searchresult.jsp?queryText=%28jia+%3Cin%3E+au%29+%3Cand%3E+>.

HAN, B and JIA, W, "Design and Analysis of Connected Dominating Set Formation for Topology Control in Wireless Ad Hoc Networks", *Proceedings of the IEEE 14th International Conference on Computer Communications and Networks (ICCCN 2005)*, USA, 17-19 October 2005, pp 7-12, <http://ieeexplore.ieee.org/search/searchresult.jsp?queryText=%28jia+%3Cin%3E+au%29+%3Cand%3E+>.

HAN Song

ZOU, F, WANG, P F L, DENG, X and HAN, S, "Evaluation of Stop Word Lists in Chinese Language", *Proceedings of the 5th International Conference on Language Resources and Evaluation (LREC 2006)*, Genoa, Italy, 24-26 May 2006, pp 2204-2507.

ZOU, F, WANG, P F L, DENG, X, HAN, S and WANG, L, "Automatic Construction of Chinese Stop Word List", *Proceedings of the 5th WSEAS international Conference on Applied Computer Science (ACOS'06)*, Hangzhou, PRC, 16-18 April 2006, pp 1010-1015.

XIONG, M, HAN, S and LAM, K Y, "A Deferrable Scheduling Algorithm for Real-Time Transactions Maintaining Data Freshness", *Proceedings of the 26th IEEE Real-Time Systems Symposium (RTSS 2005)*, Miami, USA, December 2005, pp 27-37.

- HAN, S, CHAN, E, CHENG, R and LAM, K Y, "A Statistics-Based Sensor Selection Scheme for Continuous Probabilistic Queries in Sensor Networks", *Proceedings of the 11th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA 2005)*, Hong Kong, PRC, August 2005, pp 331-336.
- HO Shu-lim** HO, S L, KOMURA, T and LAU, R W H, "Computing Inverse Kinematics with Linear Programming", *Proceedings of the ACM Symposium on Virtual Reality Software Technology 2005 (VRST 2005)*, Monterey, California, USA, 7-9 November, 2005, pp 163-166.
- HUANG Guanglin** LIU, W Y, HUANG, G, LIU, X Y, DENG, X and ZHANG, M, "Phishing Webpage Detection", *Proceedings of the 8th International Conference on Document Analysis and Recognition (ICDAR 2005)*, Seoul, South Korea, 29 August 2005 - 1 September 2005, pp 560-564, <http://doi.ieeecomputersociety.org/10.1109/ICDAR.2005.190>.
- LAU Pui Man** LAU, P M and LEE, C S V, "Real Time Concurrency Control for Data Intensive Applications", *Proceedings of the 11th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA 2005)*, Hong Kong, PRC, 17-19 August 2005, pp 337-342.
- LAU, P M and LEE, C S V, "Maintaining Temporal Consistency in Data Intensive Applications", *Proceedings of the International Conference on Computing and Informatics (ICOCI 2006)*, Kuala Lumpur, Malaysia, 6-8 June 2006, published in CD Rom.
- PAN Zailiang** NGO, C W, PAN, Z, WEI, X, WU, X, TAN, H K and ZHAO, W, "Motion Driven Approaches to Shot Boundary Detection, Low-Level Feature Extraction and BBC Rushes Characterization at TRECVID 2005", *Proceedings of the TRECVID Workshop*, National Institute of Standards and Technology (NIST), Gaithersburg, USA, 14-15 November 2005, published online.
- SHA Yang** WONG, H S, MA, B, SHA, Y and IP, H S H, "Hierarchical Indexing for 3D Head Model Retrieval Based on Kernel PCA", *Proceedings of the 9th International Conference on Information Visualisation (IV '05)*, IEEE Computer Society, London, United Kingdom, 2005, pp 848-853.
- IP, H S H, SHA, Y, FOK, A W P and LEE, S W, "Pocket School – Monitoring Student Performance on Mobile Devices", *Proceedings of the 5th IASTED International Conference on Web-based Education (WBE 2006)*, Puerto Vallarta, Mexico, 23-25 January 2006, pp 51-56.
- SHEN Ji** JIA, W, HAN, B, SHEN, J, FU, H and YUEN, M C, "Efficient Implementation of 3G-324M Protocol Stack for Multimedia Communication", *Proceedings of the 2005 11th International Conference on Parallel and Distributed Systems (ICPADS'05)*, Vol 1, IEEE, Fukuoka, Japan, 20-22 July 2005, pp 559-605, <http://ieeexplore.ieee.org/search/searchresult.jsp?queryText=%28jia+%3Cin%3E+au%29+%3Cand%3E+>.
- JIA, W, FU, H and SHEN, J, "Efficient Implementation for Videoconferencing in 3G Wireless Networks", *Proceedings of the 2005 Global Mobile Congress (GMC 2005)*, Chongqing, PRC, 10-12 October 2005, published in CD Rom, http://delson.org/mc/paper_GMC05.htm.

- TAN Hung Khoon** TAN, H K and NGO, C W, “Common Pattern Discovery using Earth Mover’s Distance and Local Flow Maximization”, *Proceedings of the 10th IEEE International Conference on Computer Vision (ICCV 2005)*, Vol 2, Beijing, PRC, 15-21 October 2005, pp 1222-1229.
- NGO, C W, PAN, Z, WEI, X, WU, X, TAN, H K and ZHAO, W, “Motion Driven Approaches to Shot Boundary Detection, Low-Level Feature Extraction and BBC Rushes Characterization at TRECVID 2005”, *Proceedings of the TRECVID Workshop*, National Institute of Standards and Technology (NIST), Gaithersburg, USA, 14-15 November 2005, published online.
- TANG Wai Yuen** TANG, W Y and KWOK, L F, “Automatic Extraction of Learning Object Metadata (LOM) from HTML Web Pages”, *Proceedings of the 13th International Conference on Computers in Education 2005 - Towards Sustainable and Scalable Educational Innovations informed by the Learning Science (ICCE 2005)*, Looi, Jonassen and Ikeda (eds), Singapore, 28 November 2005 - 3 December 2005, pp 460-467.
- TSANG Chi Ho** TSANG, C H, KWONG, S and WANG, H, “Anomaly Intrusion Detection using Multi-Objective Genetic Fuzzy System and Agent-based Evolutionary Computation Framework”, *Proceedings of the 5th 2005 IEEE International Conference on Data Mining (ICDM ‘05)*, Houston, Texas, USA, 27-30 November 2005, pp 789-792.
- TSANG, C H and KWONG, S, “Multi-agent Intrusion Detection System in Industrial Network Using Ant Colony Clustering Approach and Unsupervised Feature Extraction”, *Proceedings of the IEEE International Conference on Industrial Technology (IEEE ICIT 2005)*, Hong Kong, PRC, 14-17 December 2005, pp 51-56.
- YANG Yu** YANG, Y, YU, M H, LI, Q and ZHUANG, Y, “Sketch-based Retrieval on Flash Movies via Primary Scenes”, *Proceedings of the 7th IEEE International Symposium on Multimedia (ISM 2005)*, California, USA, December 2005, pp 605-610.
- YEUNG Pui Fong** WONG, H S, MA, B, YEUNG, P F and IP, H S H, “3D Head Model Retrieval Based on a Single View Query”, *Proceedings of the International Conference on Computer Graphics, Imaging and Vision (CGIV ‘05)*, Beijing, PRC, July 2005, pp 7-11.
- YEUNG, P F, WONG, H S, MA, B and IP, H S H, “Relevance Vector Machine for Content-Based Retrieval of 3D Head Models”, *Proceedings of the 9th International Conference on Information Visualisation (IV ‘05)*, London, United Kingdom, 2005, pp 425-429.
- YU Yajie** LIU, Y, YU, Y and LIU, W Y, “Online Segmentation of Freehand Stroke by Dynamic Programming”, *Proceedings of the 8th International Conference on Documents Analysis and Recognition (ICDAR 2005)*, Seoul, South Korea, 29 August 2005 - 1 September 2005, pp 197-201, <http://doi.ieeecomputersociety.org/10.1109/ICDAR.2005.180>.
- ZOU Feng** ZOU, F, WANG, P F L, DENG, X, HAN, S and WANG, L, “Automatic Construction of Chinese Stop Word List”, *Proceedings of the 5th WSEAS international Conference on Applied Computer Science (ACOS’06)*, Hangzhou, PRC, 16-18 April 2006, pp 1010-1015.

