



Name	Olena Yashyna
Position, Department/Faculty	Docent (Associate Professor), Department of Computer Science and Information Technologies / Faculty of Aircraft Control Systems
Academic Degree, Academic Title	Candidate of Technical Sciences (PhD), Docent (Associate Professor)
Email:	o.yashina@khai.edu
Scopus Author ID:	4520881
Web of Science ResearcherID:	
ORCID iD:	0000-0003-2459-1151
Google Scholar:	https://scholar.google.com/citations?user=Yn8dsl4AAAAJ
ResearchGate:	

EDUCATION:

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

Kharkiv Aviation Institute, computer information processing and management systems, 1998

Postgraduate/Doctoral studies:

Candidate of Technical Sciences, National Aerospace University "Kharkiv Aviation Institute", 2003

Additional training, certification programs:

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

National Aerospace University «Kharkiv Aviation Institute» since 1998 to present time.

Teaching Experience:

National Aerospace University «Kharkiv Aviation Institute»

May 2002 – April 2005	Assistant
Since April 2005-04-20	Associate Professor

Experience in International or National Projects:

2012 – 2014	Executor	State budget project "Development of the theoretical foundations of logistics management of the design, production, operation and disposal of aviation equipment", National Aerospace University "Kharkiv Aviation Institute" (No 0112U000104, MES of Ukraine)
2015 – 2017	Executor	State budget project "Development of theoretical foundations of distributed

		intelligent management of investment projects and programs of reform and development of the machine building complex of Ukraine”, National Aerospace University “Kharkiv Aviation Institute” (Г302-8/2015-Ф, MES of Ukraine)
2015 – 2017	Executor	State budget project “Development of theoretical bases by investment projects and programs of reformation and development of machine-building complex of Ukraine”, National Aerospace University “Kharkiv Aviation Institute”, (No 0115U003328, MES of Ukraine)
2018 – 2020	Executor	State budget project “Information technologies in the management of the development of organizational and technical systems”, National Aerospace University “Kharkiv Aviation Institute” (No 0118U003824, MES of Ukraine)
2021 – 2023	Executor	State budget project “Information technologies in management of logistics and distributed systems”, National Aerospace University “Kharkiv Aviation Institute” (No 0121U111437, MES of Ukraine)

RESEARCH ACTIVITIES:

Main Research Areas:

Data Science and Data Engineering, Artificial Intelligence, Machine Learning, Computer Vision

Number of Publications (Scopus, WoS, others):

Total publications: 92

Indexed in Scopus – 7

Copyright certificates (Computer Programs) – 2

Monographs, Textbooks:

Monographs – 1

Textbooks – 4

Participation in Scientific Conferences:

13th International Conference on ICT in Education, Research and Industrial Applications. Integration, Harmonization and Knowledge Transfer ICTERI 2017

International Scientific and Technical Conference “Integrated Computer Technologies in Mechanical Engineering”, 2019

International Workshop of IT-professionals on Artificial Intelligence Profit AI 2021, 2022

TEACHING ACTIVITIES:

Courses Taught:

Data Structures (Bachelor), National Aerospace University “Kharkiv Aviation Institute”

Information Systems Design (Bachelor), National Aerospace University “Kharkiv Aviation Institute”

Information Management of IT Project (Bachelor), National Aerospace University “Kharkiv Aviation Institute”

Data Science Fundamentals with Python (Master), National Aerospace University “Kharkiv Aviation Institute”

Author Courses, Academic Programs:



Data Science Fundamentals with Python (Master), National Aerospace University “Kharkiv Aviation Institute”

Methodological Materials, Textbooks:

1. IT project management: a textbook / O. S. Yashina, T. S. Pisklova; Ministry of Education and Science of Ukraine, National Aerospace University "Kharkiv. Aviation Institute". - Kharkiv. - National Aerospace University "Kharkiv Aviation Institute", 2020. - 128 p.
<https://library.khai.edu/catalog?mode=DocBibRecord&docid=510534912>
2. Design of information systems: a textbook / O. S. Yashina, T. S. Pisklova; Ministry of Education and Science of Ukraine, National Aerospace University "Kharkiv. Aviation Institute". - Kharkiv - National Aerospace University "Kharkiv Aviation Institute", 2024. - 68 p.
<https://library.khai.edu/catalog?mode=DocBibRecord&docid=510553371>
3. Structuring information in management: methodical instructions for lab. works / Ministry of Education and Science of Ukraine, National Aerospace University "Kharkiv Aviation Institute" ; Compiled by: O. S. Yashina, O. V. Konovalova, T. S. Pisklova. - Kharkiv. - National Aerospace University "Kharkiv Aviation Institute", 2019. - 49 p.
<https://library.khai.edu/catalog?mode=DocBibRecord&docid=510520693>
4. Information systems design: teaching aids for lab. practicals / O. S. Yashina, O. V. Konovalova, K. O. Zapadnya ; Ministry of Education and Science of Ukraine, National Aerospace University "Kharkiv Aviation Inst." - Kharkiv. - National Aerospace Inst. "Kharkiv Aviation Inst.", 2021. - 79 p.
<https://library.khai.edu/catalog?mode=DocBibRecord&docid=510544492>
5. Design of multi-level architecture of information control systems / O.E. Fedorovych, O.S. Yashina, L.M. Lutay. – Kh.: National Aerospace University “Kharkiv Aviation Institute”, 2012. – 132 p.

