



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

**SEMINAR ON DATA SCIENCE
AND APPLIED MATHEMATICS**

**Partial Differential Equation Principled
Trustworthy Deep Learning**

By

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Abstract

This talk contains two parts: In the first part, I will present some recent work on developing partial differential equation principled robust neural architecture and optimization algorithms for robust, accurate, private, and efficient deep learning. In the second part, I will discuss some recent progress on leveraging Nesterov accelerated gradient style momentum for accelerating deep learning, which again involves designing stochastic optimization algorithms and mathematically principled neural architecture.

Date : 07 May 2020 (Thursday)
Time : 10:30am – 12:00noon
Zoom Meeting : <https://hkust.zoom.us/j/5616960008>

All are Welcome!