



Name	Oleksii Kartashov
Position, Department/Faculty	Acting Head of the Department of Mathematical Modelling and Artificial Intelligence department
Academic Degree, Academic Title	Candidate of Physical and Mathematical Sciences (PhD), Associate Professor
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Scopus Author ID:	57204835505
Web of Science ResearcherID:	NZO-3956-2025
ORCID iD:	0000-0002-6282-553X
Google Scholar:	https://scholar.google.com.ua/citations?user=Jvu6oN8AAAAJ&hl
ResearchGate:	https://www.researchgate.net/profile/Oleksii-Kartashov?ev=hdr_xprf

EDUCATION:

Basic education (university, major, year of graduation):

Kharkiv Aviation Institute named after K.E. Zhukovsky (now - National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine)

Applied Mathematics,
01/09/1979 – 28/02/1985

Postgraduate/Doctoral studies:

Postgraduate study in Institute for Problems in Machinery of the National Academy of Sciences of Ukraine [04/04/1988-07/05/1991],

Doctoral study in Institute for Problems in Machinery of the National Academy of Sciences of Ukraine [01/09/1998-01/09/2001],

Candidate of Physical and Mathematical Sciences (PhD),
Institute for Problems in Machinery of the National Academy of Sciences of Ukraine [15/09/1995],
Associate Professor of the Department of Computer Science,
National Aerospace University "Kharkiv Aviation Institute" of Ukraine [22/12/2006]

Additional training, certification programs:

"A Big Course on Artificial Intelligence in Education", Public organization "Progressilny" [26/05/2025 – 09/06/2025]

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Associate Professor

01/03/2017 – now

Mathematical Modelling and Artificial Intelligence Department
National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine

Head of the Department

01/10/2012 – 28/02/2017

Computer Science Department
National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine

Associate Professor

01/09/2001 – 30/09/2012

Computer Science Department
National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine

Acting Senior Researcher

03/08/1998 - 31/08/1998

Mathematical Modeling and Optimal Design Department
Institute for Problems in Machinery of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine

Junior Researcher

01/10/1996 - 02/08/1998

Mathematical Modeling and Optimal Design Department
Institute for Problems in Machinery of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine

Software Engineer

01/11/1991 - 30/09/1996

Mathematical Modeling and Optimal Design Department
Institute for Problems in Machinery of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine

Engineer

03/06/1991 - 31/10/1991

Mathematical Modeling and Optimal Design Department
Institute for Problems in Machinery of the National Academy of Sciences of Ukraine, Kharkiv, Ukraine

Teaching Experience

Associate Professor

01/09/1995 – 30/06/1996

Applied Mathematics Department
Kharkiv Polytechnical Institute, Kharkiv, Ukraine

Associate Professor

01/09/2001 – now

Mathematical Modelling and Artificial Intelligence Department
National Aerospace University "Kharkiv Aviation Institute", Kharkiv, Ukraine

RESEARCH ACTIVITIES:

Main Research Areas:

Operational Researches: Cutting and Packing problems, optimal covering problems;

Computational Geometry: Delone triangulation, Phi-function

Number of Publications (Scopus, WoS, others):

Author of 44 publication, 32 of which indexed in Google Scholar database 19 of which indexed in Scopus database. 11 of which indexed in WoS database. Hirsch index – 8 (Scopus).

Participation in Scientific Conferences:

Participated in 12 international conferences over the last 10 years.



TEACHING ACTIVITIES:

Courses Taught:

Programming, Algorithms and Data Structures, Discrete Mathematics, Graph Theory, Optimization Methods and Operational Researches, Computational Geometry.

Methodological Materials, Textbooks:

Co-author of 7 study guides.

GRANTS AND PROJECTS:

Participation in International and National Projects:

Principal Investigator, "Mathematical modeling of combinatorial configurations and methods for their optimization taking into account spatial and physical-metric parameters" (State registration number 0119U101134), Ministry of Education and Science of Ukraine, 2019-2021.

Principal Investigator, "Technologies, tools for mathematical modeling, optimization and system analysis of support tasks in space monitoring systems" (State registration number 0122U200468), Ministry of Education and Science of Ukraine, 2022-2024.

Grants, Scholarships, Academic Mobility Programs:

Scholarship at the Dresden University of Technology [12/2011-01/2012]

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

text

Distinctions, Awards, Prizes:

text

INTERNATIONAL ACTIVITIES:

Internships:

Internship at the Dresden University of Technology [12/2011-01/2012]

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Yakovlev, S., Kartashov, O., Mumrienko, A. Formalization and solution of the maximum area coverage problem using library shapely for territory monitoring // Radioelectronic and Computer Systems, 2022, 2022(2), pp. 35–48; DOI:10.32620/reks.2022.2.03, Q3, (Scopus, WoS)
2. Sergiy Yakovlev, Oleksii Kartashov and Dmytro Podzheha Mathematical Models and Nonlinear Optimization in Continuous Maximum Coverage Location Problem // Computation. 2022, 10(7), 119; <https://doi.org/10.3390/computation10070119>, Q2, (Scopus, WoS).



In the top left corner, there are decorative geometric shapes consisting of a dark blue rectangle and a light blue triangle pointing towards the center.

Links to Citation Database Profiles:

<https://www.scopus.com/authid/detail.uri?authorId=57204835505>

<https://www.webofscience.com/wos/author/record/NZO-3956-2025>

https://scholar.google.com/scholar?hl=ru&as_sdt=0%2C5&q=oleksii+kartashov&oq=oleksii+kar

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian – Native

Russian – Second Native

English

IT Skills:

Python, C++, C#, Delphy

Social and Community Activities:

Member of the Organizational Committee, Chairman of the Jury, All-Ukrainian Student Olympiad on Informatics [2014 – 2019].

Member of the jury, the regional level of All-Ukrainian Schoolchildren Olympiad on Informatics of the Kharkiv region of the "Small Academy of Sciences of Ukraine" [2014 – 2019].