GRANTS AND PROJECTS:

Participation in International and National Projects:

Wildau-Kharkiv IT Bridge II in the DAAD programme “Digital Ukraine: Ensuring academic success in times of crisis (2023)”, Certificate 57653041208.

Grants, Scholarships, Academic Mobility Programs:

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Distinctions, Awards, Prizes:

Kharkiv City Mayor`s certificate of honor, 2019;

Kharkiv City Council certificate of honor, 2021.

National Aerospace University “Kharkiv Aviation Institute” certificate of honor, 2024.

Membership in Professional Associations:



NATIONAL AEROSPACE UNIVERSITY
«KHARKIV AVIATION INSTITUTE»





Member of the PO Ukrainian Scientific and Educational IT Society (since 2021)

INTERNATIONAL ACTIVITIES:

Internships:

Cooperation with Foreign Universities:

Teaching/Lecturing Abroad:

Wildau-Kharkiv IT Bridge II in the DAAD programme “Digital Ukraine: Ensuring academic success in times of crisis (2023)”, Certificate 57653041208.

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

6. Chukhray A., Yashina E., Leshchenko O. Formalization of tasks generation for complex of interactive web-tests on math // Radioelectronic and Computer Systems, 2021, no. 3(99). – pp 140-148; <https://doi.org/10.32620/reks.2021.3.11>]
7. Chukhray A., Yashina E. Models and Software for Intelligent Web-Based Testing System in Mathematics // Proceedings of the International Workshop of IT-professionals on Artificial Intelligence (ProFIT AI 2021) 2021. Kharkiv, Ukraine, September 20-21, 2021. – P. 1 – 10. <http://ceur-ws.org/Vol-3003/paper1.pdf>
8. Yashina, E., Rubanik, T., Chukhray, A. Speech-To-Text Software Design for the High Education Learning. // Proceedings of the 2nd International Workshop of IT-professionals on Artificial Intelligence (ProFIT AI 2022) 2022. Łódź, Poland, December 2-4, 2022. , 3348, pp 44–56. <https://ceur-ws.org/Vol-3348/paper4.pdf>
9. Fedorovich O., Krytskyi D., Leshchenko O., Yashina O, Malieieva Y. Modeling waves of a strike drones swarm for a massive attack on enemy targets // Radioelectronic and Computer Systems, Vol 2024, No 2 (2024). – PP. 203 – 212. DOI: <https://doi.org/10.32620/reks.2024.2.16>
10. Seliutin D., Yashyna E. Intellectual code analysis in automation grading // Radioelectronic and Computer Systems, Vol 2024, No 4 (2024). – PP. 68 – 82. DOI: [10.32620/reks.2024.4.06](https://doi.org/10.32620/reks.2024.4.06)
11. Kulik A., Zeleniak O., Chukhray A., Prokhorov O., Yashyna O., Havrylenko O., Yevdokymov O., Torzhkov A., Zayarnyi O. The concept of intelligent training system for Ukrainian school final STEM exam preparation // System research and information technologies, No. 2 (2025)/ – PP. 125 – 138. DOI: [10.20535/SRIT.2308-8893.2025.2.09](https://doi.org/10.20535/SRIT.2308-8893.2025.2.09)

Books, Chapters in Collective Monographs:

Component design of aerospace technology / O.E. Fedorovych, E.S. Yashina, I.V. Beletsky. - H.: Nat. aerospace University "Khark. aviation Institute of Technology", 2012. - 180 p

Links to Citation Database Profiles:

<https://www.scopus.com/authid/detail.uri?authorId=57194520881>
<https://scholar.google.com/citations?user=Yn8dsl4AAAAJ>





ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian – Native

English – Intermediate

IT Skills:

Programming languages	C#, Java, Python
Tools and frameworks	.NET Core, Entity Framework Core, LINQ, MS Identity, xUnit, Maven, Spring Boot, Junit, Numpy, Pandas
Databases	MS SQL Server, Oracle, PostgreSQL
Other	MathCAD, MatLab, Simulink, SCADA Trace Mode, GitHub, MS Azure DevOps, Trello, CI/CD, Agile, SOLID, TDD

Social and Community Activities:

Regular host of webinars aimed at career guidance, promotion of science, and modern information technologies among youth.