WANG, P F L, DENG, X and ZOU, F, "Towards Unified Chinese Segmentation Algorithm", *Proceedings of the 5th International Conference on Language Resources and Evaluation (LREC 2006)*, Italy, 24-26 May 2006, pp 379-384, http://www.lrec-conf.org/lrec2006/article.php?id_article=32.

ZOU, F, WANG, P F L, DENG, X and HAN, S, "Evaluation of Stop Word Lists in Chinese Language", *Proceedings of the 5th International Conference on Language Resources and Evaluation (LREC 2006)*, Genoa, Italy, 24-26 May 2006, pp 2204-2507.

All other outputs

CHAN Kong-ping

CHAN, K P, Dynamic Sound Rendering for Distributed Virtual Environments, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, November 2005.

CHAN Kwok-on

CHAN, K O, A Collision Detection Framework for Deformable NURBS Surfaces, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, February 2006.

CHAN Yew Meng

CHAN, Y M, Processing Mobile Read-only Transactions in Broadcast Environments with Group Consistency, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, June 2005.

CHAN Eric Ying-kwong

CHAN, Y K E, A Study on the Use of Implementation Information for Selecting Specification-Based Test Cases, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, August 2005.

CHEUNG Gary Ka Lok

CHEUNG, G K L, Incremental Rendering of Deformable Trimmed NURBS Surfaces, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, February 2006.

CHIU Calvin Kar Ho

CHIU, C K H, A Study on the Design of Real-Time Active Visual Surveillance System for Wireless Network, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, July 2005.

FENG Min

FENG, M, First Place, IAPR TC10 (International Association for Pattern Recognition, Technical Committee on Graphics Recognition), 2nd Symbol Recognition Contest in the Sixth International Workshop on Graphics Recognition (GREC 2005), Hong Kong, PRC, 25-26 August 2005.

FU Haohuan

FU, H, Efficient Multimedia Data Transmission over Heterogeneous Networks, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, September 2005.

HO Shu-lim

HO, S L, Real-time Reactive Motion Synthesis, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, June 2006.

- HUANG Guanglin** HUANG, G, Web Document Analysis and Its Application to Anti-Phishing, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, January 2006.
- HUANG, G and WANG, M, Third Prize, Sun Microsystems (China) Inc., Java Cup China Software Development Competition 2005, PRC, October 2005.
- LAI Ying Kit** LAI, Y K, Approximate Colored Range and Point Enclosure Queries, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, June 2006.
- LEUNG Tat Wan** LEUNG, T W, Polyphonic Song Analysis and Representation for Query-By-Singing Systems, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, August 2005.
- LI Xiang** LI, X, Proxy-Based Mobile Data Caching in Cellular Systems, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, August 2005.
- LIU Jie** LIU, J, Algorithm Design for Min-Energy Voltage Allocation and Incentive Compatible Tournament Selection Protocol, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, November 2005.
- SHEN Ji** SHEN, J, Efficient 3G Multimedia Communication Control Protocol (H.245) and Implementations, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, September 2005.
- TSANG Chi Ho** TSANG, C H, Network-Based Anomaly Intrusion Detection using Ant Colony Clustering Model and Genetic-Fuzzy Rule Mining Approach, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, February 2006.
- WANG Meng** WANG, M, Real-time Shadow Generation for 3D Environments, MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, May 2006.
- HUANG, G and WANG, M, Third Prize, Sun Microsystems (China) Inc., Java Cup China Software Development Competition 2005, PRC, October 2005.

DEPARTMENT OF ELECTRONIC ENGINEERING

Scholarly books, monographs and chapters

- SHUM Yuk Hei** LEE, K F, LUK, K M and SHUM, Y H, "Dual-and Multi-Frequency Microstrip Antennas", *Encyclopedia of RR and Microwave Engineering*, Vol 2, K Chang (ed), Wiley-Interscience, USA, 2005, pp 1098-1116.

Journal publications

- CHEN Shifeng** YUEN, K S Y, LAM, H S, FONG, C K, CHEN, S F and CHOW, C K, "A Robust Iterative Hypothesis Testing Design of the Repeated Genetic Algorithm", *Image and Vision Computing*, 23(11), October 2005, pp 972-980.
- CHOI Hok-yin** SEN, B, WONG, H, FILIP, V, CHOI, H Y, SARKAR, C K, CHAN, M, KOK, C W and POON, M C, "Current Transport and High-Field Reliability of Aluminum/Hafnium Oxide/Silicon Structure", *Thin Solid Films*, Vol 504, May 2006, pp 312-316.
- CHOI, H Y, WONG, H, FILIP, V, SEN, B, KOK, C W, CHAN, M and POON, M C, "Stressing Effects on the Charge Trapping of Silicon Oxynitride Prepared by Thermal Oxidation of LPCVD Si-Rich Silicon Nitride", *Thin Solid Films*, Vol 504, May 2006, pp 7-10.
- CHOY Kwok Hung** LEUNG, C S, WONG, T T, LAM, P M and CHOY, K H, "An RBF-based Compression Method for Image-based Relighting", *IEEE Transactions on Image Processing*, 15(4), April 2006, pp 1031-1041.
- CHU Yiu Man** CHU, Y M, CHIANG, K S and LIU, Q, "Widely Tunable Optical Bandpass Filter by Use of Polymer Long-period Waveguide Gratings", *Applied Optics*, 45(12), April 2006, pp 2755-2760.
- FONG Chun-ki** YUEN, K S Y, LAM, H S, FONG, C K, CHEN, S F and CHOW, C K, "A Robust Iterative Hypothesis Testing Design of the Repeated Genetic Algorithm", *Image and Vision Computing*, 23(11), October 2005, pp 972-980.
- LAU Ka Lam** LAU, K L, LUK, K M and LEE, K F, "Design of a Circularly-polarized Vertical Patch Antenna", *IEEE Transactions on Antennas and Propagation*, 54(4), April 2006, pp 1332-1335.
- LAU, K L, WONG, H, MAK, C L, LUK, K M and LEE, K F, "A Vertical Patch Antenna for Dual-band Operation", *IEEE Antennas and Wireless Propagation Letters*, Vol 5, 2006, pp 95-97.
- LAU, K L, WONG, H and LUK, K M, "A Full-wavelength Circularly Polarized Slot Antenna", *IEEE Transactions on Antennas and Propagation*, 54(2, Part 2), February 2006, pp 741-743.
- LAU Kwan Shek** LAU, K S and PAO, D C W, "Collision Avoidance and Recovery for Multicast Communications in Ad Hoc Networks", *IEICE Transactions on Communications*, E88B(7), July 2005, pp 2937-2943.
- LAU Pui-yi** WONG, H, LAU, P Y, MAK, K M and LUK, K M, "Small Circularly Polarized Folded Patch Antenna", *Electronics Letters*, 41(25), December 2005, pp 1363-1364.
- WANG, D X, YUNG, E K N, CHEN, R S and LAU, P Y, "Scattering Characteristics of General Bi-Anisotropic Objects using Surface Integral Equations", *Radio Science*, 41(2), April 2006, published on web.

