The Chinese University of Hong Kong
**DEPARTMENT OF STATISTICS**
香 港 中 文 大 學
統 計 學 系

# DISTINGUISHED LECTURE

# LOW RANK TENSOR METHODS IN HIGH DIMENSIONAL DATA ANALYSIS

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Co-Editor, Annals of Statistics, 2019—2021
Medallion Lecturer, Institute of Mathematical Statistics, 2018
Leo Breiman Junior Award, ASA Section on SLDS, 2017
Guy Medal in Bronze, Royal Statistical Society, 2014
CAREER Award, DMS, National Science Foundation, 2009
Distinguished Cancer Scholar, Georgia Cancer Coalition, 2007
John van Ryzin Award, ENAR, 2004

Date:   8 March 2019 (Friday)
Time:   11:00 am — 12:00 pm
Venue:  Swire Hall 1, Fung King Hey Building,
          The Chinese University of Hong Kong

## Abstract

Large amount of multidimensional data in the form of multilinear arrays, or tensors, arise routinely in modern applications from such diverse fields as chemometrics, genomics, physics, psychology, and signal processing among many others. At the moment, our ability to generate and acquire them has far outpaced our ability to effectively extract useful information from them. There is a clear demand to develop novel statistical methods, efficient computational algorithms, and fundamental mathematical theory to analyze and exploit information in these types of data. In this talk, I will review some of the recent progresses and discuss some of the present challenges.

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For enquiries please contact Miss Esther TAM (Tel: 3943 7931)
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