



Name	Alina Artomova
Position, Department/Faculty	Associate Professor of the Department of Information Technologies of Design
Academic Degree, Academic Title	PhD in Engineering Associate Professor
Email:	a.artomova@khai.edu
Scopus Author ID:	ID: 59161654300
Web of Science ResearcherID:	ID: GRI-9864-2022
ORCID iD:	ID: 0000-0002-6761-2066
Google Scholar:	ID: tzsYkfIAAAAJ
ResearchGate:	https://www.researchgate.net/profile/Alina-Artomova?ev=hdr_xprf

EDUCATION:

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

Kharkiv National University of Radioelectronics – Kharkiv, Ukraine

Master's degree in the educational program "Laser and Optoelectronic Engineering [2002 – 2003]

Kharkiv National University of Radioelectronics – Kharkiv, Ukraine

Bachelor's degree in the educational program "Laser and Optoelectronic Engineering [1998 – 2002]

Postgraduate/Doctoral studies:

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine

PhD student [2004 – 2007]

Additional training, certification programs:

Kharkiv National Pedagogical University named after H.S. Skovoroda – Kharkiv, Ukraine

Master's degree in the educational program "Mathematics in Educational Institutions" [2021 – 2022]

Certificate of participation has demonstrated exceptional engagement and active participation in the Aviation Talks Boeing 2025 seminar series.

Certificate No. VKSHIO-0094, issued on 23.06.2025. Education Service Provider: NGO "Progressive" (26.05–09.06.2025). Comprehensive course on Artificial Intelligence in Education. Credits: 1.5 ECTS (45 hours). https://drive.google.com/drive/folders/1ubkUVhh-lkI9oi7p_VTxcaH34c6mQCfU?usp=sharing

Certificate No. AIAFEBGC1-1131, issued on 18.05.2025. Course: "AI Academy for Educators by Google". Training period: 07.04.2025–18.05.2025. Credits: 1 ECTS (30 hours). <https://drive.google.com/file/d/1oqvys74S-WaJfLfgqEZkW-ciAVS03833/view>

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine

Associate Professor of the Department of Information Technologies of Design [2023 – Current]

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine



Associate Professor of the Department of Economics, Marketing and International Economic Relations [2013 – 2023]

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine
Senior Lecturer of the Department of Economics and Marketing [2011 – 2013]

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine
Assistant Lecturer of the Department of Economics and Marketing [2008 – 2011]

PJSC "Aviakontrol" – Kharkiv, Ukraine
Quality Control Engineer and Head of the Certification Group [2003 – 2005]

Teaching Experience:

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine
Associate Professor of the Department of Information Technologies of Design [2023 – Current]

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine
Associate Professor of the Department of Economics, Marketing and International Economic Relations [2013 – 2023]

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine
Senior Lecturer of the Department of Economics and Marketing [2011 – 2013]

National Aerospace University "Kharkiv Aviation Institute" – Kharkiv, Ukraine
Assistant Lecturer of the Department of Economics and Marketing [2008 – 2011]

Experience in International or National Projects:

Applied research "Three-layer system of microsatellites, stratospheric gliders, and a swarm of unmanned aerial vehicles for monitoring and data collection", project registration number: Д/Р 0125U001846, work code Д 105-2/2025-П, basis for conducting the research: order of the Ministry of Education and Science of Ukraine number: 369 dated 25.02.2025

Applied research "System for detection and recognition of camouflaged and small-sized objects based on the use of modern computer vision technologies", competition title: Science for strengthening the defense capability and national security of Ukraine, project registration number: 2025.06/0037, basis for project implementation in scientific research and development: decision of the scientific council of the national research fund of Ukraine on determining the winner of the competition, protocol dated June 24, 2025, number: 17

RESEARCH ACTIVITIES:

Main Research Areas:

Unmanned Aerial Vehicles and Mathematical Modeling

Number of Publications (Scopus, WoS, others):

Scopus – 4
WoS – 26
ORCID – 29
Scholar – 85

Monographs, Textbooks:

Automated Design Tools [Electronic Resource]: Textbook / A. V. Artomova – Kharkiv: National Aerospace



NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»





University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2025. – 96 p.

Instrumental Means for Automation of Calculations in Economics, Management, and Engineering. MS EXCEL and MAPLE Model Simulator [Electronic Resource]: Textbook / L. O. Filipkovska, A. V. Artomova – Kharkiv: National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2025. – 319 p.

