

General Information



University of Stuttgart
Cluster of Excellence in
Simulation Technology

Date

26 – 28 March 2018

Venue

University of Stuttgart
Campus Vaihingen
Pfaffenwaldring 47
70569 Stuttgart (Germany)

General Chairs

Frank Allgöwer
Wolfgang Ehlers
Thomas Ertl
Rainer Helmig
Christian Rohde

Local Scientific Committee

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Marc-André Keip
Frank Leymann
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Miriam Mehl
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Meike Tilebein
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www.simtech2018.org



**2nd International
Conference on
Simulation Technology**

**26 – 28 March 2018
Stuttgart (Germany)**



SimTech 2018

2nd International Conference

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From 26 to 28 March 2018, the Simulation Technology research elite spotlight the City of Stuttgart for the 2nd International Conference on Simulation Technology (SimTech 2018).

The conference agenda covers many topics relevant to the field of simulation technology – such as advanced mechanics, molecular simulations, numerical mathematics, interactive visualization and many more.

By bringing together all these topics at SimTech 2018, we move towards our goal within the Stuttgart Cluster of Excellence in Simulation Technology: to develop simulation technology from isolated numerical approaches towards an integrative systems science.

Conference Scope

Topics

At the Stuttgart Cluster of Excellence in Simulation Technology over 200 scientists are currently conducting their manifold research in the field of simulation sciences. The Cluster's areas of research coincide with the main topics at SimTech 2018:

1. Multi-scale and Multi-field Simulations of Materials
2. High Performance Simulations across Computer Architectures
3. Dynamical Systems: Reduction, Optimisation and Control
4. Coupled Problems in Biomechanics and Systems Biology
5. Multi-phase and Multi-physics Modelling
6. Cyber Infrastructure and Beyond
7. Reflexion and Contextualisation

Integrated Systems Science

The above-mentioned topics bring together mathematicians with biochemists, engineers with chemists, computer scientists with sociologists, and physicists with philosophers. SimTech 2018 is a major platform for advancing exchange amongst researchers from different fields within the international community. In Keynote Lectures, leading scientists introduce current ideas from the world of simulation technology.



The site of SimTech 2018: University campus at Stuttgart Vaihingen.
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Programme and Speakers

Keynote Lectures

SimTech 2018 includes 14 Keynote Lectures by renowned international experts. Each of them will give an inspiring introduction to their field of simulation research. Here is a selection of speakers already confirmed:

- Omar Ghattas, University of Texas, Austin, USA
- Jan Hesthaven, Swiss Federal Institute of Technology, Lausanne, Switzerland
- Birgit Kopainsky, University of Bergen, Norway
- Ellen Kuhl, Stanford University, California, USA
- Michael Ortiz, California Institute of Technology, USA
- Ignacio Pagonabarraga, University of Barcelona, Spain
- Ortwin Renn, Institute for Advanced Sustainability Studies, Potsdam, Germany
- Horst Simon, Lawrence Berkeley National Laboratory, Berkeley, California, USA
- Jadran Vrabec, Paderborn University, Germany
- Barbara Wohlmuth, Technical University of Munich, Germany
- Anders Ynnerman, Linköping University, Sweden

Minisymposia and Poster Sessions

In addition to Keynote Lectures, there will be seven minisymposia, each with invited speakers and a Poster Track. The minisymposia are dedicated to the seven main conference topics. Also, there will be classical poster sessions and a competition for a Best Poster Award granted by the Scientific Committee.

For more details on programme and speakers please visit the conference website: www.simtech2018.org

Programme Overview

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|--------------------|---|
| 26 MAR 2018 | Opening, 4 Keynote Lectures, 3 Minisymposia, Poster Session, Get Together |
| 27 MAR 2018 | 4 Keynote Lectures, 4 Minisymposia, Poster Sessions, Conference Dinner |
| 28 MAR 2018 | 6 Keynote Lectures, Poster Session, Best Poster Award, Closing |

Registration and Submission



Venue of the conference dinner: The Mercedes-Benz Museum Stuttgart.
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Ways to Participate in SimTech 2018

You may attend as part of the audience, engage in current visions in the field of simulation technology and find inspiration for your own scientific work. Or, you may present your scientific work by submitting an abstract for a poster. Some of the posters will be selected for a short additional oral presentation in the minisymposia (Poster Track).

Submission of abstracts for posters (max. 1,000 char.) and registration is available via: www.simtech2018.org



Abstracts must clearly demonstrate relevance to one of the seven SimTech 2018 topics of interest. The Scientific Committee will evaluate submissions. Decisions about acceptance are based on relevance, originality, potential significance and clarity.

Registration Fees

Early Bird Registration:	150 EUR
Late Registration:	250 EUR

Important Dates and Deadlines

29 OCT 2017	Deadline Call for Abstracts
30 NOV 2017	Notification of Acceptance
17 JAN 2018	Early Bird Registration Deadline
14 FEB 2018	Late Registration Deadline
14 FEB 2018	Deadline Poster Submission