



Name	Mykhailo Milanov
Position, Department/Faculty	Associate Professor of the Department of Computer Science and Information Technology, Faculty of Aircraft Control Systems.
Academic Degree, Academic Title	Candidate of Technical Sciences, Associate Professor.
Email:	m.milanov@khai.edu
Scopus Author ID:	
Web of Science ResearcherID:	
ORCID iD:	
Google Scholar:	https://scholar.google.com/citations?view_op=new_profile&hl=en
ResearchGate:	

EDUCATION:

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

EDUCATION:

Basic education (university, specialty, year of graduation): 01Kharkiv Aviation Institute, "Aircraft Engines", 1978

Postgraduate/Doctoral studies:

Candidate of Technical Sciences, National Aerospace University "Kharkiv Aviation Institute", 1986

Additional training, certification programs:

none

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

04.1978 - 02.1980 - engineer of the Kharkov Aviation Institute Research Institute;
 03.1980 - 05.1982 - Junior Researcher, Department of Automated Control Systems;
 06.1982 - 04.1986 - Researcher at the Department of Automated Control Systems;
 05.1986 - 01.1989 - Senior Researcher, Department of Automated Control Systems;
 02.1989 - present - Associate Professor of the Department of "Automated Control Systems".

Teaching Experience:

02.1989 - present - Associate Professor of the Department of "Automated Control Systems".



Experience in International or National Projects:

2018 – 2020	Executor	State 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 project "Information technologies in management of logistics and distributed systems", National Aerospace University "Kharkiv Aviation Institute" (No 0121U111437, MES of Ukraine)
2024 – 2026	Executor	State project "Models and intelligent technologies for logistics management of high-tech products in the context of digital transformation of industry", National Aerospace University "Kharkiv Aviation Institute" (No 0124U002045, MES of Ukraine)

RESEARCH ACTIVITIES:

Main Research Areas:

Development of computer system architecture, design of circuit solutions for computer Systems, Artificial Intelligence, Machine Learning, Simulation Modeling, Industrial Automation, Digital Twins, Internet of Things, Cloud Technologies, AR/VR

Number of Publications (Scopus, WoS, others):

Total publications: 122
Indexed in Scopus: none
Indexed in WoS: none
Patents: none
Copyright certificates – 2
Others – 116

Monographs, Textbooks:

None

Participation in Scientific Conferences:

1. International Scientific and Technical Conference "Modern Directions of Development of Information and Communication Technologies and Management Tools", Baku-Kharkiv-Zhilina, April 9-10, 2020.
2. IX International Scientific and Technical Conference "Modern Directions of Development of Information and Communication Technologies and Management Tools", Baku-Kharkiv-Zhilina, April 9-10, 2020
3. The 30th International Conference "New Technologies in Mechanical Engineering", Koblevo, Mykolaiv region, Ukraine, September 2, 3-8, 2020,



4. III INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE "INFORMATION SYSTEMS AND TECHNOLOGIES IN MEDICINE" (ICM-2020), November 26–27, 2020, Kharkiv, Ukraine,
5. IV INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE "INFORMATION SYSTEMS AND TECHNOLOGIES IN MEDICINE" (ICM-2021), November 25–26, 2021, Kharkiv, Ukraine,
6. IX International Scientific and Technical Conference "Problems of Informatization", Cherkasy, Baku, Bielsko-Biala, Poltava, November 18-19, 2021,
7. X International Scientific and Technical Conference "Problems of Informatization", Cherkasy, Baku, Bielsko-Biala, Poltava, November 24-25, 2022,
8. XXXII All-Ukrainian Conference "New Technologies in Mechanical Engineering", September 3-6, 2022,
9. XXXIII All-Ukrainian Conference "New Technologies in Mechanical Engineering", September 4-7, 2023, Kharkiv, Ukraine,
10. XIII International Scientific and Technical Conference "Modern Directions of Development of Information and Communication Technologies and Management Tools", Baku, Kharkiv, Zhilina, April 26-27, 2023
11. XIV International Scientific and Technical Conference "Modern Directions of Development of Information and Communication Technologies and Management Tools", Baku, Kharkiv, Zhilina, April 25-26, 2024
12. XXXIV All-Ukrainian Conference "New Technologies in Mechanical Engineering", Kharkiv, September 4-7, 2024
13. XIV International Scientific and Technical Conference "Modern directions of development of information and communication technologies and management tools". - Baku - Kharkiv - Zhilina, April 24-26, 2024
14. VI INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE OF YOUNG SCIENTISTS, POSTGRADUATE STUDENTS AND STUDENTS "MODERN INFORMATION TECHNOLOGIES AND SYSTEMS IN MANAGEMENT". April 10-11. 2025
15. XVIII All-Ukrainian Scientific and Practical WEB Conference of Postgraduate Students, Students and Young Scientists "Computer Intelligent Systems and Networks" KICM-2025 March 25-27, 2025 Kyvvi Rih
16. CURRENT DIRECTIONS OF DEVELOPMENT OF INFORMATION AND COMMUNICATION TECHNOLOGIES AND MANAGEMENT TOOLS, April 24-25, 2025
17. 35th All-Ukrainian Conference "NEW TECHNOLOGIES IN MECHANICAL ENGINEERING" 02 – 05 September 2025. Kharkiv, Ukraine
18. 29th International Youth Forum "Radio Electronics and Youth in the 21st Century". – Kharkiv: KhNURE. 2025.
19. Prospects for the development of mechanical engineering and transport-2025 Vinnytsia National Technical University 03.06.2025 – 05.06.2025.