Davidova, I. O., Artomova, A. V. Innovative Forecasting of Changes in the Management of Socio-Economic Systems: Challenges and Perspectives. In: Management of Innovative Development of Socio-Economic Systems: Collective Monograph [Electronic Edition] / ed. by V. V. Khrapkina, PhD in Economics, Prof.; K. V. Pichik, PhD in Economics, Assoc. Prof. – Kyiv: Kyiv-Mohyla Academy Publishing House, 2024. – pp. 594–613. <https://ekmair.ukma.edu.ua/server/api/core/bitstreams/8ec804ff-e7a4-49d4-a101-9b0eac517b2e/content>

Fundamentals of Business Economics [Textbook] / M. M. Fedorenko, A. V. Artyomova – Kharkiv: National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2024. – 252 p.

Participation in Scientific Conferences:

Alina Artomova and Ihor Artomov. Optimization of UAV Routes and Efficiency Enhancement Using Modern IT Technologies // ICTM 2024, LNNS 1473, pp. 1–11, 2025. https://doi.org/10.1007/978-3-031-94845-9_19 (Scopus Q3)

Alina Artomova and Ihor Artomov. Methodology for Assessing the Efficiency of Generated UAV Flight Route Plans for Optimal Selection // SIEMS-2025, LNNS 1480, pp. 1–11, 2025. https://doi.org/10.1007/978-3-031-95191-6_22 (Scopus Q3)

Igor Sopov, Alina Artomova and Hanna Miroshnychenko. Information Transmission Methods for Coordinating and Controlling UAV Swarm Flights // SIEMS-2025, LNNS 1480, pp. 1–11, 2025. https://doi.org/10.1007/978-3-031-95191-6_23 (Scopus Q3)

Artomov, I. V., Artomova, A. V. Innovative Solutions of Stratospheric Gliders for Observation and Reconnaissance. Information Technologies: Models, Algorithms, Systems (ITMAS – 2024): Proceedings of the 5th All-Ukrainian Scientific and Practical Online Conference (October 30–31, 2024). – Mykolaiv: Admiral Makarov National University, 2024. – pp. 199–203. <https://itconf.nuos.edu.ua/2024/publications/innovative-solutions-of-using-stratospheric-sailplanes-for-observation-and-recognition>

Novichenko, A. S., Artomov, I. V., Artomova, A. V. Prospects of UAV Route Planning for Strengthening Ukraine's Aviation Sector. Interdisciplinary Scientific and Practical Conference "Current Issues in the Development of Ukraine's Aerospace Industry: Engineering, Business, Law" [Electronic Resource]: Conference Proceedings, November 5, 2024, Kharkiv / Ministry of Education and Science of Ukraine, National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute". – Kharkiv: KhAI, 2024. – pp. 191–197. <https://doi.org/10.32620/EBL.24> <http://dspace.library.khai.edu/xmlui/handle/123456789/8336>

Iryna Davydova and Alina Artomova. Forecasting Innovative Changes in Managing Socio-Economic Systems // ICTM 2023, LNNS 996, pp. 1–19, 2024. https://doi.org/10.1007/978-3-031-60549-9_13

TEACHING ACTIVITIES:

Courses Taught:

Information security technologies (Information protection methods)
Automation of scientific research
Automation of engineering calculation systems
Automated Design Tools (Software for Virtual Reality Systems)





Numerical Methods
Cybersecurity

Author Courses, Academic Programs:

Automation of scientific research
Automation of engineering calculation systems
Automation of engineering calculation systems

Methodological Materials, Textbooks:

Automated Design Tools [Electronic Resource]: Textbook / A. V. Artomova – Kharkiv: National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2025. – 96 p.

Instrumental Means for Automation of Calculations in Economics, Management, and Engineering. MS EXCEL and MAPLE Model Simulator [Electronic Resource]: Textbook / L. O. Filipkovska, A. V. Artomova – Kharkiv: National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2025. – 319 p.

GRANTS AND PROJECTS:

Participation in International and National Projects:

Project Jean Monnet «European Integration of Ukraine in Industry 4.0» (2021)

Education program «Smart specialization strategies. Estonian experience», Tallinn, Estonia (2021)

Project «Development of innovation capacity and entrepreneurial competence of Ukrainian of universities: sharing best practice of Estonia», education program «Teaching Entrepreneurship at University», University of Tartu, Estonia (2022–2023)

DAAD Project «Open Education Resources with Ukraine 2024», Leibniz University, Hannover, Germany (2024)

Applied research "Three-layer system of microsatellites, stratospheric gliders, and a swarm of unmanned aerial vehicles for monitoring and data collection", project registration number: Д/Р 0125U001846. Ministry of Education of Ukraine – MEU (2025)

Applied research "System for detection and recognition of camouflaged and small-sized objects based on the use of modern computer vision technologies", competition title: Science for strengthening the defense capability and national security of Ukraine, project registration number: 2025.06/0037 National Research Foundation of Ukraine – NRFU (2025)

