



Name	Anatolii Shostak
Position, Department/Faculty	Associate Professor, Department of Computer Systems, Networks and Cybersecurity, Faculty of Radio Electronics, Computer Systems and Infocommunications
Academic Degree, Academic Title	Doctoral degree (PhD) in Information Technology, Associate Professor
Email:	a.shostak@csn.khai.edu
Scopus Author ID:	
Web of Science ResearcherID:	
ORCID iD:	
Google Scholar:	https://scholar.google.com.ua/citations?hl=uk&user=1GkpsmsAAAAJ
ResearchGate:	

EDUCATION:

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

National Aerospace University "Kharkiv Aviation Institute", Master of Science Degree in Radioelectronic Devices, 1981

Postgraduate/Doctoral studies:

Riga higher military school, Candidate of Technical Sciences (PhD), 1990.

Additional training, certification programs:

Coursera Google AI Essentials, 2025

GlobalLogic Education IT Tools for Teachers, 2023

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

[1983-1985] junior researcher Department of Radioelectronic Devices of Aircraft Kharkiv Aviation Institute

[1985-2005] - adjunct, assistant, senior teacher, associate professor Riga and Kharkiv higher military school

[2005-2025] – present. Associate Professor of the Department of Computer Systems, Networks and Cybersecurity at National Aerospace University "Kharkiv Aviation Institute"

Teaching Experience:

40 years

Experience in International or National Projects:

RESEARCH ACTIVITIES:



Main Research Areas:

Algorithms and data structures, image processing, artificial intelligence.

Number of Publications (Scopus, WoS, others):

More than 40 scientific publishes.

Monographs, Textbooks:

Author and co-author of more than 8 textbooks and monographs.

Participation in Scientific Conferences:

Took part in the work of more than 18 scientific and technical conferences.

Regularly attend the seminars Critical Computer Technologies and Systems (CriCTecS) and Dependable Information Technologies.

TEACHING ACTIVITIES:**Courses Taught:**

Programming technologies, Data models and structures, Object-oriented programming, Database organization.

Author Courses, Academic Programs:

1. Programming technologies
2. Data models and structures,
3. Object-oriented programming
4. Database organization

Methodological Materials, Textbooks:

Working programs for the courses "Programming Technologies", "Data Models and Structures", "Object-Oriented Programming", "Database Organization". Educational and professional program "System Programming" in the specialty F7 "Computer Engineering".

1. Dergachov K., Krasnov L., Shostak A. (2021) Object-oriented design of technical systems: Part 1. Fundamentals of motivating neural networks. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 168 p.
2. Shostak A. (2021) Models and data structures. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 88 p.
3. Boyarchuk A., Shostak A. (2021) Organization of databases. Lecture notes. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 160 p.
4. Shostak A. (2013) Database Client-Side Development. Tutorial. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 88 p.
5. Shostak A. (2011) Database Organization. Tutorial. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 170 p.
6. Lysenko I., Shostak A. (2011) Programming Information Security Algorithms in the .NET Framework. Tutorial. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 74 p.

GRANTS AND PROJECTS:

Participation in International and National Projects:

“Methods, models and information technologies for increasing the reliability and safety of foldable IT systems at the stages of disaggregation and deployment” (No. D/R 0121U113842. Disaggregation of features testing and verification of the implementation and distribution of guaranteed IT systems and infrastructures), No. 4 12/16/2021 r.

Grants, Scholarships, Academic Mobility Programs:

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Distinctions, Awards, Prizes:

Membership in Professional Associations:

INTERNATIONAL ACTIVITIES:

Internships:

Coursera Google AI Essentials, 2025

GlobalLogic Education IT Tools for Teachers, 2023

Cooperation with Foreign Universities:

Teaching/Lecturing Abroad:

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Shostak A. (2025) On the features of triplet’s formation for Siamese neural network training. Control, Navigation and Communication Systems. 2025. No. 1, pp. 134-137 doi: 10.26906/SUNZ.2025.1.134
2. Shostak A. (2024) On the features of the formation of input data in the Siamese neural network. Control, Navigation and Communication Systems. 2024. No. 3, pp. 193-195 doi: 10.26906/SUNZ.2024.3.193
3. Shostak A. (2021) On the features of the formation of descriptors in the Siamese neural network. Control, Navigation and Communication Systems. 2021. No. 4, pp. 91-96 <https://doi.org/10.26906/SUNZ.2021.4.079>
4. Andrieiev S., Shostak A. (2024) Formation of attachments in a Siamese neural network. VII All-Ukrainian Scientific and Technical Conference “Computer Technologies: Innovations, Problems, Solutions”, Zhytomyr, December 2-3, 2024 – Zhytomyr: Zhytomyr Polytechnic Institute, 2024. pp. 17-18.
5. Kochuk S., Andrieiev S., Shostak A. (2024) The use of geoinformation technologies for the construction of the atlas of the destructive territory of the city of Bahmut. The latest technologies -

for airspace protection XX International Conference of the Kharkiv National Air Force University. May 2 - 3, 2024 p.209

6. Andrieiev S., Shostak A. (2023) Estimating the homogeneity of random number samples on the .Net platform. VI All-Ukrainian Scientific and Technical Conference "Computer Technologies: Innovations, Problems, Solutions", Zhytomyr, November 29-30, 2023 – Zhytomyr: Zhytomyr Polytechnic Institute, 2023. pp. 26-27.
7. Ganzha D., Shostak A. (2023) Protecting traffic sign recognition systems from attacks and interference. INNOVATIVE DEVELOPMENT OF SCIENCE, TECHNOLOGY AND EDUCATION Proceedings of II International Scientific and Practical Conference Vancouver, Canada 16-18 November 2023 p.145-147
8. Shostak A. (2023) Estimating the randomness of random number samples on the .NET platform. XI International Scientific and Technical Conference "Problems of Informatization" Kharkiv, Ukraine), November 16-17, 2023 Volume 1, p. 68

Books, Chapters in Collective Monographs:

1. Dergachov K., Krasnov L., Shostak A. (2021) Object-oriented design of technical systems: Part 1. Fundamentals of motivating neural networks. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 168 p.
2. Boyarchuk A., Shostak A. (2021) Organization of databases. Lecture notes. Ministry of Education and Science of Ukraine, National Aerospace University "KhAI", Kharkiv. 160 p.

Links to Citation Database Profiles:

Google Scholar: <https://scholar.google.com.ua/citations?hl=uk&user=1GkpsmsAAAAJ>

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian, Russian, English

IT Skills:

Operation systems: Microsoft Windows

Programming languages: C#, Python, SQL

Databases: MS SQL

Frameworks: WF, WPF

Learning platform: Moodle, Sakai, Mentor

Social and Community Activities:

Member of the Scientific and Methodological Commission National Aerospace University "Kharkiv Aviation Institute". Guarantor of the Educational and professional program "System Programming" in the specialty F7 "Computer Engineering".