

Call for Papers:

SIMS 2020

Virtual SIMS Conference on Modelling and Simulation

SIMS 2020 will be held as a Virtual Conference

SEPTEMBER 22-24, 2020,

Dear friends and partners,

It is our great pleasure to invite you to join us at the 61st SIMS Conference on Modelling and Simulation, SIMS 2020, which will be held on 22 - 24 September 2020 as a Virtual Conference. The background of this conference series is in the 60-years history of Scandinavian Simulation Society, SIMS.

The conference will be organized by SIMS, EUROSIM, the Finnish Automation Forum (FinSim), the Finnish Society of Automation (FSA) and University of Oulu.

The SIMS 2020 provides a forum where automation professionals from industry and science exchange knowledge, experiences and strengthen multidisciplinary network. On the stage visions are presented and shared with old and new colleagues. The SIMS 2020 is expected to participants worldwide in the field of modelling and simulation. The program of the congress has a multi-conference structure with several special topics related to methodologies and application areas. The programme includes invited talks, parallel, special, poster and pitch sessions.

We are inviting you to submit your contribution to the high standard international simulation conference.

Please visit <https://www.scansims.org/> and <https://automaatioseura.fi/simseurosim2020> for further information.

We look forward to meeting you at the Virtual SIMS Conference!

*Esko Juuso, SIMS 2020 Chair,
Bernt Lie, President of SIMS, IPC Chair and
Jari Ruuska, NOC Chair*

IMPORTANT DATES

Thematic session proposals and short abstracts

Proposals with abstracts May 22, 2020
Notification of acceptance June 5, 2020

Full Scientific and Industrial Contributions

Extended abstracts May 22, 2020
Notification of acceptance June 5, 2020
Draft full paper submission July 7, 2020
Notification of acceptance July 24, 2020
Final camera-ready manuscripts August 21, 2020

Discussion and Student Contribution

Short abstracts June 30, 2020
Notification of acceptance July 7, 2020
Draft short paper submission July 24, 2020
Notification of acceptance August 5, 2020
Final camera-ready short papers August 21, 2020

Industrial Extended Abstract Contributions

Short abstracts June 30, 2020
Notification of acceptance July 7, 2020
Draft extended abstracts July 24, 2020
Notification of acceptance August 5, 2020
Final Extended Abstracts August 22, 2020

Author registration August 21, 2020

SIMS EUROSIM Conference September 22 - 24, 2020

We encourage authors to continue their submissions by these deadlines but we will remain supportive and flexible as we understand that the pandemic situation may affect the individual processing times. We will continue to update you throughout the next few months about adjustments that might need to be made.

SIMS 2020 Secretariat

Finnish Society of Automation /
Finnish Automation Support Ltd
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Areas of interest

Conference topics include, but are not limited to:

- ▶ Adaptive dynamic programming and reinforcement learning
- ▶ Automotive applications e-science and
- ▶ E-Systems industry, business management, human factors and social issues
- ▶ Autonomous systems
- ▶ Bioinformatics, medicine, pharmacy and bioengineering
- ▶ Buildings and construction
- ▶ Circuits, sensors and devices
- ▶ Communication systems
- ▶ Computational finance & economics
- ▶ Condition monitoring, mechatronics and maintenance
- ▶ Control of intelligent systems
- ▶ Data & semantic mining
- ▶ Discrete event systems
- ▶ Energy and power systems
- ▶ Forest industry
- ▶ Hybrid and soft computing
- ▶ Image, speech & signal processing
- ▶ Intelligent systems and applications
- ▶ Internet modelling, semantic web and ontologies
- ▶ Mobile / Ad hoc wireless networks, mobicast, sensor placement, target tracking
- ▶ Neural networks, fuzzy systems & evolutionary computation
- ▶ Operations research
- ▶ Manufacturing and workflows
- ▶ Mining and metal industry
- ▶ Parallel and distributed architectures and systems
- ▶ Robotics, cybernetics, control engineering & manufacturing
- ▶ Security modelling and simulation
- ▶ Simulation methodologies and tools
- ▶ Systems intelligence and intelligence systems
- ▶ Transport, logistics, harbor, shipping and marine simulation
- ▶ Water, and wastewater treatment, sludge management and biogas production
- ▶ Virtual reality, visualization, computer art and games

Pitch sessions and tutorials

Pitch sessions and tutorials are available for presenting products and services. The pitch sessions include short presentations for wide audience. Tutorials provide an additional option for longer presentations. Please visit <https://automaatioseura.fi/sims2020> for further information and registration for pitch sessions and tutorials.

Venue

All the sessions and social program will be held online. Physical conference attendance is not possible since physical venues are not provided. The software platform for the Virtual Conference and the Conference program will be released duly before the conference.

Social program

General interest program and virtual meeting rooms for coffees, refreshments and cocktails will be planned for conference participants.

Submissions

Five types of contributions can be offered to the SIMS EUROSIM 2020 conference:

- ▶ **Scientific papers** must be written in English and will be accepted for presentation based on a peer review of the draft papers. The peer-reviewed conference articles will be published in Linköping Electronic Conference Proceedings Series <http://www.ep.liu.se/ecp/index.en.asp>.
- ▶ **Industrial papers** can be submitted as scientific papers. Additionally, industrial papers written in English, Finnish or Swedish can be submitted as full papers to be reviewed for publication in the conference proceedings published by The Finnish Society of Automation. Interesting case reports are welcomed as well.
- ▶ **Extended abstracts:** The presentation at the conference can also be accepted on the basis of extended abstracts without a full paper. Extended abstracts will be published by The Finnish Society of Automation.
- ▶ **Short papers:** Student/Discussion papers should follow the writing guidelines of scientific papers when applicable. The final guidelines will be available in review phase. Selected short papers will be published by Journal SNE, <https://www.eurosim.info/journal-sne>
- ▶ **Posters:** Submissions are accompanied with short papers or extended abstracts.

Registration information at <https://www.scansims.org/> and <https://automaatioseura.fi/simseurosim2020>.

EasyChair is used for submission of all papers and abstracts. The site is open. Please follow the link <https://easychair.org/my/conference?conf=simseurosim2020>.

Copyright

All publication material submitted for presentation at the congress must be original and hence cannot be already published, nor can it be under review elsewhere. The authors take responsibility for the material that has been submitted. For further information available from <https://automaatioseura.fi/simseurosim2020>.