TEACHING ACTIVITIES:

Courses Taught:

1. Computer Systems Architecture (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".
2. Computer Circuitry (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".
3. Enterprise IT Infrastructure Architecture (Bachelor's) National Aerospace University.

"Kharkiv Aviation Institute".

4. Computer Systems Organization and Functioning (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".

5. Computer Circuitry and Computer Architecture (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".

6. Electrical and Electronics Fundamentals (Bachelor's) International Solomon University.

Author Courses, Academic Programs:

1. Computer Systems Architecture (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".

2. Computer Circuitry (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".

3. Enterprise IT Infrastructure Architecture (Bachelor's) National Aerospace University. "Kharkiv Aviation Institute".

4. Computer Systems Organization and Functioning (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".

5. Computer Circuitry and Computer Architecture (Bachelor's) National Aerospace University "Kharkiv Aviation Institute".

6. Electrical and Electronics Fundamentals (Bachelor's) International Solomon University.

Methodological Materials, Textbooks:

1. Milanov M.V. Computer circuit engineering and computer architecture: Textbook for laboratory practice [Text] / M.V. Milanov, S.L. Momot, M.A. Momot // National Aerospace University named after M.E. Zhukovsky "Kharkiv Aviation Institute" (KHAU), 2020., 65 p.

GRANTS AND PROJECTS:

Participation in International and National Projects:

none

Grants, Scholarships, Academic Mobility Programs:

none

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

none

Distinctions, Awards, Prizes:

none

Membership in Professional Associations:

2021 – present

Member of the PO Ukrainian Scientific and Educational IT Society





INTERNATIONAL ACTIVITIES:

Internships:

none

Cooperation with Foreign Universities:

none

Teaching/Lecturing Abroad:

none

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Milanov M.V. Application of geofences in the development of an information system for monitoring the movement of personnel at the facility and accounting for work performed [Text] / M.V. Milanov, V.O. Kosharsky // IX International Scientific and Technical Conference "Modern Trends in the Development of Information and Communication Technologies and Management Tools", Baku-Kharkiv-Zhilina, April 9-10, 2020, Vol. 1, P. 55.
2. Milanov M.V. Application of information and communication technologies for managing parking lot maintenance [Text] / M.V. Milanov, V.V. Nakazny // IX International Scientific and Technical Conference "Modern Trends in the Development of Information and Communication Technologies and Management Tools", Baku-Kharkiv-Zhilina, April 9-10, 2020, Vol. 1, P. 52.
3. Milanov M.V. The use of augmented reality in computer technology for modeling interior design [Text] M.V. Milanov // Thirtieth International Conference "New Technologies in Mechanical Engineering", Koblevo, Nikolaev region, Ukraine, September 2, 3-8, 2020, p.38.
4. Milanov M.V. The use of computer technology for modeling navigation using augmented reality objects [Text] / M.V. Milanov // Thirtieth International Conference "New Technologies in Mechanical Engineering", Koblevo, Nikolaev region, Ukraine, September 2, 3-8, 2020, p.39.
5. Milanov M.V. Development of the application of information support of medical diagnostic and treatment centers [Text] / M.V. Milanov, Yu.A. Leshchenko, A.V. Yelizova, R.V. Artyukh // Modern Information Systems, vol. 4, No. 1 (2020) – pp. 77-84.
6. Milanov M.V. Computer Circuitry and Computer Architecture: A Textbook for Laboratory Practicum [Text] / M.V. Milanov, S.L. Momot, M.A. Momot // National Aerospace University named after M.E. Zhukovsky "Kharkiv Aviation Institute" (KHAU), 2020., 65 pp.
7. Milanov M.V. FORMING OF STRUCTURE OF INFORMATION SUPPORT OF MEDICAL TREATMENT AND DIAGNOSTIC CENTER [Text] / M.V. Milanov, Yu.A. Leshchenko, A.V. Yelizova // III INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE "INFORMATION SYSTEMS AND TECHNOLOGIES IN MEDICINE" (ICM-2020), November 26–27, 2020, Kharkiv, Ukraine, pp. 27-28.
8. Milanov M.V. DEVELOPMENT OF APPLICATION FOR FORMING OF A PERSONAL TRAINING PROGRAM [Text] / M.V. Milanov, Yu.A. Leshchenko, A.V. Yelizova // IV INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE "INFORMATION SYSTEMS AND TECHNOLOGIES IN MEDICINE" (ICM-2021), November 25–26, 2021, Kharkiv, Ukraine, pp. 14-15.
9. Milanov M.V. Development of models of the functioning of a tour operator based on the algebra of



