



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI MATEMATICA



SEMINARS OF APPLIED MATHEMATICS

This seminar series aims at providing a forum for exchanging ideas and presenting advances in the field of Applied Mathematics, Numerical Analysis and Real-World Problems.

The seminars will foster collaborations between international research groups in different scientific areas, so as to increase awareness of the wide range of applications of mathematics.

December 20, 2021 - h 11:00 a.m. UTC +1

in presence:
aula Vitali

on-line:
Zoom Meeting

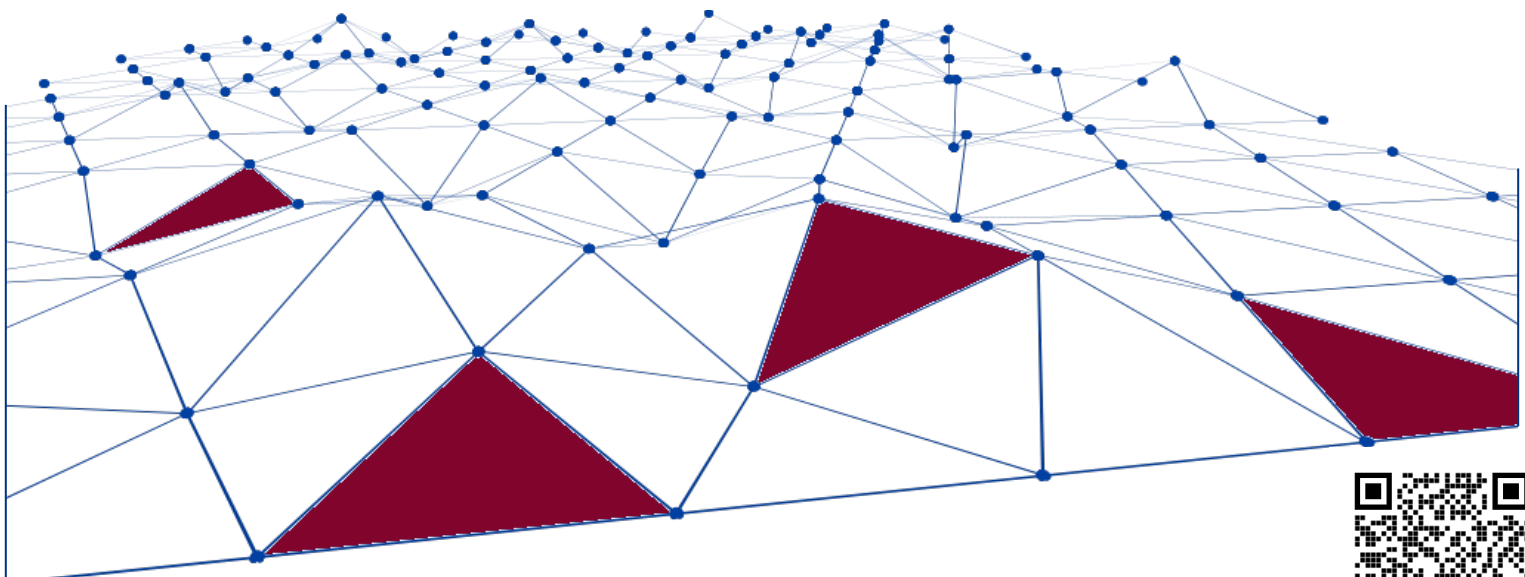
Professor **Raymond Honfu CHAN**

City University of Hong Kong

Chair Professor of the Department of Mathematics and Vice-President of Student Affairs at City University of Hong Kong and a Co-Director of the Hong Kong Centre for Cerebro-Cardiovascular Health Engineering. Winner of the Feng Kang Prize and Morningside Award, SIAM Fellow and AMS Fellow.

Sparsity: The beauty of less is more

With advances in sensor technology, data has become ubiquitous. To make sense of the data we have to solve higher and higher dimensional problems that may seem intractable. However, many high-dimensional problems have solutions that live in low-dimensional space. Sparsity is a way to exploit the low-dimensional structure of solutions to obtain feasible solutions for high-dimensional problems. In this talk, Professor Chan will introduce regularisation methods that enforce sparsity in solutions and their application to several image reconstruction problems, including single-molecule localisation microscopy and ground-based astronomy.



https://centri.unibo.it/am2/en/events/seminars-of-applied-mathematics-chan

detailed info and registration