- LEUNG Kai Chi** LI, S L, LEUNG, K C, CHENG, L M and CHAN, C K, "A Novel Image Hiding Scheme Based on Block Difference", *Pattern Recognition*, 39(6), June 2006, pp 1168-1176.
- LI Suk-ling** LI, S L, LEUNG, K C, CHENG, L M and CHAN, C K, "A Novel Image Hiding Scheme Based on Block Difference", *Pattern Recognition*, 39(6), June 2006, pp 1168-1176.
- LIU Ying-kin** LIU, Y K, CHENG, L M and CHENG, L L, "Load Distributing Algorithm using Fuzzy Neural Network", *WSEAS Transactions on Communications*, 3(5), March 2006, pp 527-534.
- LIYAKATHALI Lafir Ali** LIYAKATHALI, L A, CHAN, Y C and ALAM, M O, "The Effect of Thermal Cycling on the Contact Resistance of Anisotropic Conductive Joints", *Soldering & Surface Mount Technology*, 17(3), July 2005, pp 20-31.
- LO Kai Man** TAN, Y Y, YAU, C H, LO, K M, YU, R W S, MOK, P L and FONG, A S S, "Design and Implementation of a Java Processor", *IEE Proceedings - Computers and Digital Techniques*, 153(1), January 2006, pp 20-30.
- TAN, Y Y, YAU, C H, LO, K M, MOK, P L and FONG, A S S, "A Novel JAVA Processor for Embedded Devices", *Lecture Notes in Computer Science*, Vol 3553/2005, Springer, August 2005, pp 112-121, (ISSN 0302-9743, ISBN 3-540-26969-X).
- MA Bessie Ying** MA, B Y and CHAN, Y C, "A Study of the Assembly Process and Reliability Performance of Contactless Smart Cards Fabricated Using a Non-Conductive Adhesive Film", *Journal of Adhesion Science and Technology*, 20(2-3), February 2006, pp 245-259.
- MAN Kwan-pok** WONG, K W, MAN, K P, LI, S and LIAO, X F, "A More Secure Chaotic Cryptographic Scheme based on Dynamic Look-up Table", *Circuits Systems and Signal Processing*, 24(5), October 2005, pp 571-584.
- MOK Pak Lun** TAN, Y Y, YAU, C H, LO, K M, YU, R W S, MOK, P L and FONG, A S S, "Design and Implementation of a Java Processor", *IEE Proceedings - Computers and Digital Techniques*, 153(1), January 2006, pp 20-30.
- YAU, C H, TAN, Y Y, MOK, P L, YU, R W S and FONG, A S S, "A Hardware/ Software Co-design and Co-verification on a Novel Embedded Object-Oriented Processor", *Lecture Notes in Computer Science*, Vol 3824, Springer, December 2005, pp 371-380.
- TAN, Y Y, YAU, C H, LO, K M, MOK, P L and FONG, A S S, "A Novel JAVA Processor for Embedded Devices", *Lecture Notes in Computer Science*, Vol 3553/2005, Springer, August 2005, pp 112-121, (ISSN 0302-9743, ISBN 3-540-26969-X).
- NG Ka-ho** PO, L M, TING, C W and NG, K H, "New Enhanced Hexagon-Based Search Using Point-Oriented Inner Search for Fast Block Motion Estimation", *International Journal on Signal Processing*, 3(3), 2006, pp 193-197, <http://www.enformatika.org/ijsp/v3/v3-3-27.pdf>.
- SO Chi Fuk** LEUNG, S H and SO, C F, "Gradient-Based Variable Forgetting Factor RLS Algorithm in Time-Varying Environments", *IEEE Transactions on Signal Processing*, 53(8), August 2005, pp 3141-3150.

- TAN Sai Choo** TAN, S C, CHAN, Y C and LUI, N S M, "Process Optimization to Overcome Void Formation in Nonconductive Paste Interconnections for Fine-pitch Applications", *Journal of Electronic Materials*, 34(8), August 2005, pp 1143-1149.
- TING Chi Wang** PO, L M, TING, C W and NG, K H, "New Enhanced Hexagon-Based Search Using Point-Oriented Inner Search for Fast Block Motion Estimation", *International Journal on Signal Processing*, 3(3), 2006, pp 193-197, <http://www.enformatika.org/ijsip/v3/v3-3-27.pdf>.
- WONG Chun Kit** WONG, C K, WONG, H, KOK, C W and CHAN, M, "Silicon Oxynitride Prepared by Chemical Vapor Deposition as Optical Waveguide Materials", *Journal of Crystal Growth*, Vol 288, February 2006, pp 171-175.
- WU Hao** WU, H, LI, Ping and PEROTTI, A, "User-Specific Chip-Level Interleaver Design for IDMA Systems", *Electronics Letters*, 42(4), February 2006, pp 233-234.
- YAO Sheng** YAO, S and CHAN, C F, "Block-based Bandwidth Extension of Narrowband Speech Signal by using CDHMM", *GESTS International Transactions on Computer Science and Engineering*, 16(1), August 2005, pp 25-33.
- YAU Chi-hang** TAN, Y Y, YAU, C H, LO, K M, YU, R W S, MOK, P L and FONG, A S S, "Design and Implementation of a Java Processor", *IEE Proceedings - Computers and Digital Techniques*, 153(1), January 2006, pp 20-30.
- TAN, Y Y, LO, W Y, YAU, C H, LI, R C L and FONG, A S S, "A JAVA Processor with Hardware-Support Object-Oriented Instructions", *Microprocessors and Microsystems*, 19 January 2006, published on Web, (ref IJB/2004/45).
- YAU, C H, TAN, Y Y, MOK, P L, YU, R W S and FONG, A S S, "A Hardware/ Software Co-design and Co-verification on a Novel Embedded Object-Oriented Processor", *Lecture Notes in Computer Science*, Vol 3824, Springer, December 2005, pp 371-380.
- YAU, C H, TAN, Y Y, FONG, A S S and YU, R W S, "Hardware Concurrent Garbage Collection for Short-lived Objects in Mobile Java Devices", *Lecture Notes in Computer Science*, Vol 3824, Springer, December 2005, pp 47-56.
- TAN, Y Y, YAU, C H, LO, K M, MOK, P L and FONG, A S S, "A Novel JAVA Processor for Embedded Devices", *Lecture Notes in Computer Science*, Vol 3553/2005, Springer, August 2005, pp 112-121, (ISSN 0302-9743, ISBN 3-540-26969-X).
- YU Ryan Wing Shing** TAN, Y Y, YAU, C H, LO, K M, YU, R W S, MOK, P L and FONG, A S S, "Design and Implementation of a Java Processor", *IEE Proceedings - Computers and Digital Techniques*, 153(1), January 2006, pp 20-30.
- YAU, C H, TAN, Y Y, MOK, P L, YU, R W S and FONG, A S S, "A Hardware/ Software Co-design and Co-verification on a Novel Embedded Object-Oriented Processor", *Lecture Notes in Computer Science*, Vol 3824, Springer, December 2005, pp 371-380.

YAU, C H, TAN, Y Y, FONG, A S S and YU, R W S, "Hardware Concurrent Garbage Collection for Short-lived Objects in Mobile Java Devices", *Lecture Notes in Computer Science*, Vol 3824, Springer, December 2005, pp 47-56.

ZHAO Lei

SOO, K K, SIU, Y M, ZHAO, L, YANG, L, CHEN, R S and CHAN, W S, "Power Control Algorithm in CDMA Systems Using Symmetric Successive Overrelaxation Iteration", *European Transactions on Telecommunications (ETT)*, 16(6), 17 October 2005, pp 583-589.

Conference papers

AI Si

AI, S, LEUNG, S H, LEUNG, C S and SONG, R F, "A Novel Adaptive OFDM Receiver with Second Order Polynomial Nyquist Window Function", 2006 IEEE International Conference on Communications (ICC 2006), Istanbul, Turkey, June 2006, (Session SP01-5).

AI, S, LEUNG, S H and LEUNG, C S, "A Novel Synchronization Scheme for OFDM over Fading Channels", *2006 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2006)*, Toulouse, France, May 2006, pp IV.401-IV.404.

CHOW Kam Ming

CHAN, K H, CHOW, K M, FUNG, L C, LEUNG, S W and SIU, Y M, "Crosstalk Study in Splitter PCB Design of CAT-5 Cabling Applications", *Proceedings of 2005 IEEE International Symposium on Electromagnetic Compatibility (EMC 2005)*, Chicago, Illinois, USA, 8-12 August 2005, pp 861-865.

CHU Kam Keung

GENG, G X, LEUNG, S H, CHU, K K and WEI, G, "Novel Model Compensation For Features Based on SNR-dependent Non-uniform Spectral Compression", *Proceedings of the 2006 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2006)*, Toulouse, France, May 2006, pp IV-401-IV-404.

NING, G X, LEUNG, S H and CHU, K K, "A Parallel Model Combination Scheme with Improved Delta Parameter Compensation", *Proceedings of the 2006 Proceedings IEEE International Symposium on Circuits and Systems (ISCAS 2006)*, Greece, May 2006, pp 5535-5538.