algorithms [Text] / M.V. Milanov, M.I. Dyudyuk // IX International Scientific and Technical Conference "Problems of Informatization", Cherkasy, Baku, Bielsko-Biala, Poltava, November 18-19, 2021, vol. 2, p. 55.

10. Milanov M.V. Information system for forming an individual nutrition plan for fitness center clients [Text] / M.V. Milanov // X International Scientific and Technical Conference "Problems of Informatization", Cherkasy, Baku, Bielsko-Biala, Poltava, November 24-25, 2022, vol. 2, p. 64

11. Milanov M.V. Selection and justification of a mathematical model for compiling a diet for fitness center clients [Text] / M.V. Milanov, O.V. Miroshnichenko // XXXII All-Ukrainian Conference "New Technologies in Mechanical Engineering", September 3-6, 2022, Kharkiv, Ukraine, P. 80.

12. Milanov M.V. Research on the features of the development of computer network games MULTIPLAYER FIRST – PERSON SHOOTER [Text] / M.V. Milanov // XXXIII All-Ukrainian Conference "New Technologies in Mechanical Engineering", September 4-7, 2023, Kharkiv, Ukraine, P. 73-74.

13. Milanov M.V. Simulation model of a border checkpoint [Text] / M.V. Milanov, O.V. Miroshnichenko // XIII International Scientific and Technical Conference "Modern Directions of Development of Information and Communication Technologies and Management Tools", Baku, Kharkiv, Zhilina, April 26-27, 2023, vol. 2, p. 30

14. Milanov M.V. Development of an automated system for analyzing the throughput capacity of a border checkpoint [Text] / M.V. Milanov // XIV International Scientific and Technical Conference "Modern Directions of Development of Information and Communication Technologies and Management Tools", Baku, Kharkiv, Zhilina, April 25-26, 2024, vol. 2, p. 48.

15. Milanov M.V. Selection and justification of a mathematical model of tour operator activity [Text] / M.V. Milanov // XXXIV All-Ukrainian Conference "New Technologies in Mechanical Engineering", Kharkiv, September 04-07, 2024, p. 104

16. Milanov M.V. Modeling of shock drone waves to defeat enemy targets (Text) / M.V. Milanov, A.V. Yelizova, K.O. Rybka, Yu.A. Maleeva, // XIV International Scientific and Technical Conference "Modern Directions in the Development of Information and Communication Technologies and Control Tools". – Baku – Kharkiv – Zhilina, April 24-26, 2024. – P. 32.

Books, Chapters in Collective Monographs:

none

Links to Citation Database Profiles:

https://scholar.google.com/citations?view_op=new_profile&hl=en

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian, English

IT Skills:

Category	Skills / Tools	Level / Experience	Notes / Context
Programming	C/C++, C#, Java, Python, JS, Assembler	Advanced	Courses, research, and large-scale industrial projects





Databases	MS SQL, MySQL, PostgreSQL, MongoDB	Advanced	Research and applied projects
Simulation / Modeling	MATLAB Simulink, AnyLogic, Multisim	Advanced	Courses, research, and industrial projects
Industrial Automation & IoT	PLC programming, IEC 61131, SCADA systems, Raspberry Pi, BeagleBone Black, Arduino, IoT protocols, LoRaWAN	Advanced	Robotics, IoT, industrial automation courses and projects

Social and Community Activities:

1. Organization of events, trainings and information campaigns.
2. Social media promotion.

