



Second Call for Papers

WODCA 2025—Workshop on Optimization, Dynamics, and Convex Analysis

on the occasion of the 65th anniversary of Prof. Alexander Plakhov

June 11-14, 2025, Aveiro, Portugal

Website: <https://sites.google.com/view/wodca2025/>

Organized by a team of professors and researchers from the Department of Mathematics at the University of Aveiro, with the scientific support of CIDMA—Center for Research & Development in Mathematics and Applications and the University of Algarve, this workshop celebrates the 65th anniversary of Prof. Alexander Plakhov.

Prof. Alexander Plakhov has devoted more than 25 years of scientific work to the University of Aveiro. His remarkable contributions, published in over 100 papers and books, are deeply intertwined with many of the workshop's themes. An associate professor with habilitation at the Department of Mathematics, Prof. Plakhov has been coordinating CIDMA's research group on Optimization, Graph Theory, and Combinatorics since 2018.

Aims and Scope: The workshop aims to bring together researchers in the fields of Billiard Theory, Dynamic Systems, Optimal Mass Transportation, Control, and Optimization.

Topics: Billiards, Optimal mass transport, the Kakeya needle problem, Convex Geometry, Calculus of Variations, Applications of Mathematics in Mechanics, Dynamical Systems, Optimal Control, Mathematical Modelling, Mathematical Programming, Convex analysis, Convex Optimization, Integer Programming, among other.

Confirmed Invited Speakers: *Leonid Bunimovich*, Georgia Institute of Technology, USA; *Sergei Tabachnikov*, the Pennsylvania State University, USA; *Giuseppe Buttazzo*, University of Pisa, Italy; *Robert McCann*, University of Toronto, Canada; *Mark Levi*, Penn State, USA; *Konstantin Khanin*, University of Toronto, Canada; *Vera Roshchina*, UNSW, Sydney, Australia; *Michael Bialy*, Tel Aviv University, Israel; *Sergey Kryzhevich*, Gdansk University of Technology, Poland; *Lev Lokutsievskiy*, Lomonosov Moscow State University, Russia; *Gennady Mishuris*, Aberystwyth University, UK; *Pavel Zatitskii*, University of Cincinnati, USA; *Alexey Glutsyuk*, Unité de Mathématiques Pures et Appliquées, Lyon, France; *Delfim F. M. Torres*, University of Aveiro, Portugal.

Registration:

Regular registration fee:

Early Bird (till May 5, 2025) – 300 Euros

Late Bird (till May 25, 2025) – 360 Euros

Student registration fee:

Early Bird (till May 5, 2025) – 150 Euros

Late Bird (till May 25, 2025) – 180 Euros

Accompanying person: 80 Euros

Registration includes participation in all sessions of the Workshop; a kit of materials, coffee breaks, and a social program (including the Conference Dinner).

Student registration includes participation in all sessions of the Workshop; a kit of materials, coffee breaks, and a social program (except the Conference Dinner).

Presentations. The participants are invited to submit the abstract of their talk which will be accepted for presentation in the form of either an oral talk or a poster presentation.

Submission Guidelines:

- Format: Abstracts should not exceed 1500 characters.
- Restrictions: Each participant can submit only one research abstract for evaluation.
- The same abstract cannot be submitted by different delegates.
- Submission: Abstracts should be submitted using the following link <https://unave.sci-meet.org/register/WODCA2025> (login thereafter)

Special Issue. A Special Issue of the Journal of Convex Analysis (JCA) will be dedicated to Alexander Plakhov's 65th anniversary. The Workshop participants can submit their papers to this issue. Please follow the instructions on the conference website and on the JCA website: <https://www.heldermann.de/JCA/jcacover.htm>.

Chairs: Tatiana Tchemisova, Delfim F.M. Torres, and João Pedro Cruz.

Organizing Committee: Enide Andrade, Paula Carvalho, Sofia Pinheiro, Paula Rama, Paulo Varandas (Universidade de Aveiro), and Daniel Graça (Universidade de Algarve)

Important dates:

Abstract submission: **April 20, 2025**

Information about acceptance: **April 27, 2025**

Early bird registration: **May 5, 2025**

Late bird registration: **May 25, 2025**

Workshop: **June 11-14, 2025**

Submission to the Special Issue of the Journal of Convex Analysis: **June 30, 2025**