

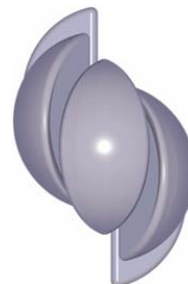
The 55th Conference on Simulation and Modelling (SIMS 55)

Call for papers

21-22 October 2014



DEPARTMENT OF ENERGY TECHNOLOGY
AALBORG UNIVERSITY



SIMS 55

In 2014, the 55th Conference on Simulation and Modelling will be held in Aalborg, Denmark. Aalborg is the second largest event hosting city in Denmark, and is located in the Northern part of Denmark, at the gateway to the largest holiday region in Southern Scandinavia. Aalborg is a city of some 120,000 inhabitants, and can be easily reached directly by North Sea, air or via 24 hr direct train service from Oslo, Gothenburg, and Copenhagen. Aalborg is a relaxed and fun-loving city. That is what visitors always notice. It requires no effort at all to fit in with Aalborg's "feel good" atmosphere.

The SIMS 55 will cover broad aspects of simulation, modelling and optimization. The ambition of the SIMS 55 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. In addition, presented papers will be considered for publication in scientific journal of "Applied Energy (ISSN: 0306-2619)" published by Elsevier Science.

Venue

The SIMS 55 will be held at Aalborg University which is the fifth largest university in Denmark based on the number of enrolled students. Currently, Aalborg University has approximately 22.000 students and 3.500 employees. Although Aalborg University has had strong regional ties since its establishment, internationalization is a cornerstone in AAU's strategy and development, and it is known for its project-oriented educational system. Aalborg University is accessible by direct bus from downtown in 20 minutes and from the airport in 35 minutes.



SIMS 55 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, modelling and optimization” with focus on energy application are especially welcome. Topics of interest are:

Modeling Tools	Oil and gas exploration
Numerical methods for simulation	Energy system optimization
Simulation tools and Technology	Energy planning
Visualization of modeling and simulation results	Energy and climate
Training simulators and real-time simulation	Environmental impact of energy conversion
Simulation in Control of energy systems	Process Plant Simulation
Thermal power plants	Simulation in industrial energy systems
Refrigeration systems	Simulation in the energy sector
Heat pumps	Power station design
Wind power	Simulation in chemical process engineering
Photovoltaics/solar power	Simulation in electric power systems
Geothermal systems	Simulation in mechatronic energy systems
Hydro power	Simulation of marine energy systems
Wave and tidal power	Performance monitoring and Diagnostics
Carbon capture and storage	Fuel cells
Energy storage	Hybrid and electrical vehicles
Bio energy and biofuels	Oil and gas production

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

Registration Fee

SIMS and EuroSim members	€350
Early registration	€400
Late registration	€450
Early registration Ph.D. students	€200
Late registration Ph.D. students	€250
Master students*	Free of charge
Accompanying persons**	€100

**Admission to all the sessions of the conference and the conference proceedings but no refreshments, lunch, conference dinner and Dramatized City Tour.*

*** The registration fee includes the conference dinner and the Dramatized City Tour.*

The registration fees include admission to all the sessions of the conference, the conference proceedings, refreshments, lunch and the conference banquet as well as the event on October 21st.

Homepage of the SIMS 55

www.sims55.aau.dk

Important Dates

Submission of Abstracts	15/04/2014
Notification of acceptance of Abstracts	15/05/2014
Submission of paper for review	15/08/2014
Comments from scientific committee	01/09/2014
Camera-ready manuscript	15/09/2014
Deadline for Early Registration	15/09/2014
Conference	21-22/10/2014

Conference Organizing Committee

International Scientific Committee

Lars Eriksson, Linköping University, Sweden
Erik Dahlquist, Mälardalens Högskola, Sweden
Esko Juuso, University of Oulu, Finland
Brian Elmegaard, DTU, Denmark
Tommy Mølbak, Added Values P/S, Denmark
Axel Ohrt Johansen, Added Values P/S, Denmark
Kaj Juslin, VTT, Finland
Bernt Lie, Høgskolen i Telemark, Norway
Tiina Komulainen, Oslo University College, Norway
Magnus Jonsson, University of Iceland, Iceland
Jónas Ketilsson, National Energy Authority of Iceland, Iceland
Gerhard Nygaard, Cybernetic Drilling Technologies AS, Norway
Kim Sørensen, Aalborg University, Denmark
Mads Pagh Nielsen, Aalborg University, Denmark
Alireza Rezaniakolaei, Aalborg University, Denmark

National Organizing Committee

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Mads Pagh Nielsen, Associate Professor, Aalborg University, Denmark
Alireza Rezaniakolaei, Assistant Professor, Aalborg University, Denmark
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