CHU Yiu Man

CHU, Y M, CHIANG, K S and LIU, Q, "Widely Tunable Optical Bandpass Filter Using Polymer Long-period Waveguide Gratings", *Proceedings of the 14th International Conference on Polymer Optical Fiber (POF 2005)*, Hong Kong, PRC, September 2005, pp 345-348.

HO Ka Yau

HO, K Y and LEUNG, S H, "Generalized Semi-blind Channel Estimator for TCM-OFDM System", *Proceedings of the 2006 IEEE International Symposium on Circuits and Systems (ISCAS 2006)*, Greece, May 2006, pp 189-192.

LAU Ka Lam

LAU, K L, WONG, H, MAK, C L, LUK, K M and LEE, K F, "Dual-Band and CP Vertical Patch Antennas", *Proceedings of the European Conference on Wireless Technology (ECWT 2005)*, Paris, France, 3-4 October 2005, pp 91-94.

LAU, K L, WONG, H, MAK, C L, LUK, K M and LEE, K F, "A Dual-band Vertical Patch Antenna with Size Reduction", *2005 IEEE Antennas and Propagation Society International Symposium Digest*, Vol 1B, Washington, USA, 3-8 July 2005, pp 479-482.

LAU, K L, WONG, T P, LUK, K M and LEE, K F, "A Novel Design of Vertical Patch Antenna with Corrugated Ground Structure", *Proceedings of the 2005 Microwave and Millimetre-wave Symposium of China*, PRC, February 2006, pp 460-463.

WONG, T P, LAU, K L, LUK, K M and LEE, K F, "Wideband Vertical Patch Antenna", *Proceedings of the 2005 Microwave and Millimeter-wave Symposium of China*, PRC, February 2006, pp 464-467.

LAU Kwan Shek

LAU, K S and PAO, D C W, "Tree-based Versus Gossip-based Reliable Multicast in Wireless Ad Hoc Networks", *Proceedings of the 2006 IEEE Consumer Communications and Networking Conference (CCNC 2006)*, Las Vegas, Nevada, USA, January 2006, published in CD Rom.

LAU Pui-yi

LAU, P Y and YUNG, E K N, "Accordion Helical Antenna-with Tilted Directional Radiation for RFID", *Proceedings of the 2nd IASTED International Conference on Antennas, Radar, and Wave Propagation (ARP 2005)*, Banff, AB, Canada, 19-21 July 2005, pp 387-390.

LAU, P Y, WONG, H, LUK, K M and YUNG, E K N, "A Small Cap-shaped CP Patch Antenna", *Proceedings of the 2005 Microwave and Millimeter-wave Symposium of China*, Vol 3, Chinese Institute of Electronics, PRC, 26 February 2006 - 2 March 2006, pp 1316-1319.

LI Haizhou

LI, H and CHAN, K L, "Shape-based Image Retrieval for Person Identification", *Proceedings of 2005 Asia-Pacific Workshop on Visual Information Processing (VIP 2005)*, Hong Kong, PRC, December 2005, pp 36-41.

LI River Tin-ho

LI, R T H, CHUNG, H S H and CHAN, T K M, "An Active Modulation Technique for Single-Phase Grid-Connected CSI", *Proceedings of the 37th IEEE Power Electronics Specialists Conference (PESC 2006)*, Jeju, South Korea, 18-22 June 2006, pp 1160-1166.

LI Yiu-keung

LI, Y K and PAO, D C W, "Comparative Studies of Address Lookup Algorithms for IPv6", *Proceedings of the 8th IEEE International Conference on Advanced Communication Technology (ICACT 2006)*, Phoenix Park, South Korea, February 2006, published in CD Rom.

PAO, D C W, LI, Y K and ZHOU, P, "An Encoding Scheme for TCAM-based Packet Classification", *Proceedings of the 8th IEEE International Conference on Advanced Communication Technology (ICACT 2006)*, Phoenix Park, South Korea, February 2006, published in CD Rom.

LIU Ying-kin

LIU, Y K, CHENG, L M and CHENG, L L, "Web Server Load-balancing using Fuzzy Neural Network", *Proceedings of the IASTED International Conference Networks and Communication Systems (NCS 2006)*, Chiang Mai, Thailand, 29-31 March 2006, pp 402-406.

LIU, Y K, CHENG, L M and CHENG, L L, "Aviation Management System with Neural Network Load-Balancing Algorithm", *Proceedings of the 5th International Symposium on Electronics in the Air Transport Industry (SEATI 2006)*, IEE, Hong Kong, PRC, 8-9 March 2006, pp 211-217, (ISBN 962-85874-5-5).

LIU, Y K, CHENG, L M and CHENG, L L, "Fault-Tolerant Framework for Load Balancing System", *Proceedings of the 5th WSEAS International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS '06)*, Madrid, Spain, 15-17 February 2006, pp 151-155.

LIU, Y K, CHENG, L M and CHENG, L L, "Enhanced Dynamic Web Page Allocation using Fuzzy Neural Network", *Proceedings of the 5th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases (AIKED '06)*, Madrid, Spain, 15-17 February 2006, pp 183-188.

MA Bessie Ying

MA, B Y and CHAN, Y C, "Study on the Fabrication Process and Reliability Performance of Contactless Smart Card Using Nonconductive Film", 5th International Conference on Polymers and Adhesives in Microelectronics and Photonics (Polytronic 2005), Wroclaw, Poland, 23-26 October 2005.

NG Ka-ho

PO, L M, TING, C W and NG, K H, "Enhanced Diamond Search Using Four-Corner-Based Inner Search For Fast Block Motion Estimation", *Proceedings of the 2006 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2006)*, Vol 2, Toulouse, France, May 2006, pp 901-904.

SHI Xiaolin

SHI, X, LEUNG, S H and LEUNG, C S, "Mean Square Error Analysis of RLS Algorithm for WSSUS Fading Channels", *Proceedings of the 2006 IEEE International Symposium on Circuits and Systems (ISCAS 2006)*, Greece, May 2006, pp 2329-2332.

SIU Lam

SIU, L and LUK, K M, "Broadband Antenna with EBG Cells", *Proceedings of the 2005 Microwave & Millimeter-wave Symposium of China*, PRC, February 2006, pp 468-471.

TANG Kwok-wah

TANG, K W and TANG, K S, "Metal Cutting with Hybrid Genetic Algorithm", 3rd International Conference Industrial Informatics (INDIN 2005), Perth, Western, Australia, 10-12 August 2005, (PD-000202).

TANG, K W and TANG, K S, "A Chaos-based Secure Voice Communication System", *Proceedings of the 2005 IEEE International Conference on Industrial Technology (IEEE ICIT 2005)*, City University of Hong Kong, Hong Kong, PRC, 14-17 December 2005, pp 571-576.

TING Chi Wang

PO, L M, TING, C W and NG, K H, "Enhanced Diamond Search Using Four-Corner-Based Inner Search For Fast Block Motion Estimation", *Proceedings of the 2006 International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2006)*, Vol 2, Toulouse, France, May 2006, pp 901-904.

