MATH-IMS Joint Applied Mathematics Colloquium Series
The Chinese University of Hong Kong

This MATH-IMS Joint Colloquium Series is organized by Center for Mathematical Artificial Intelligence (CMAI), under Department of Mathematics and Institute of Mathematical Sciences (IMS) at The Chinese University of Hong Kong. The colloquium series focuses on mathematics and applications of artificial intelligence, big data and related topics.

Date: April 30, 2021 (Friday)
Time: 15:00-16:00 (Hong Kong Time)
Zoom Link: https://cuhk.zoom.us/j/92775210812

A Personal and Historical View of Computational Mathematics

Speaker: Professor Tony Chan, KAUST

Abstract: In its modern incarnation, computational mathematics is a discipline that blossomed only after WWII. But even in its relatively brief history, there has been some major shifts in its methodology, emphasis, and applications. In this talk, I'll give a personal and historical view of this development, based on my own professional career and experience.

Bio: Professor Tony Chan is currently the president of King Abdullah University of Science of Technology (KAUST) since Sep 1, 2018, after nearly a decade as president of HKUST. Prof. Chan obtained his B.S. in Engineering and M.S. in Aeronautics at Caltech in 1973. Later in 1978, he got his Ph.D in Computer Science at Stanford University, United States. Moving from Caltech to Yale then to UCLA, Prof. Chan was the Chair at Department of Mathematics at UCLA from 1997-2000 and served as dean of physical sciences from 2001 to 2006. He was one of the principal investigators who made the successful proposal to the National Science Foundation (NSF) to form the Institute for Pure and Applied Mathematics, an NSF-funded institute at UCLA. He served as its director from 2000 to 2001. From 2006-2009, Prof Chan was Assistant Director of the Mathematical and Physical Sciences Directorate, which is the largest directorate at NSF. From 2009-2018, Prof. Chan was the president of HKUST. Prof. Chan has achieved numerous awards and recognition. For example, he is an elected fellow of SIAM, elected member of US National Academy of Engineering, fellow of HKAES, founding member and board of directors for Academy of Sciences of Hong Kong, elected fellow at IEEE, etc. Prof. Chan's professional field is computational mathematics, with interests including image processing and computer vision, physical circuit design and computational human brain mapping. He has been one of the most cited mathematicians in the world and published over 200 refereed papers.