



Call for Papers: EUROSIM 2016

Dear friends and partners,

It is our great pleasure to invite you to join us at the 9^{th} EUROSIM 2016 Congress which will take place on 12-16 September 2016 in Oulu, Finland. The congress is organized by the Scandinavian Simulation Society (SIMS), the Finnish Society of Automation and University of Oulu. The Oulu City Theatre serves as the main venue.

The EUROSIM 2016 Congress 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 EUROSIM 2016 is expected to attract around 500 participants around the Europe in the field of simulation. The programme 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 and poster sessions, exhibition and versatile technical and social tours.

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

Please visit http://eurosim2016.automaatioseura.fi for further information.

We look forward to meeting you in Oulu 2016!

Esko Juuso, EUROSIM President, Erik Dahlquist, President of SIMS and Kauko Leiviskä, EUROSIM 2016 Chair and Editor

















Save the dates

Minisymposia and Thematic sessions

Proposals with scope March 18, 2016 Notification of acceptance March 24, 2016

Full Contributions Extended

Full draft paper submission May 20, 2016
Notification of acceptance June 10, 2016
Final camera-ready papers June 30, 2016
Author registration June 30 2016

Discussion and Student Contributions Extended

Extended abstracts May 30, 2016
Notification of acceptance June 13, 2016
Final camera-ready short papers June 30, 2016
Author registration June 30, 2016

EUROSIM Congress September 12 - 16, 2016

Co-sponsors:

IEEE Finland Section

The International Federation of Automatic Control Technical Committees on TC 3.2, TC 6.1, TC 6.2, TC 6.3 and TC 6.4 University of Oulu

Organizer: Finnish Automation Support Ltd

Committee Chairs

Erik Dahlquist, Mälardalen University, IPC Chair
Bernt Lie, Telemark University, IPC Co-Chair
Lasse Eriksson, Cargotec Corporation, IPC Vice-Chair, Industry
Kauko Leiviskä, University of Oulu, NOC Chair
Esko Juuso, University of Oulu, NOC Co-Chair
Timo Ahola, Outokumpu Steinless, NOC Vice-Chair, Industry
Pekka Tervonen, University of Oulu, Exhibition & Tutorial, Chair
Peter Ylén, VTT, Publication Chair
Lars Eriksson, Linköping University, Publication Co-Chair

EUROSIM 2016 Secretariat

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Areas of interest

Methodologies

M1 Computational intelligence

Evolutionary computation

Fuzzy systems

Knowledge-based systems

Machine intelligence

Natural language processing

Nature inspired systems

Neural and neurofuzzy systems

Pattern analysis

M2 Concentrated parameter

systems

Ordinary differential equations

Differential algebraic equations

Stochastic systems

M3 Conceptual modelling

M4 Complex systems

M5 Data analysis

Fractional differentiation

Reinforcement learning

Semantic mining

Statistical analysis

M6 Discrete event simulation

M7 Distributed parameter

systems

Computational fluid dynamics

Partial differential equations

Stochastic systems

M8 Operations research

M9 Parallel and distributed

interactive systems

M10 Simulation tools and platforms

Domain-specific tools

Simulation software

Hardware in the loop

Verification and validation

M11 Other Methodologies

Functionalities

F1 Control and optimization

Adaptation

Computers in control

Intelligent analysers

Model-based control

F2 Communication and security
Internet and cloud computing

Mobile and wireless systems

Security

F3 Education and training,

e-Learning

F4 Fault detection & fault

tolerant systems

Condition monitoring

Maintenance

F5 Human-Machine interaction

F6 Mechatronics and robotics

F7 Performance and risk analysis

F8 Planning and scheduling

F9 Sensing

Image, speech and signal

processing

Sensor networks

Circuits, sensors and devices

F10 Virtual reality and visualization

Computer art

Serious games

Visualization

F11 Other Functionalities

Application domains

A1 Bio- and ecological systems

Agriculture

Bioinformatics and

bioengineering

Biological and medical systems

Circular economy

Environmental modelling

Health care

Hydrological models

Pollution and waste

A2 Building and construction

Building automation

Built environment

Construction engineering

Energy and health

A3 Business and management

processes

A4 Economic and social systems

Computational finance

and economics

Control education

A5 Energy

Energy networks for electricity,

heat and gas

Geothermal energy

Hydropower

Power plants

Smart grids for heat and

electricity

Solar energy

Wind energy

A6 Industrial processes

Chemical industry

Forest industry

Manufacturing industry

Metal industry

Mining and mineral processing

Pharmaceutical industry

A7 Security and military

A8 Transportation and vehicle

systems

Aerospace

Automotive applications

Autonomous systems and

vehicles

Harbour, shipping and marine

Logistics

Vehicle systems

A9 Water and wastewater

Treatment plants

Water and wastewater networks

A10 Weather and climate

Air quality models

Atmospheric modelling

Climate modelling

Northern lights

Polar meteorology

Weather models

A11 Other Application Domains

Paper submission

Paper submissions have two categories: full and short. The congress is partly organized as minisymposia, which consist of one or more sessions of coordinated presentations on a single topic of substantial current interest and importance. Thematic session is based upon an explicit problem statement or question and the contributions help to formulate answers. The proposal of a minisymposium or a thematic session must contain the expected number of contributions and a short description of aims and scope. The list of contributions is needed before the review.

