GOR-AG: Praxis der Mathematischen Optimierung
Dr. Jens Schulz

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Herewith, we invite you to the 110th meeting of the GOR working group "Practice of Mathematical Optimization". This meeting is planned to be held in person with the topic

High Performance Computing

The workshop takes place in the physics center Bad Honnef (DPG – Deutsche Physikalische Gesellschaft) **Thursday to Friday, March 12 & 13, 2026**.
The working language will be English to be inclusive for a non-German speaking audience.

Note that the participation in a GOR-AG-Workshop for non-members is subject to a registration fee, unless you are a speaker or a host. We strongly advise you to book your stay and travel acknowledging that cancellation of the on-site event may occur on short notice, and the organizers will waive the registration fee but will not refund any other cost.

Participation in the workshop is free for GOR members and 100 Euro for non-GOR members. Bachelor and master students can participate at zero charge for GOR student members and 50 Euro for non-GOR student members.

For accommodation and food/drinks, a service charge needs to be paid at physics center. Please, enter your selected stay during registration:

- Thursday to Friday: 190 Euro

Staying from Wednesday to Thursday is currently subject to availability.
Please, register via www.redseat.de/pmo110

The latest information on the meeting is available on the homepage of the GOR (http://www.gor-ev.de/arbeitsgruppen/praxis-der-mathematischen-optimierung/real-world-optimization).

Yours sincerely,

Jens Schulz, Julia Kallrath, Josef Kallrath   **Thorsten Koch**

   (GOR AG)   (Zuse Institut Berlin)

High Performance Computing

Specific aims

This workshop aims to bring together researchers, practitioners, and students from the fields of applied mathematics, computer science, engineering, and related disciplines to explore the intersection of **advanced optimization techniques** and **cutting-edge computational methods on modern hardware infrastructure**.

Key Topics Include:
- Large-scale optimization algorithms
- Parallel and distributed computing
- Real-world applications in science, engineering, and industry
- Recent developments in HPC architectures and their use in optimization
- Advances in GPU-accelerated computing for optimization
- Quantum computing approaches to combinatorial and continuous optimization
- Software tools and frameworks for optimization on HPC systems

We especially welcome presentations that deal with the practical aspects of modeling and solving related problems on modern hardware. If you have conducted a study to compare different computational methods, at best on real world mathematical optimization problems as they occur in practice and want to share your insights, this is the right forum.

Application areas of high interest range from energy, transportation, logistics, supply chain, chemical engineering, e-commerce and finance. We similarly value contributions from other fields.

The core of this 2-day workshop will consist of an attractive schedule of talks covering a broad range of mathematical techniques, theoretical considerations and real world applications around global optimization. As usual, we will reserve plenty of time for informal exchange and networking.

In talks of 15+5min, 25+5min or 40+5min duration, experts from practice and research will address problems and solutions.

If you would like to contribute a talk, please feel free to contact the organizer.

Jens Schulz (schulz-gor 'at' gmx.net)

The venue & accommodation

Venue

Deutsche Physikalische Gesellschaft (DPG)
https://www.dpg-physik.de/ueber-uns/physikzentrum-bad-honnef/kontakt-anfahrt
Physikzentrum Bad Honnef
Hauptstraße 5
53604 Bad Honnef

How to get there?
Bad Honnef has good train connection from Cologne, and a 10 minutes walk from the station to the venue.

Accommodation

The physics center offers accommodation for up to 50 participants. You can choose to stay in a hotel nearby. Please, select the appropriate option during registration.

The capacity for overnight stays from Wednesday to Thursday still needs to be determined. Stay tuned. Nearby hotels are also a good option.

Pre-conference get-together

For arrivals on Wednesday, we will arrange a table at a nearby restaurant.
Please, inform the organizers in case you want to attend. Everyone pays their bill themselves.

Conference dinner

The conference dinner will take place in physics center on Thursday evening 7pm in the nice wine cellar of Physikzentrum Bad Honnef.

Excursion

To be announced. In past years, we did a walking tour to Konrad Adenauer House.

Vorstand
Prof. Dr. Jutta Geldermann (Vorsitz)
Prof. Dr. Stefan Ruzika (Arbeitsgruppen)
Prof Dr. Dominik Möst (Tagungen)
Hanno Schülldorf (Finanzen)

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