

## Ballroom (all) - Tue

### Financial Mathematics

- ▶ 09:40 Zhou Zhou (The University of Sydney)  
*TIME INCONSISTENCY, PRECOMMITMENT AND EQUILIBRIUM STRATEGIES FOR A STACKELBERG GAME*
- ▶ 10:00 Yawen Zheng (University of Wollongong)  
*A generalized approach for pricing American options under regime-switching model*
- ▶ 10:20 Xihao HE (The Chinese University of Hong Kong)  
*A mean-field version of Bank-El Karoui's representation of stochastic processes*
- ▶ 10:40 Yu Tian (Monash University)  
*The retirement income market in Australia*

### Plenary Talk

- ▶ 11:20 Plenary 4

### Financial Mathematics

- ▶ 12:20 Chao Zhou (National University of Singapore)  
*Large ranking games with diffusion control*
- ▶ 12:40 Lin Ai (None)  
*Parasian over Parisian, how much earlier should one exercise?*

## Tully 1 (all) - Tue

## Material Science, Solid Mechanics

- ▶ 09:40 Zachary James Wegert (Queensland University of Technology)  
*Constrained level set-based microstructure optimisation with a Hilbertian projection method*
- ▶ 10:00 Kirsten Louw (University of South Australia)  
*Two-dimensional ferric ion diffusion in an analyte solution with a MOF crystal sink*
- ▶ 10:20 Pierluigi Cesana (Kyushu University)  
*Mesoscale modeling of systems of disclinations and dislocations*

## Scientific Computing and Numerical Analysis

- ▶ 10:40 Boris Baeumer (University of Otago)  
*A resolvent positive finite difference scheme of order alpha for fractional derivatives on bounded domains*

## Networks, Operations Research and Logistics

- ▶ 12:20 Syarifah Nordin (UNIVERSITI TEKNOLOGI MALAYSIA)  
*Multiple criteria Decision Making for Technology Value Index and Technology Commercial Index in Patent Selection*
- ▶ 12:40 Liam Timms (The University of Queensland)  
*A Room Inventory Model for Operating Room Planning and Scheduling*

## Null Session

- ▶ 19:00 ANZIAM Annual General Meeting (in Tully 1)
- ▶ 21:00 ANZIAM Executive Meeting (in Tully 1)

## Tully 2 (all) - Tue

## Mathematical Ecology and Conservation

- ▶ 09:40 Thomas Taimre (The University of Queensland)  
*Rare-event simulation techniques for structured fisheries models*
- ▶ 10:00 Jun Ju (The University of Queensland)  
*Model-based Offline Reinforcement Learning for Sustainable Fishery Management*
- ▶ 10:20 Matthew Holden (The University of Queensland)  
*Value of Model Complexity for Fisheries Management*
- ▶ 10:40 Manuela Mendiolar (The University of Queensland)  
*Balanced harvest in an age-structured fishery model*
- ▶ 12:20 Tace Stewart (Queensland University of Technology)  
*Conservation planning in the presence of cumulative disasters*
- ▶ 12:40 Cailan Jeynes-Smith (Queensland University of Technology)  
*Adaptation in ecosystems: Lessons from cellular signalling networks*

## Tully 3 (all) - Tue

### Mathematical Epidemiology

- ▶ 09:40 Thao Phuong Le (The University of Melbourne)  
*Modelling the impact of hybrid immunity on future COVID-19 epidemic waves*
- ▶ 10:00 Cameron Zachreson (The University of Melbourne)  
*Agent-based modelling of SARS-CoV-2 transmission in quarantine facilities*

## Fluid Dynamics

- ▶ 10:20 Steven Kedda (Queensland University of Technology)  
*Self-similarity and Fractalisation in Interfacial Hydrodynamics*
- ▶ 10:40 Keith Chan (Monash University)  
*A comparison of weakly nonlinear theory to forced internal solitary waves using spectral methods*
- ▶ 12:20 Madeleine Cockerill (University of Tasmania)  
*Large amplitude non-spherical bubbles*
- ▶ 12:40 Nitay Ben Shachar (The University of Melbourne)  
*Near-continuum oscillatory gas flows with finite gas-surface accommodation*