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**GOR-Arbeitsgruppe: Praxis der  
Mathematischen Optimierung**

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Herewith we would like to invite you to the 100<sup>th</sup> meeting of the GOR working group "Real World Mathematical Optimization" at Schloß Spindlhof ([www.schloss-spindlhof.de](http://www.schloss-spindlhof.de)) in Regensstauf, Germany. This meeting is sponsored by GAMS GmbH (Cologne, Germany) and is being held as a symposium with the topic

## Mathematical Optimization in the Real World

The workshop takes place on April 12<sup>th</sup> and 13<sup>th</sup> in 2018. The event will take place in English language (abstracts and presentations are also accepted in English). We appreciate your participation in an informal get-together at April 11, 2018.

Please 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.

Please register yourself online using <https://www.redseat.de/pmo100/> as soon as possible, but ideally not later than Apr 01<sup>st</sup>, 2018. The latest information on available on the homepage of the GOR (<http://www.gor-ev.de/arbeitsgruppen/praxis-der-mathematischen-optimierung>).

Yours sincerely,

Josef Kallrath

Jens Schulz

Julia Kallrath

(GOR AG)

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**Vorstand:**

Prof. Dr. Alf Kimms (Vorsitz)  
Dr. Ulrich Dorndorf (Finanzen)  
Prof. Dr. Alf Kimms (Tagungen)  
Prof. Dr. Anita Schöbel (Arbeitsgruppen)

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## Mathematical Optimization in the Real World

Zur 100. Arbeitsgruppensitzung haben wir uns in Verbindung mit Firma GAMS GmbH (Köln), die die Veranstaltung finanziell und ideell unterstützt, etwas Besonderes ausgedacht. Die Veranstaltung wird am 12. und 13. April 2018 im Schloß Spindlhof in Regenstauf stattfinden; es wäre schön, wenn auch schon recht viele am Vorabend, also am 11. April 2018 teilnehmen könnten. Schloß Spindlhof ([www.schloss-spindlhof.de](http://www.schloss-spindlhof.de)), ein neugotisches Schloss in Süddeutschland, bietet ein angenehmes Ambiente für diese Jubiläumsveranstaltung. Thematisch haben wir schon einige attraktive Referenten gewinnen können. Erwünscht sind Vorträge, die das Gebiet Mathematische Optimierung in einen historischen und anwendungsorientierten Zusammenhang stellen, zum anderem und hauptsächlich aber solche mit einem visionären Ausblick.

The working group has been founded in 1968 by Prof. Dr. Peter Stahlknecht. The founder will hold the opening lecture of this event.

Since the early days in the 1950ties, Operations Research (OR) and especially Mathematical Optimisation has been an important differentiator in various industries and society. Because companies offer similar products, have comparable technology and compete on a global scale, high performance business processes are among the last differentiators. As UPS mentioned: "In God we trust, everything else we measure and improve", underpinning the importance of Operation Research and mathematical optimization as an enabler for creating that competitive edge. In these times of Digitization, Industry 4.0, and BigData great and new opportunities for Mathematical Optimization and Operations Research are at the horizon. It gives guidance to management on where to invest and where to scale down, making the operation more agile.

This two-days event will attempt to combine historical elements of the working group and its focus with a vision for the future as well as to provide an overview of the current state of the art of mathematical optimization. In talks, each approx. 15+5, 25+5, or 40+5 minutes experts from practice, research institutions or software companies, will present selected problems and the corresponding solutions.

Please contact:

Jens Schulz ([jens.je.schulz@deutschebahn.com](mailto:jens.je.schulz@deutschebahn.com)), Julia Kallrath ([julia.kallrath@h-da.de](mailto:julia.kallrath@h-da.de)) or Josef Kallrath ([josef.kallrath@web.de](mailto:josef.kallrath@web.de)) if you are interested in presenting.

Presentations from the following speakers have been confirmed or are in the pipe:

Lucia Bäuml (Friedrich-Alexander-Universität Erlangen-Nürnberg & Continental Automotive GmbH, Erlangen & Regensburg)  
*Automotive Life Cycle Assessment*

Dr. Oliver Bastert (FICO, Munich, Germany) – **to be confirmed**  
*tba* – **to be confirmed**

Dr. Michael Bussieck (GAMS GmbH, Cologne)  
*GAMS - Striving for Innovation and Compatibility* – **to be confirmed**

Prof. Dr. Gustav Feichtinger (Technical University of Vienna, Vienna, Austria)  
*Optimizing Terror Queues*

Prof. Dr. Knut Haase (University of Hamburg, Hamburg, Germany)  
*A Pilgrim Scheduling Approach to Increase Public Safety During Hajj*

Dr. Susanne Heipcke (FICO, Munich, Germany)  
*Modelling for Mathematical Optimization: Historical Notes and Current Trends*

Prof. Dr. Siegfried Jetzke (Ostfalia Hochschule für Angewandte Wissenschaften, Salzgitter)  
*Gibt es optimale Lösungen in der Logistik? Does Logistics allow for optimal solutions?*

Prof. Dr. Josef Kallrath (GOR Working Group "Real World Optimization", Germany)  
*The Pleasure to Solve Real World Optimization Problems*

Prof. Dr. Thorsten Koch (Zuse Institute Berlin, Berlin, Germany)  
*20 years Mathematical Optimization in the Real World or how to Survive Industry Projects as a Mathematician*

Prof. Dr. Karl-Heinz Küfer (Fraunhofer-Institut für Techno- und Wirtschaftsmathematik ITWM, Kaiserslautern)  
*Optimizing yields in gemstone cutting - mathematics as a driver of process innovation*

Prof. Dr. Anita Schöbel (University Göttingen, Göttingen, Germany)  
*Towards Integrated Planning in Public Transportation*

Andre Schnabel/Justine Broihan (Hannover University, Hannover, Germany)  
*tba* – **to be confirmed**

Dr. Anna Schreieck (BASF SE, Ludwigshafen, Germany)  
*Operations Research at BASF – New Opportunities in the Time of Digitization*

Andreas Söhlke (Lufthansa Systems GmbH & Co. KG, Berlin, Germany)  
*From Planning to Real Time: The Challenges of applying Optimization in Airline Operations*

Matthias Spreitzenbarth (Spreitzenbarth Consultants, Ludwigshafen, Germany)  
*The Happy Marriage of Digitization and Mathematical Optimization*

Prof. Dr. Peter Stahlknecht (Hannover, Germany)  
*Von den Anwendungen zur Arbeitsgruppe – Erinnerungen des Gründers*

Robert Schwarz (LITIC Software, Chiang Mai, Thailand)  
*LITIC: From a model to a graphical end-user application*

Dr. Ingo Steinzen (Oronomy, Paderborn, Germany) – **to be confirmed**  
*tba* – **to be confirmed**

Dr. Roland Wunderling (IBM, Vienna, Austria) – **to be confirmed**  
*tba* – **to be confirmed**

## **Location**

Schloss Spindlhof  
Spindlhofstraße 23  
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**1h10m away from Munich International airport.**

## **Excursion:**

On Thursday afternoon, an excursion will be arranged for up to 60 participants (first registered, first served). The conference dinner will take place in "Schloß Spindlhof", most likely with some local folklore-music.