Name	Oleksandr Mazurenko
Position, Department/Faculty	Associate Professor of Department of Aerospace Radioelectronic Systems /Faculty of Radio Electronics, Computer Systems and Infocommunications
Academic Degree, Academic Title	Candidate of Technical Science (PhD), Associate Professor
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ResearchGate:	[посилання]

EDUCATION:

Basic education (university, major, year of graduation):
1994-2000 – National Aerospace University “Kharkiv Aviation Institute”, major "Radioelectronic devices, systems and complexes”, 2000 – year of graduation with honor.

Postgraduate/Doctoral studies:
2000-2003 – Postgraduate studies. Dissertation – “Opportunities Extension and Accuracy Increasing of Radio-Engineering Systems of Vessels Piloting on a Waterway by use of Radio-Control Methods”, supervisor – professor Igor V. Baryshev, graduated 2006.

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):
2000-2003 – Research Assistant Digital Signal Processing & Radio-control System Lab., National Aerospace University, Kharkiv, Ukraine, Design algorithms & software for digital signal processing, adaptive algorithms for vessels piloting by use of radio-control methods.
Apr.-Dec. 2003 – Project Manager – FED group, Kharkiv, Ukraine, project “Measuring Bench for Hydraulic Aviation Unit”.
Dec. 2005-Jun. 2006 – Project Manager – Titr Ltd., Kharkiv, Ukraine, project “Control System for Chemical-Engineering System”.
2011-2017 – Team Leader – Design of UAV Lab., Sensors Signal Processing and Design of Embedded System Group, National Aerospace University, Kharkiv, Ukraine, project Autopilot of Mini- and Micro-UAV.
2018-present – Department head – PJSC “JSC research Institute of radio engineering measurements”, Kharkiv, Ukraine. Department of Digital Signal Processing,
projects “Radio links for Aerospace and Earth communications”.

Teaching Experience:
2003-present – Lecturer – National Aerospace University, Kharkiv, Ukraine,

Graduate-level Courses: Applied Approach of Radio Engineering, Control systems theory, Digital and Microprocessor Devices, Information and measuring Radio Systems.

Experience in International or National Projects:
March - Jun. 2009, March - Jun. 2010, Apr. - Jun. 2012, Apr. - Jul. 2014, Apr. - Jul. 2015 – Lecturer – Nanjing University of Aeronautics and Astronautics , Nanjing, China.

RESEARCH ACTIVITIES:

Main Research Areas:
Digital Signal Processing, Design of digital signal processing system based on microcontrollers, digital signal processors and programmable logic devices, Broadband radio communication systems, statistical theory of radio engineering systems.

Number of Publications (Scopus, WoS, others):
42

Participation in Scientific Conferences:
1. 2023 IEEE 13th International Conference on Electronics and Information Technologies (ELIT), Lviv, Ukraine.
2. 2023 IEEE International Conference on Information and Telecommunication Technologies and Radio Electronics (UkrMiCo), Kyiv, Ukraine.
3. 2023 13th International Conference on Dependable Systems, Services and Technologies (DESSERT), Athens, Greece.

TEACHING ACTIVITIES:

Courses Taught:
1. Applied Approach of Radio Engineering.
2. Control systems theory.
3. Digital and Microprocessor Devices.
4. Information and measuring Radio Systems.

INTERNATIONAL ACTIVITIES:

Teaching/Lecturing Abroad:
March - Jun. 2009, March - Jun. 2010, Apr. - Jun. 2012, Apr. - Jul. 2014, Apr. - Jul. 2015 – Lecturer – Nanjing University of Aeronautics and Astronautics , Nanjing, China, Graduate-level Courses: “Fundamentals of aerospace engineering”, “Introduction to the specialty of Radioengineering”.
Jun. 2012 – Lecturer – Nanjing University of Aeronautics and Astronautics , Nanjing, China, Summer School Courses: “Digital and Microprocessor devices”.

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):
1. Nezhalska, K. Belousov, V. Volosyuk, S. Zhyla and O. Mazurenko, "Algorithm for Selecting a Surface Model for Remote Sensing of Earth's Surfaces," 2023 IEEE 13th International Conference on Electronics and Information Technologies (ELIT 2023), Lviv, Ukraine, 2023, pp. 232-236, doi: 10.1109/ELIT61488.2023.10310806.

2. Nezhalska, K.; Mazurenko, O.; Belousov, K. “Analysis of Brightness Temperature Models for Describing Surfaces by Passive Remote Sensing Methods” 2023 IEEE 13th International Conference on Electronics and Information Technologies (ELIT 2023) - Proceedings 2023 | Conference paper, doi: 10.1109/ELIT61488.2023.10310712, EID: 2-s2.0-85179519287, Part of ISBN: 9798350383096.
3. Kolesnikov, S. Zhyla, V. Pavlikov and O. Mazurenko, "Imaging Simulation for Radar with Static Aperture Synthesis Method," 2023 IEEE International Conference on Information and Telecommunication Technologies and Radio Electronics (UkrMiCo), Kyiv, Ukraine, 2023, pp. 192-197, doi: 10.1109/UkrMiCo61577.2023.10380361.
4. Zhyla, A. Popov, E. Tserne, D. Kolesnikov, V. Kosharskyi and O. Mazurenko, "Statistical Synthesis and Analysis of Optimal Direction Finding Algorithms," 2023 13th International Conference on Dependable Systems, Services and Technologies (DESSERT), Athens, Greece, 2023, pp. 1-5, doi: 10.1109/DESSERT61349.2023.10416438.

Language Proficiency:

- Ukrainian, Russian (native speaker);
- German, English (reading and writing).

IT Skills:

Matlab, Pascal, Delphi, MS Office, Assembler (AVR family, Atmel, MSP430 family, Texas Instruments), Object-Oriented Programming, Xilinx Vivado.