

Scientist profile Mykola Polishchuk

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Biographical information: I was born on May 23, 1989 in Lutsk, Volyn Region. I have been working at the Lutsk National Technical University since 2014. In 2015, he received the scientific degree of Candidate of Technical Sciences. In 2021, he received the academic title of associate professor of the department of computer engineering and cyber security. Now I work as an associate professor of the Department of Computer Engineering and Security.

Education: master's degree

Period, Organization, Position		Obtained Qualification, Degree, or Diploma
2006-2010	Lutsk State Technical University, bachelor's degree	Bachelor's degree in the specialty "Machines and Equipment for Agricultural Production"
2010-2011	Lutsk National Technical University, master's degree	Master's degree in the specialty "Machines and Equipment for Agricultural Production"
2011-2014	Lutsk National Technical University, postgraduate student	Scientific degree and diploma of candidate of technical sciences in the specialty 05.05.11 "Machines and means of mechanization of agricultural engineering"
2014-2016	Lutsk National Technical University postgraduate education	Specialty: "Computer Systems and Networks", qualification: engineer of computer systems and networks.
2021	Lutsk National Technical University, associate professor	Academic title of associate professor of the Department of Computer Engineering and Cybersecurity

Scientific interests Design of information and technical means based on microcontrollers, technical means of information protection, cryptographic encryption methods, mechatronic and robotic systems.

Scientific and pedagogical activity:

Period	Organization	Position	Type of work
18.11.2014 – 01.09.2016	Lutsk National Technical University	assistant	Teaching and research work
01.09.2016 – 31.01.2020	Lutsk National Technical University	senior lecturer	Teaching and research work
01.02.2020 – until today	Lutsk National Technical University	associate professor	Teaching and research work

Educational disciplines: Computer electronics and circuit engineering. Information security systems. Applied cryptology and steganography. Mechatronic and robotic systems. Distributed systems and high-performance computing.

Knowledge of languages: Ukrainian, English (A2)

Professional awards:

- 1) Acknowledgments of the Department of Education and Science of the Volyn Regional State Administration – 2021
- 2) Diploma of honor of the Volyn Regional Council – 2021
- 3) Acknowledgments of the Ministry of Education and Science of Ukraine – 2021

SELECTED WORKS:

Publications included in Scopus, Web of Science databases:

- 1) Polishchuk, M., Grinyuk, S., Kostiuchko, S., Tkachuk, A., & Savaryn, P. (2023). TESLA SWITCH OF 4 BATTERIES BASED ON THE ARDUINO UNO BOARD. *Informatyka, Automatyka, Pomiary W Gospodarce I Ochronie Środowiska*, 13(3), 111-116. URL: <https://doi.org/10.35784/iapgos.4051>.
- 2) Kostiuchko, S., Polishchuk, M., Zabolotnyi, O., Tkachuk, A., Twarog, B.: The Auxiliary Parametric Sensitivity Method as a Means of Improving Project Management Analysis and Synthesis of Executive Elements. In: Miraz M.H., Southall G., Ali M., Ware A., Soomro S. (eds) *Emerging Technologies in Computing. iCETiC 2021. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering*, vol 395 pp 174-184 Springer, Cham (2021). https://doi.org/10.1007/978-3-030-90016-8_12
- 3) Savaryn, P., Strekha, V., Brych, M., ...Kabak, V., Polishchuk, M. The Original Method of Controlling a Computer Using Distance Sensors. *Proceedings - 16th International Conference on Advanced Trends in Radioelectronics, Telecommunications and Computer Engineering, TCSET 2022*, 2022, pp. 683 – 688. DOI: 10.1109/TCSET55632.2022.9767011
- 4) O. Maksymovych, T. Solyar, A. Sudakov, I. Nazar, M. Polishchuk. Determination of Stress Concentration Near the Holes Under Dynamic Loadings. *Naukovyi Visnyk Natsionalnoho Hirnychoho Universytetu*, № 3. Pp. 19-25. (2021). <https://doi.org/10.33271/nvngu/2021-3/019>

Study guides:

- 1) Hrynyuk S. V., Polishchuk M. M., Melnyk K. V., Tkachuk A. A. *Computer Engineering: an electronic textbook for applicants of the second (master's) level of higher education in the specialty of Computer Engineering*, 2024. Reference No. 24-12, minutes of the meeting of the educational and methodological council of LNTU No. 1 dated 08/28/2024.
- 2) Kaganyuk O.K., Polishchuk M.M., Zdolbitska N.V., Bortnyk K.Ya. *Computer electronics: study guide for students of the first (bachelor's) level of the educational and professional program "Computer engineering" branch of knowledge 12 Information technologies specialty 123 Computer engineering full-time and part-time forms of education*. Lutsk: Lutsk National Technical University, 2020. 224 p.

Membership in scientific societies:

- 1). Member of the Council of Young Scientists of the LNTU.
- 2). Member of the Regional Council of Young Scientists at the Department of Education, Science and Youth of the Volyn Regional Military Administration.

LINK PROFILE:

ORCID ID: <https://orcid.org/0000-0002-1218-5925>

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=57216990585>

GOOGLE SCHOLAR: <https://scholar.google.com.ua/citations?user=aUjr3YEAAA&hl=ru>

RESEARCHGATE: <https://www.researchgate.net/profile/Mykola-Polishchuk-2>

ACADEMIA: <https://independent.academia.edu/PolishchukMykola>