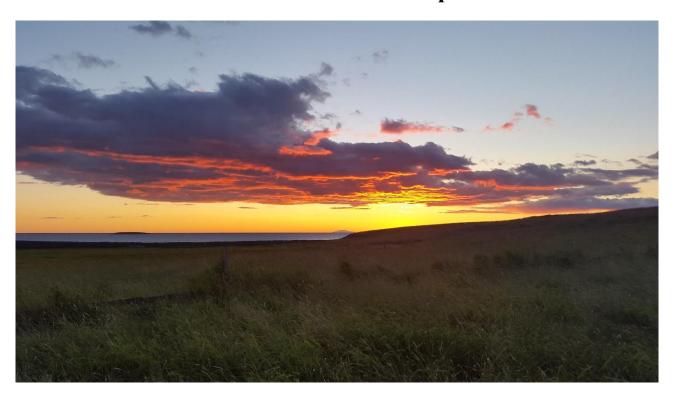
SIMS 2017 Conference

The 58th Conference on Simulation and Modeling (SIMS 2017)

Call for papers 25-27 September 2017 Simulation and Model Based Optimization



SIMS 58

In 2017, the 58th Conference on Simulation and Modeling will be held in Reykjavik, Iceland. Reykjavik is the world's most northerly and one of the smallest capital cities in the world. Although small for a capital it is the country's largest and most populated city and with the urban area population of around 200 000, it is the home of the vast majority of Iceland's people. The city is pioneer in us of geothermal energy to provide low-cost heating and electricity.

The SIMS 58 will cover broad aspects of simulation, modeling and optimization. The ambition is to bring the field of modeling and simulation technics of energy systems applied to the general public as a contributing technology for efficient and sustainable energy systems. The scientific program will include technical sessions with submitted and invited papers, and might be open for poster sessions and vendor demonstrations. The conference organization will try to make a number of

scholarships available for participation of Ph.D. students in the conference; therefore Ph.D. Students are encouraged to contribute with papers according to the conference themes. The conference papers will be published in LiU Electronic Press, which is an open access archive.

Venue

The SIMS 58 will be held at Orkustofnun - National Energy Authority, Grensasvegur 9, IS-108. Reykjavik, Iceland.

Orkustofun is a government agency under the Ministry of Industries and Innovation. Its main responsibilities are to advise the Government of Iceland on energy issues and related topics, license and monitor the development and exploitation of energy and mineral resources, regulate the operation of the electrical transmission and distribution system and promote energy research. The Director General of Orkustofnun is Guðni A. Jóhannesson.

The travel between Keflavik International Airport and Reykjavik is about 45 minutes by bus.

Flybus offers regular service to either the BSI bus terminal, just south of the city center (2200 IKR one way) or directly to Reykjavik hotels.

Gray Line Airport Express offers also regular service directly to Reykavik hotels (2100 IKR one way).

Taxis cost around 15000 IKR for 1-4 passengers and 19000 for 5-8 passengers.

The venue is accessible by public transport (called Strætó in Icelandic) with regular services. Reykjavík's Central Bus Station Hlemmur is located on the main shopping street Laugavegur in Reykjavík. Strætó lists all routes and schedules online, and also offers a free online app for your smartphone: (http://www.straeto.is/app) that allows you to locate buses and pay for rides.

The walking distance from Reykavik Centrum to Orkustofnun is 4 km and takes about 50 min.

SIMS 58 Conference Themes

Topics for the conference include any application of modeling and simulation in general, and papers within this year headline "broad aspects of simulation, modeling and optimization" with focus on energy application are especially welcome.

Topics of interest are:

- Modeling tools
- Numerical methods for simulation
- Simulation tools and technology
- Visualization of modeling and simulation results
- Training simulators and real-time simulation Simulation in control of energy systems
- Thermal power plants
- Refrigeration systems
- Heat pumps

- Wind power
- Photovoltaics
- Solar thermal
- Geothermal systems
- Hydro power
- Wave and tidal power
- Carbon capture and storage
- Energy storage
- Bio energy and biofuels
- Oil and gas exploration Energy system optimization
- Energy planning
- Energy and climate
- Environmental impact of energy conversion
- Process plant simulation
- Simulation in industrial energy systems
- Simulation in the energy sector
- Power station design
- Simulation in chemical process engineering
- Simulation in electric power systems
- Simulation in mechatronic energy systems
- Simulation of marine energy systems
- Performance monitoring and diagnostics
- Fuel cells
- Hybrid and electrical vehicles
- Oil and gas production

Proposals for special topics are welcome. Please forward suggestions to the Organizing Committee.

The focus of this year's conference is simulation and model based optimization of energy systems, but also all kind of simulation papers are very welcome, both relating to software platforms and applications of all kind.

Homepage of the SIMS 58: http://www.scansims.org/

Program

The first two days will be the actual conference and the third day study visits.

Important Dates

- March 31 Submission of Extended abstracts
- April 20 Notification of acceptance of Extended abstracts.
- May 29 Submission of paper for review
- June 30 Comments from scientific committee
- August 14 Camera-ready manuscript
- August 14 Deadline for Early Registration

• September 25-27 - Conference 2017.

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.
- Background, Aims, Methods and Results.
- Conclusions.
- Figures and tables are allowed.
- Maximum length of the abstract is 5000 characters, about 700 words or approximately one A4 page.

Submission procedure

Easy Chair will be used for submission of papers

Follow this link https://www.easychair.org/conferences/?conf=sims2017 to submit your papers.

For more information see http://www.scansims.org/

Proceedings will be published in Linköping University Press.

Conference Organizing Committee

Program Chairs

Magnus Thor Jonsson, University of Iceland

National Organizing Committee

Magnus Thor Jonsson, University of Iceland Baldur Petursson, National Energy Authority Silja Ran Sigurdardottir, National Energy Authority Jonas Ketilsson, National Energy Authority

International Program Committee

Magnus Thor Jonsson, University of Iceland Jónas Ketilsson, Orkustofnun/National energy authority, Iceland Erik Dahlquist, Mälardalens Högskola, Sweden Brian Elmegaard, DTU, Denmark Lars Eriksson, Linköping University, Sweden Britt Moldestad, University College of Southeast Norway, Norway Kaj Juslin, Enbuscon, Finland
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