Symposium on "Complexity, Criticality and Computation" (C3-2019)

Program

At this symposium, we focus on two broad themes: Sociophysics and Biocomplexity, across a diverse range of topics studied in Complex Systems:

- collective behaviour (opinion dynamics, swarm intelligence, active matter)
- nonlinear dynamics and critical phenomena
- anthropocene transitions (urban science, systemic risks, supply chains, economics)
- information theory and thermodynamics
- artificial intelligence and pattern discovery
- computational neuroscience and complex networks

Speakers and presentations

Keynote Speakers:

- Prof. Dr. Stefan Bornholdt, Institute for Theoretical Physics, University of Bremen, Germany
- Prof Roland Fletcher, The University of Sydney, Australia
- Prof Sheri Markose, University of Essex, UK
- A/Prof Tiago de Paula Peixoto, Central European University, Hungary

Regular Speakers:

- Dr Arunima Malik, The University of Sydney, Australia
- A/Prof Eduardo Altmann, The University of Sydney, Australia
- Dr Debora Correa, The University of Western Australia, Australia
- A/Prof Markus Brede, University of Southampton, UK
- Dr Michael Harre, The University of Sydney,
- A/Prof Richard Morris, UNSW, Australia
- Dr Emanuele Crosato, UNSW, Australia
- Prof Maia Angelova Turkedjieva, Deakin University, Australia

The Centre for Complex Systems "Emerging Aspirations" award speakers:

- Dr Svetlana Postnova, The University of Sydney, Australia
- Dr Mac Shine, The University of Sydney, Australia
- Dr Richard Spinney, The University of Sydney, Australia

Program committee

- Prof Mikhail Prokopenko (co-chair)
- Dr Michael Harre (co-chair)
- Dr Kirill Glavatskiy
- A/Prof Pulin Gong
- Madeleine Roberts (administrative contact)