- WEN Jacky Fung** WEN, J F, ZHOU, C and CHUNG, P S, "Novel Applications of Diffractive Optical Elements (DOE) in Optical Fiber Communications", *Technical Digest of the 9th International Symposium on Contemporary Photonics Technology (CPT 2006)*, Tokyo, Japan, January 2006, pp 87-88.
- WONG Chun Kit** WONG, H, FILIP, V, WONG, C K and CHUNG, P S, "Silicon Integrated Photonics for Microelectronics Evolution", 2006 25th International Conference on Microelectronics (MIEL 2006), Serbia and Montenegro, May 2006.
- YAO Sheng** YAO, S and CHAN, C F, "Block-Based Speech Bandwidth Extension System with Separated Envelope Energy Ratio Estimation", 13th European Conference on Signal Processing (EUSIPCO 2005), Antalya, Turkey, September 2005.
- YAO, S and CHAN, C F, "Speech Bandwidth Enhancement Using State Space Speech Dynamics", IEEE International Conference on Acoustics Speech and Signal Processing (ICASSP 2006), Toulouse, France, May 2006, pp I-489-492.
- YAU Chi-hang** YAU, C H, TAN, Y Y and FONG, A S S, "A Novel Just-In-Time Compiler on an Embedded Object-Oriented Processor", *Proceedings of the 5th International Conference on Computer and Information Technology (CIT 2005)*, Shanghai, PRC, September 2005, pp 771-775.
- YIN Jiajia** YIN, J and TANG, K S, "Resource Placement in Content Delivery Networks Using Hybrid Genetic Algorithm", 3rd International Conference on Industrial Informatics (INDIN 2005), Perth, Western, Australia, 10-12 August 2005, (PD-000314).
- YIN, J and TANG, K S, "Design of Balanced Code Sequences for DS/CDMA Using Genetic Algorithm", *Proceedings of the 2005 International Symposium on Nonlinear Theory and Its Applications (NOLTA 2005)*, Bruges, Belgium, October 2005, pp 190-193.
- ZHANG Zhong** ZHANG, Z and CHEN, G R, "Chaotic Motion Generation with Applications to Liquid Mixing", *Proceedings of the 17th European Conference on Circuits Theory and Design (ECCTD 2005)*, Cork, Ireland, 29 August 2005 - 2 September 2005, pp 225-228.
- ZHOU Peng** PAO, D C W, LI, Y K and ZHOU, P, "An Encoding Scheme for TCAM-based Packet Classification", *Proceedings of the 8th IEEE International Conference on Advanced Communication Technology (ICACT 2006)*, Phoenix Park, South Korea, February 2006, published in CD Rom.

Patents, agreements, assignments and companies

- CHAN Choi-kuen** CHENG, L M, CHAN, C K and CHAN, C K, Compact Crypto-engine for Random Number and Stream Cipher Generation, Patent No.: 7,003,109 B2, The United States Patent and Trademark Office, USA, February 2006.

All other outputs

- CHAN Bui Ki** CHAN, B K, Medium Access Control in Multi-hop Ad hoc Networks, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 23 December 2005.
- CHAU Tak-chi** CHAU, T C, Study on Non-ACF Flip Chip Bonding for Fine Pitch Chip-On-Film (COF) Package, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 6 June 2006.
- CHIU Michael Yat Ming** CHIU, M Y M, Design and Performance Modeling of Distributed Video on Demand Systems, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 5 September 2005.
- CHOW Kam Ming** CHOW, K M, Fuzzy Signal Detection in Multiple-access Ultra-wide Band Communication Systems, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 1 August 2005.
- CHU Yiu Man** CHU, Y M, Optical Filters Based on Long-period Waveguide Gratings, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 21 March 2006.
- HO Sun Wah** HO, S W, A Cryptosystem Based on Chaotic and Elliptic Curve Cryptography, MPhil Thesis, Department of Computer Engineering & Information Technology, City University of Hong Kong, Hong Kong, PRC, 18 July 2005.
- LAM Hang Yee** LAM, H Y, Analysis of Circularly and Linearly Polarized U-slot-excited Hemispherical Dielectric Resonator Antennas with a Backing Cavity, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 10 August 2005.
- LAU Kwan Shek** LAU, K S, Reliable Multicast Over Wireless Ad-hoc Network, MPhil Thesis, Department of Computer Engineering & Information Technology, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.
- LEUNG Kai Chi** LEUNG, K C, Study and Implementation of Probabilistic Block Cipher Algorithms, MPhil Thesis, Department of Computer Engineering & Information Technology, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.
- LI Suk-ling** LI, S L, Study of Steganographic Techniques for Digital Images, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 25 October 2005.
- LI Yiu-keung** LI, Y K, Algorithms Design for IPv6 Address Lookup and Packet Classification, MPhil Thesis, Department of Computer Engineering & Information Technology, City University of Hong Kong, Hong Kong, PRC, 31 August 2005.

- LIU Yang** LIU, Y, Studies of Long-Period Grating Devices Formed in Rectangular-Core Waveguides, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 16 August 2005.
- LIYAKATHALI Lafir Ali** LIYAKATHALI, L A, The Effect of Thermal Cycling on the Contact Resistance of Anisotropic Conductive Joints, Emerald Literati Network, Highly Commended Award, United Kingdom, 2005.
- MAN Kwan-pok** MAN, K P, Security Enhancement on the Cryptosystem based on Chaotic and Elliptic Curve Cryptography, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 3 May 2006.
- TAN Sai Choo** TAN, S C, Study on Non-conducting Adhesives onto Application of Fine Pitch Flip Chip Interconnection, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 31 October 2005.
- TING Chi Wang** TING, C W, Applications of Fast Low-distortion Motion Estimation Algorithms in Video Coding, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 23 August 2005.
- ZHAO Lei** ZHAO, L, Multiuser Detection and Power Control in CDMA Systems, MPhil Thesis, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, PRC, 7 November 2005.

DEPARTMENT OF MANUFACTURING ENGINEERING & ENGINEERING MANAGEMENT

Journal publications

- LAM Chi Ming** SUN, D, WU, H Y, LAM, C and ZHU, R, "Development of a Small Air Vehicle Based on Aerodynamic Model Analysis in the Tunnel Tests", *Mechatronics*, Vol 16, February 2006, pp 41-49.
- LAU Kin-ho** LAU, K H and LI, L K Y, "Correlation between Adhesion and Wear Behaviour of Commercial Carbon Based Coating", *Tribology International*, 39(2), February 2006, pp 115-123.

Conference papers

- CHEUK Nga Lun** CHEUK, N, LEUNG, J T C and TSE, P W T, "Effective Architecture for Web-based Maintenance System and Its Security", *Proceedings of the IDET/CIE 2005, ASME 2005 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Vol 1, Long Beach, California, USA, 24-28 September 2005, pp DETC2005-84645, (6 pages).
- CHONG Johnson Hiu-fung** CHONG, J H F, HO, J K L, FONG, W F and YANG, Z J, "Controlled Extraction of Chinese Medical Herbs in Boiling Water", *Proceedings of the IEEE International Conference on Industrial Technology (IEEE ICIT 2005)*, Hong Kong, PRC, 14-17 December 2005, pp 1046-1050.

CHONG, J H F, HO, J K L, FONG, W F and YANG, Z J, "Extraction Processes in Making a Herbal Medicine Concoction", *Proceedings of the International Multi-conference of Engineers and Computer Scientists 2006 (IMECS 2006)*, Hong Kong, PRC, 20-22 June 2006, pp 671-676.

LEUNG Jacko Tsz-chung

CHEUK, N, LEUNG, J T C and TSE, P W T, "Effective Architecture for Web-based Maintenance System and Its Security", *Proceedings of the IDET/CIE 2005, ASME 2005 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Vol 1, Long Beach, California, USA, 24-28 September 2005, pp DETC2005-84645, (6 pages).

LEUNG, J T C and TSE, P W T, "Smart Asset Maintenance System for Machine Fault Diagnosis - Its Effectiveness, Methodology, and Applications", *Proceedings of the IDET/CIE 2005, ASME 2005 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference*, Vol 1, Long Beach, California, USA, 24-28 September 2005, pp DETC2005-84300, (8 pages).

SIU Helen Hon Yee

SIU, H H Y and HO, J K L, "The Design of an Interactive Webpage Embedded with Psychological Feelings", 11th International Conference on Human-Computer Interaction, Las Vegas, USA, 22-27 July 2005, (CD-Rom).

SIU, H H Y and HO, J K L, "Visual Design for a Webpage", 4th International Cyberspace Conference on Ergonomics (CybErg 2005), South Africa, 15 September 2005 - 15 October 2005, (CD Rom).

YEUNG Chui Wa

IP, R W L, YEUNG, C W, CHAN, F T S and LAU, H C W, "Select the Best Surface Fitting Approach for the Reconstruction of High Quality 3-D Objects from Range-image Data", *Proceedings of the International MultiConference of Engineers and Computer Scientists 2006 (IMECS 2006)*, Hong Kong, PRC, 20-22 June 2006, pp 677-682.

YEUNG, C W and HO, J K L, "An Investigation of the Sentiments of Having a Dog for the Design of a Toy Dog", 4th International Cyberspace Conference on Ergonomics (CybErg 2005), South Africa, 15 September 2005 - 15 October 2005, (CD Rom).

