



Name	Iryna Trofymova
Position, Department/Faculty	Senior Lecturer, Department of Mathematical Modeling and Artificial Intelligence
Academic Degree, Academic Title	
Email:	i.trofymova@khai.edu
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Google Scholar:	https://scholar.google.com/citations?hl=ru&user=KiskVi4AAAAJ
ResearchGate:	https://www.researchgate.net/search/publication?q=Trofymova+Irina

EDUCATION:

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

National Aerospace University – Kharkiv Aviation Institute, Automatic control systems for aircraft, 1989

Postgraduate/Doctoral studies:

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Additional training, certification programs:

Regular student of the courses of the Advanced Training Faculty, National Aerospace University – Kharkiv Aviation Institute

Advanced training course "Methods and tools of computational mathematics with Python", NGO Kharkiv IT Cluster / INSART, Certificate № ПК-589

Advanced training course "Introduction to Python Programming for Big Data and Data Science", Kharkiv University of Technology "STEP", Certificate № ПК-288

Advanced training course "Design system: from basics to implementation", Kharkiv IT Cluster, Certificate № ПК-680

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

JSC "HARTRON", 1989-1999, Engineer

National Aerospace University – Kharkiv Aviation Institute, 1999-2005, assistant of the Informatics department

National Aerospace University – Kharkiv Aviation Institute, 2005 - Current, Senior Lecturer

Teaching Experience:

Aerospace Lyceum, Computer Science teacher

Physics and Mathematics School of KhAI, Computer Science teacher

Department of Mathematical Modeling and Artificial Intelligence, Senior Lecturer



Experience in International or National Projects:

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RESEARCH ACTIVITIES:

Main Research Areas:

Mathematical Modeling, Optimization Methods, Intelligent Systems

Number of Publications (Scopus, WoS, others):

Over 12 scientific publications, including indexed articles in Scopus and Web of Science databases

Monographs, Textbooks:

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Participation in Scientific Conferences:

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TEACHING ACTIVITIES:

Courses Taught:

Informatics and computer technology, Organization and processing of electronic information, Fundamentals of designing information systems and web design, Mathematical foundations of linguistics, Databases and information architecture, Internet technologies and resources, Fundamentals of web design

Author Courses, Academic Programs:

Author of the course "Organization and processing of electronic information", "Professional use of office programs"

Methodological Materials, Textbooks:

Co-author of methodological materials in the field of computer science

Developer of electronic resources and video materials for hybrid and online teaching (LMS Moodle)

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Acknowledgment from the Kharkiv City Mayor

Kharkiv City Council [2020]

Acknowledgment from Kharkiv Regional Council

Kharkiv Regional State Administration [2023]

INTERNATIONAL ACTIVITIES:

Internships:

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NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»





Cooperation with Foreign Universities:
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Teaching/Lecturing Abroad:
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SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

Mykola Butkevych, Kseniia Bazilevych, Iryna Trofymova. Classification of Patients with Suspected Coronary Artery Disease Based on Locally Weighted Least Squares Method. International Workshop of IT-professionals on Artificial Intelligence (ProfIT AI) 2023, pp. 233-239

Andrey Chukhray, David Dvinskykh, Vitaliy Narozhnyy, Iryna Trofymova, Tetiana Stoliarenko. Using Binominal Theorem for Expression Tree Comparing in Intelligent Tutoring Systems. International Workshop of IT-professionals on Artificial Intelligence (ProfIT AI) 2023, pp. 255-260.

Anatoly Kulik, Iryna Trofymova, Andrey Chukhray, Tetiana Stoliarenko, Oleksandr Yevdokymov Relevant Objectives of Developing SQL Adaptive Learning Technology. Dessert 2022, Scopus

Books, Chapters in Collective Monographs:

Chuhray, A., Stolyarenko, T., Trofymova, I. Vstup do reliatsiinykh baz danykh. Kyiv: Interservis, 2024

Trofymova, I., Menyailov, Ye. Rozv'iazannia zavdan student's'koi olimpiady z informatyky. Kharkiv: National Aerospace University "Kharkiv Aviation Institute". – 2022

Menyailov, Ye., Bazilevich, K., Trofymova, I. Spilne vykorystannia movy Assembler ta mov prohamuvannia vysokogo rivnia. Kharkiv: National Aerospace University "Kharkiv Aviation Institute". – 2021

ADDITIONAL INFORMATION:

Language Proficiency:
Ukrainian, English

IT Skills:

Microsoft Office / Zoom / Google Workspace / Social Media / Python / Figma / Adobe Photoshop / Html / CSS

Social and Community Activities:

Since 2019 - Jury member of the IV stage of the All-Ukrainian Student Olympiad in Information Technologies

curator of academic groups

department dispatcher

