



WODCA 2025

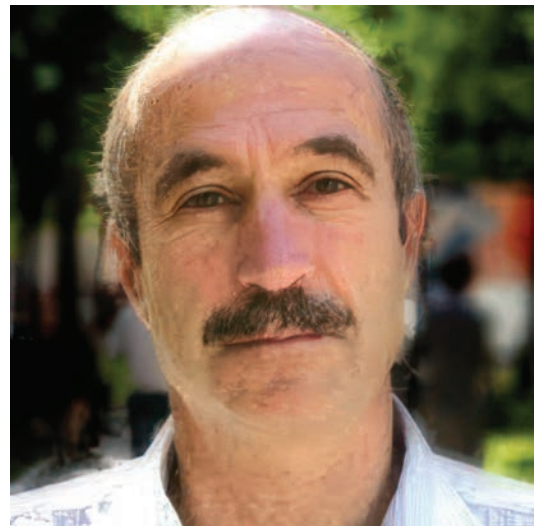
June 11–14, 2025

by **Tatiana Tchemisova***, **Delfim F.M. Torres***, and **João Pedro Cruz***

The international conference Workshop on Optimization, Dynamics, and Convex Analysis (WODCA 2025) took place from June 11 to 14, 2025, at the University of Aveiro, Portugal.

The event was jointly organized by members of the Local Organizing Committee from the University of Aveiro, the University of Algarve, and the Center for Research and Development in Mathematics and Applications (CIDMA), in honour of Professor Alexander Plakhov, marking his 65th birthday.

Professor Plakhov, an associate professor with habilitation at the University of Aveiro, has played a pivotal role in the academic life of the institution for over 25 years. Since 2018, he has led the CIDMA research group on Optimization, Graph Theory, and Combinatorics. His prolific contributions—highly aligned with the themes of the Workshop—include over 100 publications of inter-



Alexander Plakhov

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Local Organizing Committee



Alexander Plakhov and Keynote and Invited speakers

national relevance, encompassing both scholarly articles and monographs.

WODCA 2025 aimed to gather leading researchers in Billiards Theory, Dynamical Systems, Optimal Mass Transfer, and Optimization, offering a platform for rich academic exchange and collaboration.

The scientific program featured a wide range of topics, such as Billiards, Optimal Mass Transport, the Kakeya Needle Problem, Convex Geometry, Calculus of Variations, Mathematical Applications in Mechanics, Dynamical Systems, Optimal Control, Mathematical Modelling, Mathematical Programming, Convex Analysis, Convex

Optimization, Integer Programming, among others.

The Workshop attracted over eighty participants from twenty-two countries. The program consisted of eighteen keynote and invited lectures, fifteen contributed sessions, and a poster session. The overall success of the event owes much to the dedication and professionalism of the International Scientific Committee, to whom we extend our sincere appreciation.

The workshop featured plenary lectures by eighteen distinguished keynote and invited speakers, namely: Sergei Tabachnikov, Pennsylvania State University, USA; Leonid Bunimovich, Georgia Institute of Technology, USA; Michael Bialy, Tel Aviv University, Israel; Giuseppe Buttazzo, University of Pisa, Italy; Alexey Glutsyuk, HSE University, Russia & CNRS, UMPA, ENS de Lyon, France; Konstantin Khanin, Beijing Institute of Mathematical Sciences and Applications, China; Sergey Kryzhevich, Gdansk University of Technology, Poland; Mark Levi, Pennsylvania State University, USA; Lev Lokutsievskiy, Lomonosov Moscow State University, Russia; Robert McCann, University of Toronto, Canada; Gennady Mishuris, Aberystwyth University, UK; Vera Roshchina, UNSW, Sydney, Australia; Vladimir Protasov, University of L'Aquila, Italy; Delfim F. M. Torres, University of Aveiro, Portugal; Pavel Zatitskii, University of Cincinnati, USA; Arseniy Akopyan, USA; and Alexey Davydov, Vladimir State University and Moscow State University, Russia.

The success of WODCA 2025 was made possible by the concerted efforts of the International Scientific Committee, the local Organizing Committee from the University of Aveiro and the University of Algarve, and the Center for Research and Development in Mathematics and Applications (CIDMA).

The Department of Mathematics of the University of Aveiro and the Universities of Aveiro and Algarve provided the Workshop with their institutional support.

The organizers also acknowledge the valuable support of CIM—International Center for Mathematics, and the dissemination support from APDIO—the Portuguese Association of Operational Research.

Additional information is available at: <https://sites.google.com/view/wodca2025/>