YIU Ka-lok

YIU, K L, PUN, W L, CHEUNG, Y W, TAM, H Y and LUK, B L, "Building a Low-cost Humanoid Robot", *Proceedings of the International Conference on Mechanical Engineering and Mechanics (ICMEM 2005)*, Nanjing, PRC, 26-28 October 2005, pp 374-379.

All other outputs

CHAN Robert Ting Hong

CHAN, R, Design an Integrated Knowledge Representation (IKR) Model, MPhil Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 13 May 2006.

CHIU Hiu-yin

CHIU, H Y, Outstanding Project Award, Hong Kong Ergonomics Society, Hong Kong, PRC, May 2006.

- CHONG Yin-ling** CHONG, Y L, Occupational Health Problems for Teachers from Primary and Secondary Schools in Hong Kong, MPhil Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 14 June 2006.
- LAM Chi Ming** LAM, C, Development of a Hybrid Control System Using NURBS Interpolator and Cross-coupling Approach to Eliminate Contour Error: Theory and Application, MPhil Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 2 February 2006.
- LAM Joy Lai Ki** LAM, J L K, Adoption of Customer Relationship Management (CRM) in Local Manufacturing Industry, MPhil Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 21 July 2005.
- SO Yin Ching** SO, Y C, A Series of Surface Fitting Strategies for Procedure Optimization in Reconstructing High Quality Surfaces, MPhil Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 1 September 2005.
- YEUNG Chui Wa** YEUNG, C W, An Investigation of the Sentiments of Having a Dog - Inspirations for the Design of a Toy Dog, MPhil Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 13 July 2005.
- YU Yanny Hoi Kuen** YU, Y H K, Development of Accident Costs Estimation Model for Hong Kong Catering Industry, MPhil Thesis, Department of Manufacturing Engineering & Engineering Management, City University of Hong Kong, Hong Kong, PRC, 19 July 2005.
- YU, Y H K, Best Project Award, Occupational Safety and Health Council, Hong Kong, PRC, January 2006.

DEPARTMENT OF MATHEMATICS

All other outputs

- HUA Jiale** HUA, J, An Improved Convergence Rate of Glimm Scheme for General Systems of Hyperbolic Conservation Laws, MPhil Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 27 June 2006.
- HUANG Junbo** HUANG, J, A Wealth Tracking Approach to Portfolio Management and Comparisons of Investment Strategies, MPhil Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 10 August 2005.
- YEUNG Loi-leung** YEUNG, L L, Design and Analysis for Wavelet Neural Network Identification Model, MPhil Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 11 July 2005.

Journal publications

- CHAN Ka Man** ZHANG, W J, MENG, X M, CHAN, C Y, CHAN, K M, WU, Y, BELLO, I and LEE, S T, “Interfacial Study of Cubic Boron Nitride Films Deposited on Diamond”, *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, August 2005, pp 16005-16010.
- CHAN kwai-fong** CHAN, K F, TSE, A K W, FONG, W F and YU, K N, “Feasibility Studies of Colorless LR 115 SSNTD for Alpha-particle Radiobiological Experiments”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, Vol 247, June 2006, pp 307-312.
- CHEN Zhen-hua** GUO, C S, FAN, W J, CHEN, Z H and ZHANG, R Q, “First-principles Study of Single-walled Armchair Cx(BN)y Nanotubes”, *Solid State Communications*, 137(10), March 2006, pp 549-552.
- CHEUNG Tik-lam** FU, R K Y, CHEUNG, T L, MEI, Y F, SHEK, C H, SIU, K G G, CHU, P K H, YANG, W M, LENG, Y X, HUANG, Y X, TIAN, X B and YANG, S Q, “Surface Modification of Polymeric Materials by Plasma Immersion Ion Implantation”, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237 (1-2), July 2005, pp 417-421.
- LIU, Y M, LI, L H, CAO, X, CHEN, Q L, XU, M, HU, Y W, CHEUNG, T L, SHEK, C H and CHU, P K H, “Effects of Pretreatment by Ion Implantation and Interlayer on Adhesion between Aluminum Substrate and TiN Film”, *Thin Solid Films*, 493(1-2), September 2005, pp 152-159.
- SUN, Y F, WEI, B C, WANG, Y R, LI, W H, CHEUNG, T L and SHEK, C H, “Plasticity-improved Zr–Cu–Al Bulk Metallic Glass Matrix Composites Containing Martensite Phase”, *Applied Physics Letters*, Vol 87, July 2005, pp 051905-1.
- CHONG Yat-ming** BELLO, I, CHONG, Y M, LEUNG, K M, CHAN, C Y, MA, K L, ZHANG, W J, LEE, S T and LAYYOUS, A, “Cubic Boron Nitride Films for Industrial Applications”, *Diamond and Related Materials*, Vol 14, December 2005, pp 1784-1790.
- CHONG, Y M, MA, K L, LEUNG, K M, CHAN, C Y, YE, Q, BELLO, I, ZHANG, W J and LEE, S T, “Synthesis and Mechanical Properties of Cubic Boron Nitride/Nanodiamond Composite Films”, *Chemical Vapor Deposition*, 12(1), January 2006, pp 33-38.
- LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, “Studying the Growth of Cubic Boron Nitride on Amorphous Tetrahedral Carbon Interlayers”, *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, September 2005, pp 16272-16277.

LEUNG, K M, LI, H Q, ZOU, Y S, MA, K L, CHONG, Y M, YE, Q, ZHANG, W J, LEE, S T and BELLO, I, "Structural Analysis of Cubic Boron Nitride Films by Ultraviolet Raman Spectroscopy", *Applied Physics Letters*, Vol 88, June 2006, pp 241922-1 – 241922-3.

CHUNG Chi-yan

POON, W Y, HO, J P Y, LIU, X Y, CHUNG, C Y, CHU, P K H, YEUNG, K W K, LU, W W and CHEUNG, K M C, "Improvements of Anti-corrosion and Mechanical Properties of Niti Orthopedic Materials by Acetylene, Nitrogen, and Oxygen Plasma Immersion Ion Implantation", *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 237(1-2), July 2005, pp 411-416.

GUAN Bin

GUAN, B and CHAN, J C L, "Nonstationarity of the Intraseasonal Oscillations Associated with the Western North Pacific Summer Monsoon", *Journal of Climate*, Vol 19, February 2006, pp 622-629.

GUO Chunsheng

GUO, C S, FAN, W J and ZHANG, R Q, "Influence of Sublayer Atoms on Si(100) Surface Reconstructions", *Solid State Communications*, Vol 137, March 2006, pp 553-556.

GUO, C S, FAN, W J and ZHANG, R Q, "Spin Polarization of the Injected Carriers in C-doped BN Nanotubes", *Solid State Communications*, Vol 137, February 2006, pp 246-248.

GUO, C S, FAN, W J, CHEN, Z H and ZHANG, R Q, "First-principles Study of Single-walled Armchair C_x(BN)_y Nanotubes", *Solid State Communications*, 137(10), March 2006, pp 549-552.

KWOK Ho Yin

KWOK, H Y and CHAN, J C L, "The Influence of Uniform Flow on Tropical Cyclone Intensity Change", *Journal of the Atmospheric Sciences*, 62(9), September 2005, pp 3193-3212.

LAU Eric Kai-chun

LAU, E K C, XIE, W F, SUN, H Y, LEE, C S and LEE, S T, "Contrast Improvement of Organic Light-emitting Devices With Sm:Ag Cathode", *Applied Physics Letters*, Vol 88, February 2006, pp 083507-1 - 083507-3.

SUN, H Y, LAU, K M, LAU, E K C, CHAN, M Y, FUNG, M K, LEE, C S and LEE, S T, "Fluorocarbon Film as Cathode Protective Coating in Organic Light-emitting Devices", *Applied Physics Letters*, Vol 88, June 2006, pp 223503-1 - 223503-3.

LAU Kit-ming

TANG, J X, LAU, K M, LEE, C S and LEE, S T, "Substrate Effects on the Electronic Properties of an Organic/Organic Heterojunction", *Applied Physics Letters*, Vol 88, June 2006, pp 232103-1 – 232103-3.

