

Invitation to the SWZ Mini Workshop „Simulation meets AI“ on August 15 + 16, 2024 – Call for Papers –

On August 15 and 16 of this year, the SWZ Mini Workshop 2024 will take place at the 3rd Physics Institute of the University of Göttingen under the title “Simulation meets AI”. We would like to cordially invite you to this event.

Simulation Science Center Clausthal-Göttingen

Simulation Science Center Clausthal-Göttingen (SWZ) is a joint scientific facility of Clausthal University of Technology and Georg-August University Göttingen. The aim of SWZ is to strengthen research in the field of simulation science at both universities and to create greater visibility for the subject area. For this purpose, SWZ, founded in 2013, offers various exchange formats and supports the implementation of joint research projects. In addition to the regular SWZ lecture series and the international “SimSciencE” conference (next event planned for spring 2025), the SWZ Mini Workshop is a low-threshold format for discussing current research questions and gaining insights into new research areas.

SWZ Mini Workshop „Simulation meets AI“

The workshop planned for mid-August is intended to bring the scientific fields of “simulation” and “modern AI” closer together. The workshop will present current results from both fields. The aim is in particular to transfer expertise between these fields. For this reason, the workshop is particularly aimed at young researchers and doctoral students, who - after presenting their own work and ideas - can then also discuss with experts from “the other field”. The mini-workshop therefore sees itself more as a discussion forum for generating new ideas than as a format for finalizing completed projects.

Keynotes

The following keynote speakers have been invited for the Mini Workshop:

- **Frau Prof. Dr. Anita Schöbel**, Director of the Fraunhofer Institute for Industrial Mathematics , Kaiserslautern
- **Herr Prof. Dr. Alexander Ecker**, Professorship for Data Science at Bernstein Center for Computational Neuroscience, University of Göttingen
- **Herr Prof. Dr.-Ing. Gunther Brenner**, Professorship for Fluid mechanics at TU Clausthal

Call for Papers

If you would like to participate in the Mini Workshop with a **presentation** or a **poster**, we would be pleased if you could submit an **abstract of approx. 1 page by June 15** (see contact details below). The aim of the Mini Workshop is deliberately to present and discuss research projects in progress; doctoral students in particular are cordially invited to present their research projects.

Schedule

Thursday, August 15, 2024

9:00	Get together at 3rd Physics Institute of the University of Göttingen
9:30	Welcome address
9:40	Keynote & Session 1
11:10	Coffee break
11:30	Session 1 – Part 2

12:30	Lunch at MPI
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14:00	Keynote & Session 2
15:30	Coffee break
15:50	Session 2 – Part 2
16:30	Poster session and strategy discussion for SWZ

19:00	Group dinner, planned for the Bullerjahn restaurant in Göttingen
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Friday, August 16, 2024

9:00	Get together at 3rd Physics Institute of the University of Göttingen
9:20	Keynote & Session 3
11:10	Coffee break
11:30	Session 3 – Part 2
12:10	Summary and conclusion of the workshop

12:30	Lunch at MPI
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Lunch and dinner have to be paid for by the participants themselves, but there is no conference fee.

Organizing Committee

- **Prof. Dr.-Ing. Marcus Baum**, Institute of Computer Science, Georg-August University Göttingen
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- **Jun.-Prof. Dr. Nina Merkert**, SWZ, Clausthal University of Technology
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- **Dr. Robert Mettin**, 3rd Physics Institute, Georg-August University Göttingen
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- **Prof. Dr.-Ing. Andreas Reinhardt**, Institute for Informatics, Clausthal University of Technology
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- **Daniel Thürmer, M.Sc.**, SWZ, Clausthal University of Technology
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- **Prof. Dr. Florentin Wörgötter**, 3rd Physics Institute, Georg-August University Göttingen
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Contact for questions and abstract submission

Both the SWZ office and the local workshop organization in Göttingen will be happy to answer any questions and to submit abstracts:

Lokale Organisation

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Geschäftsstelle SWZ

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We look forward to receiving your submissions and welcoming you to Göttingen in August!