



Australia's
Global
University

THE 4TH IEEE SYSTEMS MODELLING CONFERENCE A VIRTUAL CONFERENCE

27 October 2020

BUILDING RESILIENT FUTURES: USING MODELS FOR FORESIGHT

CONFERENCE BACKGROUND

Systems thinking and modelling (ST/SM) is the science of integration, where every system is conceptualised as a set of inter-related components. ST/SM enables researchers to answer several questions, including how an assumedly pure-technical/infrastructural system co-evolves with the society and economy, how a system can result in unexpected behaviours in long-term, and how we should be prepared to deal with unexpected surprises and shocks.

The UNSW Canberra Capability Systems Centre presents the 4th Annual Systems Modelling Conference (SMC2020) highlighting the use of whole-systems approaches to design and manage complex problems in socio-technical and socio-ecological systems. This event provides a platform for academia, industry and government to discuss scientific and practical aspects of real-world problems, share lessons learnt and initiate future collaborations.

COVID-19 IMPACTS ON ANNUAL SYSTEMS MODELLING CONFERENCE 2020

In light of the global COVID-19 pandemic, SMC2020 aims to support international efforts to slow the spread of the virus and ensure the safety of individuals and communities by holding the conference virtually. This complementary virtual conference is an opportunity to create an inclusive event allowing worldwide participation.

We look forward to welcoming you to the virtual SMC2020 in October.

CONFERENCE THEME

Building resilient futures: using models for foresight

The last few years have seen records broken globally from soaring temperatures, unprecedented natural disasters, mass immigration and unforeseen political movements. During recent months, the world has seen the COVID-19 pandemic emerge as a universal crisis requiring immediate, wide-spread and evidence-based action.

As the landscape of our social, economic, and environmental systems change, our ability to cope and adapt to these changes must also evolve by building resilient and agile systems, organisations, and communities which can manage, recover, and harness change.

This will require a transformation in the way we use models from being predictive tools to foresight devices. What are the challenges that the modelling community need to foresee and confront if we would like to be at the forefront of decision support? What are the opportunities ahead? It is both an exciting and a scary time to be a modeller. Thus, this year's conference theme is "Building resilient futures: using models for foresight".

SMC 2020 is aimed to facilitate a critical discussion on model-based policy development by asking if models can sufficiently address the challenges our society must face today and tomorrow. SMC2020 provides an opportunity to analyse prior models and their evolution in light of recent events and understand how they may inspire future direction for the next generation of models under disruptions.



KEYNOTE SPEAKERS

- Professor Dursun Delen
Regents Professor, Spears and Patterson Chairs,
Spears School of Business,
Oklahoma State University, USA
- Distinguished Professor Alexey Voinov
School of Information, Systems and Modelling
Director, PERSWADE - Centre on Persuasive Systems
for Wise Adaptive Living University of Technology
Sydney, Australia
- Dr Louise Freebairn,
Knowledge Translation and Health Outcomes
with the Epidemiology Section at ACT Health
- Dr Oz Sahin,
Research Program Director,
Griffith Climate Change Response Program and
School of Engineering and Built Environment,
Griffith University

ORGANISING COMMITTEE

Dr. Hasan Turan (UNSW Canberra)

Associate Professor Sondoss Elsayah (UNSW Canberra)

Professor Michael J. Ryan (UNSW Canberra)

Fateme Zare (UNSW Canberra)

Any enquiries should be directed to
smc-2020@easychair.org in the first instance.

REGISTRATION

This is a free event for both presenters and listeners.

SUBMISSION METHOD

Authors are requested to submit their papers electronically using the [Electronic Submission System](#) in PDF format before the deadline.

Note: To submit a paper you require to have an EasyChair account. Follow the link [EasyChair Signup](#) to create EasyChair account, if needed.

SUBMISSION TYPE

Full Paper (Presentation and Publication)

The UNSW Capability Systems Centre is delighted to invite prospective authors to submit full papers that report original, unpublished experimental or theoretical research results. The Full Paper can include tables, figures, and references and will be accepted by [Electronic Submission System](#). All submissions must not be under consideration for publication elsewhere.

Outcomes will be communicated to authors by 15 September. Manuscripts should follow the style of the Conference and are subject to both review and editing. The accepted full paper submissions will be indexed by IEEE and published on the SMC2020 [website](#).

Extended Abstract (Presentation Only)

Prospective authors are invited to submit an abstract that is maximum 500 words by 1 October 2020 through the [Electronic Submission System](#). Accepted abstracts will be presented at SMC2020 but will not be published online.

Extended abstracts should describe the key research questions, theory, method and findings, and references.

Templates

For more information and templates please visit the conference [website](#).

KEY DATES

Full Papers

2 June 2020	Submission System Opens
30 August 2020	Submission deadline
15 September 2020	Review notifications
30 September 2020	Final submission of revised full papers
27 October 2020	Conference date

Extended Abstracts

2 June 2020	Submission Systems Opens
1 October 2020	Submission deadline
10 October 2020	Review notifications
27 October 2020	Conference date

