



22<sup>nd</sup> International conference “**Mathematical Optimization Theory and Operations Research**” (MOTOR 2023) <http://motor2023.uran.ru> will be held on **July 2-8, 2023**, in the Ekaterinburg city, the capital of Urals, Russia, near the borderline between Europe and Asia.

The conference brings together a wide research community in the fields of mathematical programming and global optimization, discrete optimization, complexity theory and combinatorial algorithms, optimal control and games, and their applications in relevant practical problems of operations research, mathematical economy, and data analysis.

**Previous events**

Conference name	Dates	Venue	Proceedings
<a href="#">MOTOR 2019</a>	Jul. 8-12, 2019	Ekaterinburg, Russia	LNCS <a href="#">Vol.11548</a> CCIS <a href="#">Vol.1090</a>
<a href="#">MOTOR 2020</a>	Jul. 6-10, 2020	Novosibirsk, Russia	LNCS <a href="#">Vol.12095</a> CCIS <a href="#">Vol.1275</a>
<a href="#">MOTOR 2021</a>	Jul. 5-10, 2021	Irkutsk-Baikal, Russia	LNCS <a href="#">Vol.12755</a> CCIS <a href="#">Vol.1476</a>
<a href="#">MOTOR 2022</a>	Jul. 2-6, 2022	Petrozavodsk, Russia	LNCS <a href="#">Vol.13367</a> CCIS <a href="#">Vol.1661</a>

MOTOR conference series is a successor of the following well-known International and All-Russian conferences, which were held in Ural, Siberia, and the Far East for a long time:

- Baikal International Triennial School Seminar on Methods of Optimization and Their Applications, BITSS MOPT - established in 1969 by academician N.N. Moiseev, the 17th event <http://isem.irk.ru/conferences/mopt2017/en/index.html> was organized in 2017, in Buryatia;
- Mathematical Programming and Applications, MPA – established 1972 by academician I.I. Eremin, the 15th conference <http://mpa.imm.uran.ru/96/en> was held in 2015, near Ekaterinburg;
- Discrete Optimization and Operations Research, DOOR – since 1996, was organized 9 times, the last one <http://www.math.nsc.ru/conference/door/2016/> was held in 2016, in Vladivostok;
- Optimization Problems and their Applications, OPTA is organized regularly in Omsk, since 1997, the 7th event in this series was held in 2018 <http://opta18.oscsbras.ru/en/>

Original research papers in all areas of optimization and its applications are solicited. Along with theoretical results, submissions reporting on numerical algorithm benchmarking or solution techniques for real-world operations research problems are welcomed as well. Experimental and applied papers are expected to show convincingly the usefulness and comparative efficiency of the algorithms discussed in a practical setting.

**Main conference topics** include, but not limited to

- mathematical programming
- ill-posed and improper optimization problems
- global optimization
- integer programming and combinatorial optimization
- computational complexity, approximation algorithms schemes, bounds, heuristics and metaheuristics
- optimal control and game theory
- optimization and approximation
- optimization in machine learning and data analysis
- applications in operations research: scheduling, routing, facility location, packing and cutting, manufacturing systems, etc.

### **Important dates**

- abstract submission due: January 15, 2023
- full paper submission due: February 5, 2023
- notification of acceptance: March 15, 2023
- camera ready version: April 2, 2023
- conference dates: July 2-8, 2023

### **Paper submission**

To participate in the conference, all the authors are invited to register (if not registered so far) in the Springer EquinOCS conference management system and submit an abstract of their presentation:

<https://equinocs.springernature.com/service/MOTOR2023>

In addition, the authors can submit the corresponding paper for possible publication in the conference proceeding. Each paper should report on novel results that are not published or submitted simultaneously to any journal or another conference with refereed proceedings. Papers should be prepared in the Springer LNCS Format, can have 12-15 pages, and submitted in PDF. Please, follow the official Springer authors guidelines <https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines>

**Abstract / paper submission is open now!**

### **Proceedings and Special Issues**

The conference proceedings are intended to be published by Springer-Nature in the **Lecture Notes in Computer Science (LNCS)** and **Communications in Computer and Information Science (CCIS)** series.

After the conference, it is planned to organize special issues of two-three high-level journals to publish substantially extended versions of selected papers. The list of these journals will be announced soon, at the conference site <http://motor2023.uran.ru>

### **Contacts**

Should you have any concerns, please feel free to contact us at [motor2023.chairs@gmail.com](mailto:motor2023.chairs@gmail.com)