Clausthal-Göttingen International Workshop on Simulation Science

8 - 10 May 2019, Clausthal-Zellerfeld, Germany

Call for Papers

Digital transformation concerns the application of digital technology in all aspects of human society. Due to this development, simulation and modeling techniques have become a central activity in many disciplines including natural science, engineering, economy and social sciences.
Simulation-based analysis and engineering techniques are traditionally a research focus of Clausthal University of Technology and University of Göttingen, which is especially reflected in their common interdisciplinary research cluster “Simulation Science Center Clausthal-Göttingen”.
The second “Clausthal-Göttingen International Workshop on Simulation Science” aims to bring together researchers and practitioners from industry and academia to report on the latest advances in simulation science.

Topics of Interest

The workshop considers the broad area of modeling & simulation focusing on:
Simulation and optimization in networks:
Public & transportation networks, computer & sensor networks, queuing networks, Internet of Things (IoT) environments, simulation of uncertain optimization problems, simulation of complex stochastic systems
Simulation of materials :
Development and applications of computational techniques in material and process simulation, simulation at micro (atomistic), meso and macro (continuum) scales including scale bridging, diffusive, convective transport and chemical processes in materials, simulation of granular matter
Distributed simulations:
Technology enabler for distributed simulation (e.g., simulation support for vector and parallel computing architectures, grid-based systems and cloud-based systems), methods for distributed simulation (e.g., agent-based simulation, multi-level simulation, and simulation for big data analytics, fusion and mining), application examples (e.g., simulation-based quality assurance and high-energy physics)

Extended Abstract & Paper Submission

Authors are invited to submit extended abstracts (2 pages) via the submission system on the webpage. Accepted abstracts are scheduled at the workshop.

Deadline: December 17, 2018
Notification of Acceptance: February 25, 2019

All accepted abstracts are scheduled for presentation at the workshop. Authors of accepted abstracts are invited to submit full papers for the post-proceedings. Accepted post-proceedings will be published by Springer’s CCIS series. The deadline will be afterwards in July 2019.

Organization

Joint Organizing Committee:

- Nina Gunkelmann, TU Clausthal (Germany)

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- Gunther Brenner, TU Clausthal (Germany)
- Jens Grabowski, University of Göttingen (Germany)
- Thomas Hanschke, TU Clausthal (Germany)
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- Anita Schöbel, University of Göttingen (Germany)

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Finance Chair:
- Alexander Herzog, TU Clausthal (Germany)

www.simscience2019.tu-clausthal.de

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GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

SWZ Clausthal – Göttingen Simulation Science Center

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