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Distinctions, Awards, Prizes:

Certificate of Appreciation on the occasion of the International Day of Aviation and Cosmonautics from the Kharkiv Regional Administration (April 2024)

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

Alina Artomova and Ihor Artomov. Optimization of UAV Routes and Efficiency Enhancement Using Modern IT Technologies // ICTM 2024, LNNS 1473, pp. 1–11, 2025. https://doi.org/10.1007/978-3-031-94845-9_19 (Scopus Q3)



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Alina Artomova and Ihor Artomov. Methodology for Assessing the Efficiency of Generated UAV Flight Route Plans for Optimal Selection // SIEMS-2025, LNNS 1480, pp. 1–11, 2025. https://doi.org/10.1007/978-3-031-95191-6_22 (Scopus Q3)

Iegor Sopov, Alina Artomova and Hanna Miroshnychenko. Information Transmission Methods for Coordinating and Controlling UAV Swarm Flights // SIEMS-2025, LNNS 1480, pp. 1–11, 2025. https://doi.org/10.1007/978-3-031-95191-6_23 (Scopus Q3)

Novichenko, A. S., Artomova, A. V. Problems and Challenges of Flight Route Planning for Unmanned Aerial Vehicles to Improve Object Search Efficiency. Information Processing Systems, 2024, No. 2 (177), pp. 32–40. <https://doi.org/10.30748/soi.2024.177.04> (Category B)

Sopov, Y. O., Artomova, A. V. Optimization of Information Exchange in Swarm UAV Management under Complex Conditions. Information Processing Systems, 2025, No. 1 (180), pp. 89–101. <https://doi.org/10.30748/soi.2025.180.10> (Category B)

Sopov, Y. O., Krytsky, D. M., Artomova, A. V., Artomov, I. V. Methodology for Constructing Trust-Based Routing in Swarm UAV Networks Based on Traffic Analysis and Anomaly Detection. Current State of Scientific Research and Technologies in Industry, 2025, No. 2 (32), pp. 133–142. <https://doi.org/10.30837/2522-9818.2025.2.133> (Category B)

Artomov, I. V., Krytsky, D. M., Artomova, A. V. Development of a Method for Optimal Flight Route Selection for Unmanned Aerial Vehicles. Bulletin of the National University "Lviv Polytechnic", Information Systems and Networks, Issue 18, 2025. (Category B)

Artomov, I. V., Krytsky, D. M., Artomova, A. V. Problems and Approaches to Modeling Trajectories of Stratospheric Gliders in Territorial Monitoring Tasks. Science and Technology of the Air Forces of the Armed Forces of Ukraine, 2025, No. 2 (47). (Category B)

Iryna Davydova and Alina Artomova. Forecasting Innovative Changes in Managing Socio-Economic Systems // ICTM 2023, LNNS 996, pp. 1–19, 2024. https://doi.org/10.1007/978-3-031-60549-9_13 (Scopus Q3)

Books, Chapters in Collective Monographs: text

Automated Design Tools [Electronic Resource]: Textbook / A. V. Artomova – Kharkiv: National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2025. – 96 p.

Instrumental Means for Automation of Calculations in Economics, Management, and Engineering. MS EXCEL and MAPLE Model Simulator [Electronic Resource]: Textbook / L. O. Filipkovska, A. V. Artomova – Kharkiv: National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2025. – 319 p.

Davidova, I. O., Artomova, A. V. Innovative Forecasting of Changes in the Management of Socio-Economic Systems: Challenges and Perspectives. In: Management of Innovative Development of Socio-Economic Systems: Collective Monograph [Electronic Edition] / ed. by V. V. Khrapkina, PhD in Economics, Prof.; K. V. Pichik, PhD in Economics, Assoc. Prof. – Kyiv: Kyiv-Mohyla Academy Publishing House, 2024. – pp. 594–613. <https://ekmair.ukma.edu.ua/server/api/core/bitstreams/8ec804ff-e7a4-49d4-a101-9b0eac517b2e/content>

Fundamentals of Business Economics [Textbook] / M. M. Fedorenko, A. V. Artomova – Kharkiv: National Aerospace University named after M. E. Zhukovsky "Kharkiv Aviation Institute", 2024. – 252 p.





Links to Citation Database Profiles:

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=59161654300&origin=resultslist>

WOS: <https://www.webofscience.com/wos/author/record/33170082>

Orcid: <https://orcid.org/0000-0002-6761-2066>

Scholar: <https://scholar.google.com.ua/citations?user=tzsYkfIAAAAJ&hl>

ADDITIONAL INFORMATION:

IT Skills:

Operational and Basic Skills

Data Handling and Analysis

Specialized Software

