



THE HONG KONG  
POLYTECHNIC UNIVERSITY  
香港理工大學



DEPARTMENT OF APPLIED MATHEMATICS

應用數學系

**The Hong Kong Polytechnic University  
Department of Applied Mathematics**

**Colloquium**

**Variational Principle Based Method for Image Processing**

**By**

**Prof. Zhongyi Huang  
Tsinghua University**

**Abstract**

In this talk, we focus on image restoration/segmentation/super-resolution. We propose some new models for image restoration/segmentation/super-resolution. We then employ the tailored-finite-point method (TFPM), to solve the associated equation based on variational principle. Numerical experiments are presented to demonstrate the effectiveness of the proposed models and its features.

**Date: 2 December 2021 (Thursday)**

**Time: 9:00-10:00 (Hong Kong Standard Time GMT +8)**

**Venue: Online Talk via Zoom (Meeting ID: 948 8133 3112)**

**Speaker: Prof. Zhongyi Huang, Tsinghua University**

**Host: Prof. Zhonghua Qiao, The Hong Kong Polytechnic University**

**Click to join:**

<https://polyu.zoom.us/j/94881333112?pwd=dVdQUi9LSGNkRkdRaGFkZ2x5MFVjQT09>



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**\*\*\* ALL ARE WELCOME \*\*\***

For enrolment, please send your name and email to [wai-yan.moon@polyu.edu.hk](mailto:wai-yan.moon@polyu.edu.hk) on or before 1 December 2021