Call for Participation

NTU@one-north, Singapore
https://www.ssagsg.org/AsiaSim2025

AsiaSim (Asia Simulation Conference), 24th in the series, is an annual international conference organized by the Federation of Asia Simulation Societies (ASIASIM) whose current member societies are China Simulation Federation (CSF), Japanese Society for Simulation Technology (JSST), Korea Society for Simulation (KSS), Society for Simulation and Gaming of Singapore (SSAGsg) and Malaysian Simulation Society (MSS). The Federation of Asia Simulation Societies (ASIASIM) was set up to promote the advancement of modelling and simulation in industry, research and development in Asia and beyond.

The AsiaSim conference is an international forum for disseminating recent advances in modeling, simulation and gaming. AsiaSim provides a meeting place for simulation researchers and practitioners in all disciplines in academic, industry, government sectors among others to share leading developments and advances in systems simulation.

We welcome you to tropical Singapore, a dynamic city rich in contrast and colour where you will find a harmonious blend of culture, cuisine, arts and architecture. Located in the heart of fascinating South East Asia, Singapore continues to embrace tradition and modernity today. We are proud to be the host of AsiaSim 2025 and welcome you to our city.

The technical program will comprise keynote speeches, technical sessions, and vendor exhibits. The venue of the conference will be at *NTU@OneNorth*, which is just a walk away from Buona Vista MRT and a short MRT ride away from town. There will be a reception on the first day and the ASIASIM night (conference dinner) on the second day. Please register at:

https://www.ssagsg.org/AsiaSim2025/register.html

Keynote Speakers

Simulation-Enabled Digital Twins – A Journey from Neutrino Physics at CERN to AI Training for Semiconductor Manufacturing in Singapore

Peter Lendermann
Co-Founder and Chief Business Development Officer
D-SIMLAB Technologies Pte Ltd, Singapore

Abstract
Digital Twins have become a key element of the ongoing global Industry 4.0 campaign with the objective of speeding up digitalization in production and logistics. The potential of the Digital Twin concept for the enhancement and continuous re-optimization of manufacturing and logistics operations has generally been recognized and accepted in both academia and industry. However, what a Digital Twin entails and what it should be able to do, or rather what it can be used for, especially in the recent light of the rise of Artificial Intelligence techniques, remains controversial to some extent.
In this setting, in my Keynote Presentation I will share some my own experiences and challenges faced with creating and making use of Digital Twins, starting from my initial involvement in a neutrino experiment at CERN in Geneva in the early 1990's, all the way to providing a simulation-enabled Digital Twin framework for multiple application use cases including training of AI models, accomplished through our Singapore-headquartered company D-SIMLAB Technologies, to help Semiconductor Manufacturing companies worldwide resolve mind-blowing challenges around capacity planning and WIP flow optimization.

We Simulate, Therefore We Survive

Dr Fritz Hardtke
Director, Simulation Australasia, and
Associate Lecturer and Research Fellow, Macquarie University, Australia

Abstract
We are facing a convergence of global challenges that are testing the limits of our systems — environmental degradation, armed conflict, pandemics, economic fragility, and the rapid advance of technologies with far-reaching consequences. These are not distant threats. They are here, now, and unfolding in ways that are complex and often unpredictable. In such times, the role of simulation is not just valuable — it's essential. Simulation enables us to explore scenarios, test decisions before they are made, and understand the interplay of systems under stress. It allows us to prepare rather than react. This keynote will explore how simulation contributes directly to our wellbeing and survival — not in a theoretical sense, but in practical, measurable ways. Drawing on real-world examples across sectors, I will argue that simulation must move from the margins of decision-making to its centre — because our ability to simulate wisely and act on what we learn may be one of the few capabilities that can carry us through what lies ahead.

Conference Co-Chairs
- Wentong CAI, Nanyang Technological University, Singapore (aswtcai@ntu.edu.sg)
- Malcolm LOW, Singapore Institute of Technology, Singapore (malcolm.low@singaporetech.edu.sg)

Program Co-Chairs
- Gary TAN, National University of Singapore, Singapore (gtan@comp.nus.edu.sg)
- Gabriele D'ANGELO, University of Bologna, Italy (g.dangelo@unibo.it)

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- Nanyang Technological University, Singapore
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- Society of Simulation and Gaming of Singapore

For any enquiries, please send email: asiasim2025@ssagsg.org

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