

## DEPARTMENT OF MATHEMATICS

City University of Hong Kong

**S E M I N A R**  
(online via ZOOM)

### Scientific Computing for Dimensionality Reduction of Large-Scale Data

by

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**Date: 14 April 2020 (Tuesday)**  
**Time: 10:00 – 11:00 am**

#### ABSTRACT

Over the past few decades, a lot of attention has been drawn to large-scale streaming data analysis, where researchers are faced with huge amount of high-dimensional data acquired in a stream fashion. In this case, conventional algorithms that compute the result from scratch whenever a new data comes are highly inefficient. To handle this problem, we developed a new incremental regularized least squares algorithm that is applied to supervised dimensionality reduction of large-scale streaming data with focus on linear discriminant analysis. Experimental results on real-world data sets demonstrate the effectiveness and efficiency of our algorithm.

Registration URL: [https://cityu.zoom.us/meeting/register/tZwpc-CqpjgpFJDevZis\\_gJqRDvorUQUlg](https://cityu.zoom.us/meeting/register/tZwpc-CqpjgpFJDevZis_gJqRDvorUQUlg)  
[Zoom meeting link will be provided via email after registration.]

~ALL ARE WELCOME~