

THIRD ANNOUNCEMENT

The 7th International School-Seminar

Nonlinear Analysis and Extremal Problems (NLA-2022)

Irkutsk, Russia, July 15–22, 2022

The goal of the school-seminar is to share recent results and techniques in various areas of modern nonlinear analysis, expose young researchers to some fast-paced topics in the field, and allow them to present their own research. To that end, advanced lecture courses of invited speakers as well as short talks of other participants are planned.

Main topics of the conference include:

- Nonlinear analysis and its applications
- Partial differential equations
- Dynamical systems
- Calculus of variations and mathematical control theory
- Optimization

NLA-2022 is organized in a hybrid format, including both in-person and online talks. The conference languages are **English** and **Russian**.

KEYNOTE SPEAKERS

Lecture courses (each course is about 2-3 lectures) will be given by

- **Vladimir Bogachev** (Moscow State University, Russia)
Geometry and topology of the spaces of measures
- **Alexander Kruger** (Federation University Australia, Australia)
Variational analysis and optimization theory: selected topics
- **Lev Lokutsievskiy** (Steklov Mathematical Institute of RAS, Russia)
Introduction to sub-Riemannian and sub-Finsler geometries from the optimal control viewpoint
- **Georgii Magaril-II'yaev** (Moscow State University, Russia)
Controllability and optimality
- **Boris Mordukhovich** (Wayne State University, USA)
Optimal control of sweeping processes
- **Stanislav Shaposhnikov** (Moscow State University, Russia)
Nonlinear Fokker-Planck-Kolmogorov equations

REGISTRATION

Abstract (1-2 pages) should be prepared in LaTeX with the following template <https://conference.icc.ru/event/5/abstracts/> and submitted by **May 31, 2022**, on the conference website <https://conference.icc.ru/e/nla2022> or via e-mail nla2022@icc.ru

Regular registration fee: 3000 RUB
Registration fee for students and PhD students: free

Participation without a talk and a publication is free, but requires sending an application to nla2022@icc.ru before **July 10, 2022**.

PROCEEDINGS

Extended versions of selected talks will be recommended for publication in special issues of

- Journal of Mathematical Sciences (Scopus)
- The Bulletin of Irkutsk State University (Scopus, Web of Science ESCI)

CONTACT INFORMATION

Matrosov Institute for System Dynamics and Control Theory of SB RAS

134 Lermontov St,
664033 Irkutsk, RUSSIA

E-mail: nla2022@icc.ru
Web page: <https://conference.icc.ru/e/nla2022>

VENUE AND SOCIAL PROGRAM

The conference will take place at Matrosov Institute for System Dynamics and Control Theory of SB RAS, 134 Lermontov St, Irkutsk, Russia. The Conference participants are welcome to take part in a one-day trip to Lake Baikal. The trip assumes an extra fee to be announced later.