GOR Gesellschaft für Operations Research e.V.

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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:

- Wednesday to Friday: 253 Euro
- Wednesday to Thursday: 164 Euro
- Thursday to Friday: 180 Euro
- Thursday only (no overnight stay): 91 Euro

Registration will open in December 2025.

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** (GOR AG)

**Thorsten Koch** (Zuse Institut Berlin)

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# 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)