

Scientist profile Kateryna Melnyk

e-mail: ekaterinamelnyk@gmail.com



Biographical information: I was born on June 07, 1976, in the village of Liman, I am married, and I have 1 child. I have been working at the Lutsk National Technical University since 1998. In 2011, he received the scientific degree of Candidate of Technical Sciences. In 2012, I received the academic title of associate professor of the Department of Computer engineering and cyber security. I am currently working as an associate professor in the Department of of Computer engineering and cyber security.

Education: master's degree

Period, Organization, Position		Obtained Qualification, Degree, or Diploma
1993-1998	L. Ukrainka Volyn State University, Specialist's degree	Specialist's degree in the specialty " Mathematician. Mathematics teacher"
2010-2014	L. Ukrainka Volyn State University, postgraduate student	Scientific degree and diploma of candidate of technical sciences in the specialty 01.02.04 – mechanics of a deformable solid body
2012-2021	Lutsk National Technical University, associate professor	Academic title of associate professor of the Department of of Computer engineering and cyber security

Scientific interests: Intelligent data processing, artificial intelligence computer systems, parallel and distributed computing

Scientific and pedagogical activity:

Period	Organization	Position	Type of work
01.09.1998 – 31.08.2012	Lutsk National Technical University	assistant	Teaching and research work
01.09.2012 – until today	Lutsk National Technical University	associate professor	Teaching and research work

Educational disciplines: Big data analysis, Computer systems of artificial intelligence, Parallel and distributed computing, Discrete Math

Knowledge of languages: Ukrainian, English (B2)

SELECTED WORKS:

Monographs:

- 1) Maksymovich V.M., Melnyk K.V. Interaction of a thick plate with a system of smooth dies under unknown contact areas. Monograph. - Lutsk: LNTU, 2013. - 116 p.

Publications included in Scopus, Web of Science databases:

- 1) Melnyk V.M., Bagniuk N.V., Melnyk K.V. The effect of high-performance sockets on the intensity of data processing. // Scientific Journal ScienceRise (Impact Factor DOI: 10.15587/2313-8416.2015.44380). Kharkiv. 2015. VOL. 6, No. 2(11). P. 38-48.

- 2) V. M. Melnyk, P. A. Pekh, K. V. Melnyk, N. V. Bagniuk, O. K. Zhigarevich. Construction and use of an interdomain communication mechanism for high-performance data processing. // Eastern European journal of advanced technologies. – Kharkiv (DOI – Scopus). – 2016. – No. 1/9/79. - with. 10-15.
- 3) V. Melnyk, N. Bahnyuk, K. Melnyk, O. Zhyharevych, N. Panasyuk. Implementation of the simplified communication mechanism in the cloud of high performance computations. East-European journal of Enterprise Technologies. – Kharkiv (Scopus DOI: 10.15587/1729-4061.2017.98896). – 2017. – No. 2/2/86. - p. 24-32.
- 4) 1. V. M. Melnyk, P. A. Pekh, K. V. Melnyk, N. V. Bagniuk, O. K. Zhigarevich. Construction and use of an interdomain communication mechanism for high-performance data processing. // Eastern European journal of advanced technologies. – Kharkiv (DOI – Scopus). – 2016. – No. 1/9/79. - with. 10-15.
- 5) 2. V. Melnyk, N. Bahnyuk, K. Melnyk, O. Zhyharevych, N. Panasyuk. Implementation of the simplified communication mechanism in the cloud of high performance computations. East-European journal of Enterprise Technologies. – Kharkiv (Scopus DOI: 10.15587/1729-4061.2017.98896). – 2017. – No. 2/2/86. - p. 24-32.
- 6) 3. K.V. Melnyk, V.M. Melnyk, A.S. Matsibora Research of content methods of spam recognition. // Scientific journal "Computer-integrated technologies: education, science, production". - Lutsk. – 2018, No. 30-31. - with. 95-100.
- 7) 4. Melnyk K.V., Melnyk V.M., Koptiuk Yu.Yu. Research of image recognition methods based on neural networks. // Scientific journal "Computer-integrated technologies: education, science, production". - Lutsk. – 2019, No. 335. - with. 161-165.
- 8) 5. Maksymovich V.M., Melnyk K.V. Interaction of a thick plate with a system of smooth dies under unknown contact areas. Monograph. - Lutsk: LNTU, 2013. - 116 p.
- 9) 6. V. M. Melnyk, K. V. Melnyk, S. V. Lavrenchuk, I. N. Burchak, O. K. Kaganyuk. The influence of the mechanism of direct search of messages based on TCP protocols on the process of their exchange // Eastern European Journal of Advanced Technologies. – Kharkiv (DOI – Scopus). – 2019. – No. 3/2/99. - with. 36-42.
- 10) 7. Melnyk K.V., Melnyk V.M., Hrygoryshyn A.M. Automatic collection of information (parsing) in the network. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 39. – 2020. – P. 151-156.
- 11) 8. Melnyk K.V., Kostyuchko S.M., Melnyk D.S. Optimizing financial management and analytics using a mobile application based on the Android OS. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 39. – 2020. – P. 157-161.
- 12) 9. Lavrenchuk, S., Melnyk, K., Bagniuk, N., & Pashchuk, V. (2022). Research on methods of calculating distances traveled by sales agents. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 47. - 2022. - P. 35-40.

Study guides:

- 1) Electronic study guide on the discipline "Software engineering" for students of the "Computer engineering" training course of all forms of education. – Compilers: Sholom P.S., Zhigarevich O.K., Melnyk K.V. – Lutsk: Lutsk National Technical University, 2016 (Reference #16-10, protocol #9 dated May 19, 2016).

LINK PROFILE:

ORCID ID: <https://orcid.org/0000-0002-9991-582X>

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

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

SCOPUS : <https://www.scopus.com/authid/detail.uri?authorId=56366911300>