TONG, S W, LAU, K M, SUN, H Y, FUNG, M K, LEE, C S, LIFSHITZ, Y and LEE, S T, "Ultraviolet Photoelectron Spectroscopy Investigation of Interface Formation in an Indium-tin Oxide/Fluorocarbon/Organic Semiconductor Contact", *Applied Surface Science*, Vol 252, March 2006, pp 3806-3811.

SUN, H Y, LAU, K M, LAU, E K C, CHAN, M Y, FUNG, M K, LEE, C S and LEE, S T, "Fluorocarbon Film as Cathode Protective Coating in Organic Light-emitting Devices", *Applied Physics Letters*, Vol 88, June 2006, pp 223503-1 - 223503-3.

LEUNG Kar-man

BELLO, I, CHONG, Y M, LEUNG, K M, CHAN, C Y, MA, K L, ZHANG, W J, LEE, S T and LAYYOUS, A, "Cubic Boron Nitride Films for Industrial Applications", *Diamond and Related Materials*, Vol 14, December 2005, pp 1784-1790.

CHONG, Y M, MA, K L, LEUNG, K M, CHAN, C Y, YE, Q, BELLO, I, ZHANG, W J and LEE, S T, "Synthesis and Mechanical Properties of Cubic Boron Nitride/Nanodiamond Composite Films", *Chemical Vapor Deposition*, 12(1), January 2006, pp 33-38.

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Studying the Growth of Cubic Boron Nitride on Amorphous Tetrahedral Carbon Interlayers", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, September 2005, pp 16272-16277.

LEUNG, K M, LI, H Q, ZOU, Y S, MA, K L, CHONG, Y M, YE, Q, ZHANG, W J, LEE, S T and BELLO, I, "Structural Analysis of Cubic Boron Nitride Films by Ultraviolet Raman Spectroscopy", *Applied Physics Letters*, Vol 88, June 2006, pp 241922-1 – 241922-3.

LI Kwun Kau

CHAN, J C L and LI, K K, "Ensemble Forecasting of Tropical Cyclone Motion Using a Barotropic Model. Part III: Combining Perturbations of the Environment and the Vortex", *Meteorology and Atmospheric Physics*, Vol 90, September 2005, pp 109-126.

MA Kwok-leung

BELLO, I, CHONG, Y M, LEUNG, K M, CHAN, C Y, MA, K L, ZHANG, W J, LEE, S T and LAYYOUS, A, "Cubic Boron Nitride Films for Industrial Applications", *Diamond and Related Materials*, Vol 14, December 2005, pp 1784-1790.

CHONG, Y M, MA, K L, LEUNG, K M, CHAN, C Y, YE, Q, BELLO, I, ZHANG, W J and LEE, S T, "Synthesis and Mechanical Properties of Cubic Boron Nitride/Nanodiamond Composite Films", *Chemical Vapor Deposition*, 12(1), January 2006, pp 33-38.

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Studying the Growth of Cubic Boron Nitride on Amorphous Tetrahedral Carbon Interlayers", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, September 2005, pp 16272-16277.

LEUNG, K M, LI, H Q, ZOU, Y S, MA, K L, CHONG, Y M, YE, Q, ZHANG, W J, LEE, S T and BELLO, I, "Structural Analysis of Cubic Boron Nitride Films by Ultraviolet Raman Spectroscopy", *Applied Physics Letters*, Vol 88, June 2006, pp 241922-1 – 241922-3.

NG Man Fong

NIKEZIC, D, NG, F M F, YIP, C W Y and YU, K N, "Application of the Ray Tracing Method in Studying α Tracks in SSMTDs", *Radiation Measurements*, Vol 40, November 2005, pp 375-379.

YU, K N, NG, F M F and NIKEZIC, D, "Measuring Depths of Sub-micron Tracks in a CR-39 Detector from Replicas Using Atomic Force Microscopy", *Radiation Measurements*, Vol 40, November 2005, pp 380-383.

YU, K N, NIKEZIC, D, NG, F M F and LEUNG, J K C, "Long-term Measurements of Radon Progeny Concentrations with Solid-state Nuclear Track Detectors", *Radiation Measurements*, Vol 40, November 2005, pp 560-568.

SUN Hoi-yi

LAU, E K C, XIE, W F, SUN, H Y, LEE, C S and LEE, S T, "Contrast Improvement of Organic Light-emitting Devices With Sm:Ag Cathode", *Applied Physics Letters*, Vol 88, February 2006, pp 083507-1 - 083507-3.

TONG, S W, LAU, K M, SUN, H Y, FUNG, M K, LEE, C S, LIFSHITZ, Y and LEE, S T, "Ultraviolet Photoelectron Spectroscopy Investigation of Interface Formation in an Indium-tin Oxide/Fluorocarbon/Organic Semiconductor Contact", *Applied Surface Science*, Vol 252, March 2006, pp 3806-3811.

SUN, H Y, LAU, K M, LAU, E K C, CHAN, M Y, FUNG, M K, LEE, C S and LEE, S T, "Fluorocarbon Film as Cathode Protective Coating in Organic Light-emitting Devices", *Applied Physics Letters*, Vol 88, June 2006, pp 223503-1 - 223503-3.

WONG, F L, SUN, H Y, TONG, S W, CHAN, M Y, LEE, C S and LEE, S T, "Performance Enhancement of Organic Light-emitting Diode by Heat Treatment", *Journal of Crystal Growth*, Vol 288, February 2006, pp 110-114.

WONG Oiyan

CHEW, S L, WANG, P F, WONG, O Y, HONG, Z R, HE, M X, ZHANG, R Q, KWONG, H L, TANG, J X, SUN, S L, LEE, C S and LEE, S T, "Photoluminescence and Electroluminescence of 3-Methyl-8-dimethylaminophenazine", *Synthetic Metals*, Vol 156, February 2006, pp 185-189.

WU Yu

LIFSHITZ, Y, LEE, C H, WU, Y, ZHANG, W J, BELLO, I and LEE, S T, "Role of Nucleation in Nanodiamond Film Growth", *Applied Physics Letters*, Vol 88, June 2006, pp 243114-1 - 243114-3.

ZHANG, W J, MENG, X M, CHAN, C Y, CHAN, K M, WU, Y, BELLO, I and LEE, S T, "Interfacial Study of Cubic Boron Nitride Films Deposited on Diamond", *Journal of Physical Chemistry B: Condensed Matter, Materials, Surfaces, Interfaces, & Biophysical*, Vol 109, August 2005, pp 16005-16010.

YANG Xun

CHENG, A Y S, CHAN, M H and YANG, X, "Study of Aerosol Optical Thickness in Hong Kong, Validation, Results, and Dependence on Meteorological Parameters", *Atmospheric Environment*, Vol 40, June 2006, pp 4469-4477.

YE Qing

CHONG, Y M, MA, K L, LEUNG, K M, CHAN, C Y, YE, Q, BELLO, I, ZHANG, W J and LEE, S T, "Synthesis and Mechanical Properties of Cubic Boron Nitride/Nanodiamond Composite Films", *Chemical Vapor Deposition*, 12(1), January 2006, pp 33-38.

LEUNG, K M, LI, H Q, ZOU, Y S, MA, K L, CHONG, Y M, YE, Q, ZHANG, W J, LEE, S T and BELLO, I, "Structural Analysis of Cubic Boron Nitride Films by Ultraviolet Raman Spectroscopy", *Applied Physics Letters*, Vol 88, June 2006, pp 241922-1 – 241922-3.

Conference papers

CHAN kwai-fong

CHAN, K F, HO, J P Y, LI, W Y, LAU, B M F, TSE, K W N, FONG, W F, BILEK, M M M, MCKENZIE, D R, CHU, P K H and YU, K N, "Investigation of Cytocompatibility of Surface-treated Cellulose Nitrate Films by Using Plasma Immersion Ion Implantation", 8th International Workshop on Plasma-based Ion Implantation and Deposition (PBII&D), Chengdu, PRC, 18-22 September 2005.

CHAN, K F, SIU, S Y M, MCCLELLA, K E, TSE, K W N, LAU, B M F, NIKEZIC, D, RICHARDSON, B J, LAM, P K S, FONG, W F and YU, K N, "Alpha-particle Radiobiological Experiments Using Thin CR-39 Detectors", 14th Symposium on Microdosimetry (MICROS 2005), Venezia, Italy, 13-18 November 2005.

