Name	Sadovnykov Borys
Position, Department/Faculty	Assistant of the Aircraft Control Systems Department
Academic Degree, Academic Title	Master of Software Engineering, PhD Student
Email:	b.sadovnykov@khai.edu
Scopus Author ID:	-
Web of Science ResearcherID:	-
ORCID iD:	0009-0009-4180-2863
Google Scholar:	https://scholar.google.com/citations?user=ZjaLIokAAAAJ&hl=en
ResearchGate:	-

EDUCATION:

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

Bachelor of Software Engineering
Kharkiv National University of Radioelectronics (KNURE) [09/2016 – 06/2020]

Master of Software Engineering
Kharkiv National University of Radioelectronics (KNURE) [09/2020 – 06/2022]

Postgraduate/Doctoral studies:
PhD in Telecommunications
Ukrainian State University of Railway Transport (UkrSURT) [01/09/2022 – present]

Additional training, certification programs:
English language certificate (B2)

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

C++ Developer
Digital Cloud Technologies [01/06/2019 – 20/08/2021]

Lead Software Engineer
SoftServe [27/08/2021 – present]

Assistant of the Aircraft Control Systems Department
National Aerospace University "Kharkiv Aviation Institute" [01/09/2025 - present]
scientific work, teaching courses: technical vision in control systems, information protection in aviation systems.

NATIONAL AEROSPACE UNIVERSITY «KHARKIV AVIATION INSTITUTE»

RESEARCH ACTIVITIES:

Main Research Areas:
Neural networks.
Objects recognition.
Image processing

Number of Publications (Scopus, WoS, others):
13 publications, including 1 article in an international professional collection.

Participation in Scientific Conferences:
8 presentations at international scientific and practical conferences.

TEACHING ACTIVITIES:

Courses Taught:
Technical vision in control systems, Information protection in aviation systems.

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):
1. Sadovnykov B.I., Lysechko V.P., Komar O.M., Zhuchenko O.S. A research of the latest approaches to visual image recognition and classification. 2024, National University «Zaporizhzhia Polytechnic». Radio Electronics, Computer Science, Control, 1(68), P. 140-147 DOI 10.15588/1607-3274-2024-1-13 (Web Of Science – 2024).
2. Sadovnykov, B.I., Zhuchenko O.S. (2025) Method for Object Detection and Recognition in Video Streams Using Interframe Delta Computation. 2025. National University «Yuri Kondratyuk Poltava Polytechnic». Control, Navigation and Communication Systems, 2(80).
3. Sadovnykov B.I., Zhuchenko O.S. Mathematical model for object detection and recognition in video streams using inter-frame difference analysis. Національний авіаційний університет. Наукоємні технології, «Електроніка, телекомунікації та радіотехніка», Київ, 2025, Том. 66, №2.
4. Sadovnykov B. I., Lysechko et al. Experimental study of optimized face recognition algorithms for resource – constrained //Academic journal: Mechanics Transport Communications . – 2023. – Vol. №21, Issue 1, article №2343. – P. 89-95.
5. Sadovnykov B.I., Lysechko V.P. Modern approaches to visual object recognition and classification// XXI Міжнародна наукова конференція «Новітні технології для захисту повітряного простору». Харківський національний університет повітряних сил ім. І. Кожедуба. Харків: 9 – 10 квітня 2025 року. С. 332-333.
6. Lysechko V., Zorina O., Sadovnykov B., Cherneva G., Pastushenko V., Experimental study of optimized face recognition algorithms for resource – constrained. Mechanics, Transport, Communications. Journal article № 2343, vol. 21, issue 1, 2023 https://mtc-aj.com/library/2343_EN.pdf .

Links to Citation Database Profiles:
https://orcid.org/0009-0009-4180-2863
https://scholar.google.com/citations?user=ZjaLIokAAAAJ&hl=en

ADDITIONAL INFORMATION:

Language Proficiency:
Ukrainian – native
English – B2

IT Skills:
Software: Microsoft Word/Excel/PowerPoint/Visio, Zoom/Google Meet.
Programming languages: C/C++,C#, Python, Java, Go, Objective-C, Bash.
Environments: Visual Studio & Visual Studio Code, XCode, PyCharm.
OS: Windows, MacOS.
Infrastructure: MS SQL Server, SQLite, MySQL, RabbitMQ, Sentry, Scarif.
Other: Git, Socket Programming.