Full contributions to the minisymposia as well as thematic and regular sessions must be submitted as draft papers (6 pages, two column). The full papers are peer reviewed for the proceedings. Discussion and student papers are submitted as short papers (2 pages, two column). High quality short papers will be included in the proceedings. The category may change in the review. Minisymposia and thematic sessions can include both full and discussion papers. With acceptance of the organisers, these sessions can be extended by other regular or short submissions. Final papers have to fully comply with author instructions to be included in the proceedings.

Eurosim 2016 is using the EDAS Paper Submission System for submission, paper processing and registration. Submissions will only be accepted through the EDAS system and papers must be in PDF form. Submissions as e-mail attachments will not be accepted. Papers can be registered first and then uploaded at any time up to the paper submission deadline. Submissions must be in IEEE two-column format and must not exceed the page limits, including figures, tables and references. The cover page should contain title, author names, affiliations, and email addresses. Please indicate clearly the corresponding author. Include up to five keywords from the specified list and an abstract of no more than 200 words.

The proceedings will be published by the prestigious Conference Publishing Services (CPS) and submitted to the CSDL and Xplore. The congress and proceedings meets IEEE's quality standards. All of the author papers in the publication will have a Digital Object Identification Number (DOI), allowing for easy searches and protection against plagiarism.

The proceedings published by CPS are submitted for indexing through INSPEC, EI's Engineering Information Index, Compendex, and ISI Thomson's Scientific and Technical Proceedings, ISTP/ISI Proceedings, and Current Contents on Diskette. IEEE conference publications may also be indexed into specialized indexing services based on their content topic.

Selected papers will be considered for the revised publication in peer reviewed journals. An additional review is done by the journals according to their own scope and requirements. The topics are organised as four groups of tracks:

- Modelling and simulation methodologies (M1-M11)
- Functionalities (F1-F11)
- Application domains (A1-A11)
- Minisymposia (S1-Sn)

Paper submission: the EDAS system http://edas.info and IEEE templates for conference proceedings

http://www.ieee.org/conferences_events/conferences/publishing_/templates.html The paper size is A4.

In the EDAS paper submission system, the paper is submitted to one Track (see Topics). For the review and the programme, a combination of active tracks is needed. The information of other tracks, preferably one track from each group (M, F, A), should be included in the keywords as indices (Mm, Ff, Aa). The tracks should be chosen in the order of preference. These additional keywords are not needed in the manuscripts. The minisymposia are special tracks where an acceptance of the organizer is needed. Contact information is given in minisymposium information. Additional information on related tracks should be given for these submissions as well.

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. The publication follows the IEEE Policy on Electronic Dissemination.

Exhibition and tutorials

Exhibition area is available for presenting products and services. The program includes vendor sessions to give short presentations for wide audience. Tutorials provide an additional option for longer presentations.

Please visit http://eurosim2016.automaatioseura.fi for further information and registration for exhibition and tutorials.

Technical visits and social tours

Technical visits, including industries, power plants and a smart residential area, will be organized by Finnish Automation Support Ltd: registration at http://eurosim2016.automaatioseura.fi. Links will be provided for social tours arranged by service providers.

Registration fee

An early registration fee by June 30, 2016 for members of the EUROSIM societies or IEEE is EUR 590, non-members EUR 740 and students EUR 290. After June 30, the fees are EUR 650 for members, EUR 815 for non-members and 340 for students. The minisymposia and thematic session organizers get a reduction of EUR 60. Registration for accompanying persons is EUR 120. A complete pre-payment by one of the authors is required before

uploading the final paper. A second paper may be submitted by a registered author for an administrative fee of EUR 100.

The registration fee includes one paper submission, admission to all the sessions during three days, conference proceedings, lunches, coffees, a get-together party, the conference dinner and 24% VAT. Students are entitled to the conference dinner on extra fee.

Venue

EUROSIM 2016 Conference will be organized in the heart of the Oulu City at the main venue of Oulu City Theatre. Oulu, the capital of northern Scandinavia is located on the coast of the Gulf of Bothnia 220 kilometers south of the Arctic Circle and Lapland. Oulu offers the combination of a charming small city, urban Centre and dynamic university with 16 000 students. Oulu has been awarded as the most intelligent community in Europe 2012. The city provides free wireless Internet access to all its visitors.

Finnish heritage of the ice age in Rokua Geopark, history of thousands of years in the Kierikki Stone Age Centre and numerous Bird Watching centers are nearby. Pre and Post Congress tours to Arctic Circle, Santa Claus village and the hiking in Oulanka National Park will be offered by service providers.

Oulu information: http://www.visitoulu.fi/en/home/

How to get

There are good flight connections to Oulu from all over the world via Helsinki. Numerous only one hour flights per day between Oulu and Helsinki are operated by Finnair www.finnair.com and Norwegian

http://www.norwegian.com/en/. Several Finnair flights are also available as codeshare flights with several partners of Oneworld Alliance and Air France. Arctic Airlink connects Oulu with Luleå and Tromsø http://www.arcticairlink.fi/.

Oulu has frequent Pendolino and InterCity train connections with Helsinki and Tampere https://www.vr.fi/cs/vr/en/frontpage.

Traveling information: http://www.visitoulu.fi/en/traveling/







