

	Name	Mykhailo Zriakhov
	Position, Department/Faculty	Associate Professor of the Department of Inforamtion and Communication technologies
	Academic Degree, Academic Title	Candidate of Technical Sciences, Associate Professor
	Email:	m.zriakhov@khai.edu
	Scopus Author ID:	13104908300
	Web of Science ResearcherID:	OHR-7989-2025
	ORCID iD:	0009-0008-4674-8360
	Google Scholar:	https://scholar.google.com.ua/citations?user=2xFJZgsAAAAJ&hl=ru&cstart=0&pagesize=20
	ResearchGate:	https://www.researchgate.net/profile/Mikhail-Zriakhov/publications

EDUCATION:

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

National Aerospace University – Kharkiv Aviation Institute, Master's degree in «Radioelectronic Devices, Systems, and Complexes», 2004

Postgraduate/Doctoral studies:

Postgraduate study in Remote Aerospace Research

Additional training, certification programs:

Advanced training for teachers, 2024

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

- 2009-2022 An Individual Entrepreneur, Field of Activity:
 - Production of communication equipment;
 - Repair of communication equipment;
 - Research and experimental development in the field of technical sciences;
 - Computer programming.
- 2022-Present Time, Computer Systems Engineer, Software Development and Implementation Department, LLC EPAM DIGITAL

Teaching Experience:

- Teaching activity at the Department of Inforamtion and Communication technologies since 2005 (main place of work)
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RESEARCH ACTIVITIES:

Main Research Areas:

Automatic compression and processing of multichannel data

Number of Publications (Scopus, WoS, others):



Monographs, Textbooks:

5

Participation in Scientific Conferences:

About 25

TEACHING ACTIVITIES:**Courses Taught:**

- "Technologies of continuous integration and development of information systems"
- "Cloud Information Systems"
- "Information transmission and processing technologies in telecommunication systems"
- "Cloud technologies"
- "UNIX-similar operating systems"
- "Operating systems of medical software complexes"
- "Information Systems Administration"

Author Courses, Academic Programs:

- "Technologies of continuous integration and development of information systems"
- "Cloud Information Systems"
- "UNIX-similar operating systems"
- "Information Systems Administration"

Methodological Materials, Textbooks:

- Зряхов, М. С. Теорія лінійних електричних кіл [Електрон. ресурс] : навч. посібник / М. С. Зряхов, І. К. Васильєва, О. С. Рубель. – Харків : XAI, 2022. – 134 с.
- Основи теорії кіл : навч. посіб. до лаб. робіт / М. С. Зряхов, К. М. Нежальська, О. І. Бей ; М-во освіти і науки України, Нац. аерокосм. ун-т ім. М. Є. Жуковського "Харк. авіац. ін-т". - Харків. - Нац. аерокосм. ун-т ім. М. Є. Жуковського "Харків. авіац. ін-т", 2018. - 48 с. - 978-966-662-603-8

PROFESSIONAL ACHIEVEMENTS AND AWARDS:**Membership in Professional Associations:**

Full member of the PUBLIC ORGANIZATION "UKRAINIAN SCIENTIFIC AND EDUCATIONAL IT SOCIETY"

SELECTED PUBLICATIONS:**Key Articles (Scopus, WoS, others):**

- Zriakhov M.S., Krivenko S. S., Lukin V.V., Peculiarities of multispectral image lossy compression, Herald of Khmelnytskyi National University, 2024, Technical sciences №1,



pp. 370-376.

- Mobile deployment of NoiseNet: Noise characteristics assessment in real-world images, 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering, UKRCON Proceedings, Conference paper, DOI: 10.1109/UKRCON.2019.8879797, EID: 2-s2.0-85074954013, ISBN: 9781728138824, Contributors: Tsekhmystro, R.; Rubel, O.; Abramova, V.; Zriakhov, M.; Uss, M.
- Prediction of visual quality for lossy compressed images, Experience of Designing and Application of CAD Systems in Microelectronics, 2019 Conference paper, DOI: 10.1109/CADSM.2019.8779266, EID: 2-s2.0-85070647225, Part of ISSN: 25727591, Contributors: Krivenko, S.; Zriakhov, M.; Kussul, N.; Lukin, V.
- MSE and PSNR prediction for ADCT coder applied to lossy image compression, Proceedings of 2018 IEEE 9th International Conference on Dependable Systems, Services and Technologies, DESSERT 2018, Conference paper, DOI: 10.1109/DESSERT.2018.8409205, EID: 2-s2.0-85050665669, ISBN: 9781538659038, Contributors: Krivenko, S.; Zriakhov, M.; Lukin, V.; Vozel, B.
- MSE prediction in DCT-based lossy compression of noise-free and noisy remote sensing, 14th International Conference on Advanced Trends in Radioelectronics, Telecommunications and Computer Engineering, TCSET 2018 - Proceedings, DOI: 10.1109/TCSET.2018.8336338, EID: 2-s2.0-85047467585, ISBN: 9781538625569, Contributors: Krivenko, S.; Zriakhov, M.; Lukin, V.; Vozel, B.

Books, Chapters in Collective Monographs:

- Lukin, V.V., Zriakhov, M.S. etc. (2024). Methods of Preprocessing and Compression of ECG Signals, Intellectual and Technological Potential of the XXI Century (pp. 70–84). Monographic series “European Science”, Book 33, Part1, Karlsruhe, 2024. DOI: 10.30890/2709-2313.2024-33-00-019

Links to Citation Database Profiles:

- <https://www.scopus.com/authid/detail.uri?authorId=13104908300>
- <https://scholar.google.com.ua/citations?user=2xFJZgsAAAAJ&hl=ru&cstart=0&pagesize=20>

ADDITIONAL INFORMATION:

Language Proficiency:

- Ukrainian – native
- English - B1

IT Skills:

- Deep understanding of cloud solution architecture and design of cloud solutions based on AWS and GCP.
- Deploying and managing Kubernetes clusters (on-premises, AWS EKS, GCP GKE, Azure AKS).
- Configuring Helm Charts for application management.
- Writing and maintaining modular Terraform configurations. Setting up and managing infrastructure in AWS, GCP, and Azure using Terraform.
- Setting up, optimizing, and managing pipelines in GitLab CI/CD, Jenkins, and Bamboo.
- Setting up infrastructure and application monitoring using Prometheus, Grafana, and CloudWatch.



- Experience in working with and creating scripts based on automation languages: Bash, Python.