

SIMS2018 OSLO: CALL FOR PAPERS

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The 59th International Conference of Scandinavian Simulation Society, 26.-27.(28) September 2018 in Oslo

Oslo and Akershus University College (HiOA) in collaboration with University College of Southeast Norway (HSN), Norwegian University of Science and Technology (NTNU) and Norwegian Society of Automatic Control (NFA) is proud to arrange the 59th International Conference of Scandinavian Simulation Society ([SIMS2018](#)) in Oslo, Norway.

The [SIMS2018](#) conference will cover broad aspects of simulation, modeling and optimization in engineering, especially in energy applications. The scientific program will include technical sessions with submitted and invited papers, and might be open for poster sessions and vendor demonstrations. Especially Ph.D. students are encouraged to contribute with papers according to the conference themes.

Venue: The SIMS2018 conference will be held at Oslo and Akershus University College, [Pilestredet 46](#), in the center of Oslo, Norway.

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Submissions <https://easychair.org/conferences/?conf=sims20180>

Important Dates

- ✓ January 29 - Submission of extended abstracts (extended with two weeks)
- ✓ February 26 - Abstract notification of acceptance
- ✓ April 16 - Submission of full paper for review
- ✓ May 25 - Full paper notification of acceptance and comments from the scientific committee
- ✓ June 18 - Camera-ready manuscript
- ✓ June 18 - Deadline for early registration
- ✓ September 26-27 – SIMS conference key note and technical presentations
- ✓ September 28 – SIMS conference study visit to VEAS water treatment plant

Conference Themes:

- Modeling and simulation for design, planning, optimization, control, monitoring and diagnostics
- Modeling tools, numerical methods for simulation, simulation tools and technology
- Visualization of modeling and simulation results

Application areas include: Automotive energy systems, Bio energy and biofuels, Biosystems and medical systems, Carbon capture and storage, Chemical process plants, Electric power systems, Energy storage, Energy and climate, Environmental impact, Fuel cells, Geothermal systems, Health and Welfare, Heat pumps, Hybrid and electrical vehicles, Hydro power, Industrial energy systems, Marine energy systems, Mechatronic energy systems, Oil and gas exploration and production, Photovoltaics, processing plants, Power stations, Refrigeration systems, Solar thermal systems, Thermal power plants, Wave and tidal power, Wind power.

KeyNote speakers:

Jens Pålsson is a project manager and senior staff at Modelon. His educational background includes a PhD and an MSc in Mechanical Engineering from Lund University, and Swiss federal institute of technology, with specialty in energy sciences. Jens sees large potential in model based development as a way to cut cost and lead times, and to come up with optimized solutions.

Carlos Grande is a Senior Research Scientist at SINTEF Materials and Chemistry, Department of Sorbent Technologies. His educational background includes a PhD in Chemical Engineering from the University of Porto. He is the project manager for European projects MATESA: Advanced Materials and Electric Swing Adsorption Process for CO₂ Capture and PRINTCR3DIT: Process Intensification through Adaptable Catalytic Reactors made by 3D Printing.

Submission procedure

Easy Chair will be used for submission of papers. Please follow this link <https://easychair.org/conferences/?conf=sims20180> to submit your abstract and your full article.

Extended abstracts

- The abstract should be structured into the following sections:
- Title which clearly indicates the research topics.
- Authors, names institute, country and email address. The first/presenting author is responsible for ensuring that all authors have agreed to be co-authors.
- Key words (3-5). Background, Aims, Materials and methods, (Results, Conclusions).
- Maximum length of the abstract is 5000 characters, about 700 words or approximately one A4 page. Figures and tables are allowed.

Full articles

- Your paper needs to be re-produced by using new templates LaTeX or DOC: <http://www.scansims.org/media-files/conference-templates-master.zip>
- The article length should be 6 pages, the maximum is 8 pages.
- The peer-reviewed conference articles will be published in Linköping Electronic Conference Proceedings Series (publication level 1 in Finland, Norway and Denmark). Linköping Electronic Conference Proceedings is an open access archive. <http://www.ep.liu.se/ecp/index.en.asp>

Study visit /technical tour

The study visit will be arranged on Friday 28.9.2018 to VEAS water treatment plant. VEAS treats wastewater for 600 000 people living in the Oslo area, in 2016 97 million m³. VEAS produces biogas, electricity, ammonium nitrate and soil. Researchers at USN have been working on modeling and control of the VEAS water treatment system, and will share their insights.

Transportation from HiOA will leave at 09:30. The technical presentation will be given at the Oslo Fjord Museum at 10:00. A guided tour at the VEAS water treatment plant starts around 11:00 and lasts about an hour. Afterwards there will be lunch at VEAS cafeteria. Transportation back to HiOA leaves around 12:30.

Conference Organizing Committee

Program Chairs

Lars Erik Øi, USN, Lars.Oi@usn.no

Tiina Komulainen HiOA, tiina.komulainen@hioa.no

National Organizing Committee

- Oslo and Akershus University College (HiOA): Tiina Komulainen, Evi Zouganeli, Alex Alcocer, Alfredo Carella
- University College of Southeast Norway (USN): Lars Erik Øi, Bernt Lie, Finn Haugen
- Norwegian University of Science and Technology (NTNU): Lars Nord, Dipo Olaitan, Robin T. Bye
- University of Oslo: David Cameron, UiO
- PhD-student committee chairs: Samee Maharjan (USN) and Laura Marcano (HiOA)
- Practical arrangements: Norwegian Society of Automatic Control (NFA) Barbro Berg Bakken bbb@nfaplassen.no

International Program Committee

- Denmark: Shobhana Singh (AAU), Brian Elmegaard (DTU), Hamid Reza Shaker (SDU), Weria Pezeshkian (SDU)
- Finland: Esko Juuso (Oulu Univ.), Peter Ylén (VTT), Mika Ruusunen (Oulu Univ.), Kaj Juslin (Enbuscon), Kai Zenger (Aalto)
- Iceland: Magnus Jonsson (HIS), Silja Rán Sigurðardóttir (OS)
- Sweden: Erik Dahlquist (MDH), Lars Eriksson (LiU)
- Norway: The national organizing committee and Ottar L. Osen (NTNU), Ibrahim A. Hameed (NTNU), Britt Moldestad (USN), Anis Yazidi (HiOA)

Contact Information

- Questions about the submissions should be emailed to HiOA/ Tiina Komulainen tiina.komulainen@hioa.no
- Questions about the program should be emailed to USN/Lars Erik Øi lars.oi@usn.no
- Questions about the study tour should be emailed to USN/Finn Aakre Haugen Finn.Haugen@usn.no
- Questions about practical arrangements should be emailed to NFA/ Barbro Berg Bakken