CHEUNG Tik-lam

CHEUNG, T L and SHEK, C H, "Thermal and Mechanical Properties of Cu-Zr-Al Bulk Metallic Glasses", 12th International Symposium on Metastable and Nano Materials (ISMANAM), Paris, France, 3-7 July 2005.

CHEUNG, T L, SHEK, C H and CHU, P K H, "Surface Modification of $(\text{Cu}_{50}\text{Zr}_{50})_{92}\text{Al}_8$ Bulk Metallic Glass by Plasma Ion Implantation", *Proceedings of the 8th International Workshop on Plasma-based Ion Implantation and Deposition*, Chengdu, PRC, 18-22 September 2005, p 169, (Paper P5-8).

CHONG Yat-ming

ZHANG, W J, MA, K L, CHONG, Y M, LEUNG, K M, YE, Q, BELLO, I and LEE, S T, "Heteroepitaxial Growth of Cubic Boron Nitride Films on Diamond by Fluorine-assisted CVD", 11th International Ceramics Congress, Scicily, Italy, 4-9 June 2006.

MA, K L, ZHANG, W J, CHONG, Y M, LEUNG, K M, BELLO, I and LEE, S T, "Electrical Properties of Nitrogen Incorporated in Nanodiamond Films", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

CHONG, Y M, BELLO, I, MA, K L, LEUNG, K M, ZHANG, W J and LEE, S T, "Investigation on the Temperature Effects on the Quality of Cubic Boron Nitride Films Grown on Diamond Surfaces", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Deposition of Adherent cBN Films on Nano-structured Carbon Interlayer at Elevated Temperature by Magnetron Sputtering", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

LEUNG Kar-man

ZHANG, W J, MA, K L, CHONG, Y M, LEUNG, K M, YE, Q, BELLO, I and LEE, S T, "Heteroepitaxial Growth of Cubic Boron Nitride Films on Diamond by Fluorine-assisted CVD", 11th International Ceramics Congress, Scicily, Italy, 4-9 June 2006.

MA, K L, ZHANG, W J, CHONG, Y M, LEUNG, K M, BELLO, I and LEE, S T, "Electrical Properties of Nitrogen Incorporated in Nanodiamond Films", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

CHONG, Y M, BELLO, I, MA, K L, LEUNG, K M, ZHANG, W J and LEE, S T, "Investigation on the Temperature Effects on the Quality of Cubic Boron Nitride Films Grown on Diamond Surfaces", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Deposition of Adherent cBN Films on Nano-structured Carbon Interlayer at Elevated Temperature by Magnetron Sputtering", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

LI Wan-yin

CHAN, K F, HO, J P Y, LI, W Y, LAU, B M F, TSE, K W N, FONG, W F, BILEK, M M M, MCKENZIE, D R, CHU, P K H and YU, K N, "Investigation of Cytocompatibility of Surface-treated Cellulose Nitrate Films by Using Plasma Immersion Ion Implantation", 8th International Workshop on Plasma-based Ion Implantation and Deposition (PBII&D), Chengdu, PRC, 18-22 September 2005.

MA Kwok-leung

ZHANG, W J, MA, K L, CHONG, Y M, LEUNG, K M, YE, Q, BELLO, I and LEE, S T, "Heteroepitaxial Growth of Cubic Boron Nitride Films on Diamond by Fluorine-assisted CVD", 11th International Ceramics Congress, Scicily, Italy, 4-9 June 2006.

ZHANG, W J, MA, K L, MENG, X M, CHAN, C Y, BELLO, I and LEE, S T, "Interfacial Study of Cubic Boron Nitride Films Deposited on Silicon and Diamond Substrates", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

MA, K L, ZHANG, W J, CHONG, Y M, LEUNG, K M, BELLO, I and LEE, S T, "Electrical Properties of Nitrogen Incorporated in Nanodiamond Films", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

CHONG, Y M, BELLO, I, MA, K L, LEUNG, K M, ZHANG, W J and LEE, S T, "Investigation on the Temperature Effects on the Quality of Cubic Boron Nitride Films Grown on Diamond Surfaces", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

LEUNG, K M, CHAN, C Y, CHONG, Y M, YAO, Y, MA, K L, BELLO, I, ZHANG, W J and LEE, S T, "Deposition of Adherent cBN Films on Nano-structured Carbon Interlayer at Elevated Temperature by Magnetron Sputtering", 16th European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes and Nitrides (Diamond 2005), Toulouse, France, 11-16 September 2005.

SHUM Chi-tai

SHUM, C T and CHAN, J C L, "Tropical Cyclone Landfall under the Influence of Uniform Flow", *Proceedings of the Workshop on Meteorology and Climate over South China*, Hong Kong, PRC, 5-8 December 2005, pp 192-197.

SHUM, C T and CHAN, J C L, "Tropical Cyclone Landfall under the Influence of Uniform Flow", 27th Conference on Hurricanes and Tropical Meteorological, American Meteorological Society, Monterey, CA, USA, 24-28 April 2006.

YE Qing

ZHANG, W J, MA, K L, CHONG, Y M, LEUNG, K M, YE, Q, BELLO, I and LEE, S T, "Heteroepitaxial Growth of Cubic Boron Nitride Films on Diamond by Fluorine-assisted CVD", 11th International Ceramics Congress, Scicily, Italy, 4-9 June 2006.

All other outputs

CHAN Raymond Chiu Shing

CHAN, R C S, Study of Atmospheric Boundary Layer over Hong Kong using Mobile Micro-pulse Lidar, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 23 November 2005.

CHEUNG Man-kuen

CHEUNG, M K, Investigating the Tribological Performance of Different Polymer and Polymer Nanocomposites using Nanoscratch and Wear Techniques, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 17 August 2005.

KWOK Ho Yin

KWOK, H Y, The Role of Asymmetric Structure in Tropical Cyclone Intensity Change, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 11 July 2005.

LAM Chun Wing

LAM, C W, Mechanical Properties of Amorphous Tetrahedral Carbon, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 15 July 2005.

LAU Eric Kai-chun

LAU, E K C, Application of Rare-earth Metals in Organic Electroluminescent Device, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 16 March 2006.

NG Ki Cheong

NG, K C, Feasibility Study of NiTi Shape Memory Alloy Thin Film Far Infrared Imaging Sensor Arrays, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 11 July 2005.

- TAM Mei-kei** TAM, M K, Corrosion Behavior of Copper-based Metallic Glasses, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 9 August 2005.
- WANG Danbin** WANG, D, Template-assisted Synthesis of Nanomaterials, MPhil Thesis, Department of Physics and Materials Science, City University of Hong Kong, Hong Kong, PRC, 28 March 2006.
- YE Qing** YE, Q, First Prize, HKIE Materials Division, Award of Best Paper on Materials 2005, Hong Kong, PRC, 25 April 2006.

Conference papers

TONG Kam Pang

TONG, K P and WONG, K, "Schematic Interface of Sound Creation for Computer Animators", Computer Graphics International 2006 (CGI'06), Hangzhou, PRC, 26-28 June 2006, (Poster Presentation).

YE Zhu

YE, Z and LIU, Z Q, "Genetic CONDENSATION for Motion Tracking", *Proceedings of the 4th IEEE International Conference on Machine Learning and Cybernetics (ICMLC)*, Guangzhou, PRC, 18-21 August 2005, pp 5542-5547.

Journal publications

SHI Shifeng

SHI, S, “On Comparative Constitutional Interpretation 《論憲法比較解釋》”, *Science of Law 法律科學*, 24(2), March 2006, pp 25-34.

Conference papers

SHEN Han

SHEN, H, “Do’s” and “Don’ts” in Cross-border Transactions -National Report of the People’s Republic of China”, International Association of Young Lawyers (AIJA) Congress 2005, Mexico, August 2005.

All other outputs

SHEN Han

SHEN, H, A Legal Study of Mandatory Disclosure Requirements of Listed Companies - The Road for China, MPhil Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 13 February 2006.

School of Graduate Studies

5/F Cheng Yick Chi Building
City University of Hong Kong
Tat Chee Avenue, Kowloon
Hong Kong

Tel: 2788-9076

Fax: 2788-9940

E-mail: sg@cityu.edu.hk

Website: www.cityu.edu.hk/sgs/

