



Scientist profile

Nataliia Cherniashchuk

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Biographical information: I was born on February 16, 1985. I have been working at the Lutsk National Technical University since 2007. In 2012, she received the scientific degree of Candidate of Pedagogical Sciences. In 2013, she received the academic title of associate professor of the Department of Computer Technologies of Vocational Education. In 2018, she received the scientific degree of Doctor of Pedagogical Sciences. In 2020, she received the academic title of associate professor of the Department of Computer Sciences. I have two higher educations: a master's degree in computer engineering and a master's degree in cyber security. Now I work as the head of the department of computer engineering and cyber security.

Education: master's degree

Period, Organization, Position		Obtained Qualification, Degree, or Diploma
2018-2019	Lutsk National Technical University, master's degree	Master of computer engineering
2021-2022	Western Ukrainian National University	Master of Cyber Security
2013	Lutsk National Technical University, associate professor	Academic title of associate professor of the Department of Computer Technologies of Vocational Training
2020	Lutsk National Technical University, professor	Academic title of professor of the Department of Computer Sciences

Scientific interests: computer engineering, cyber security

Scientific and pedagogical activity:

Period	Organization	Position	Type of work
01.09.2007 – 31.08.2013	Lutsk National Technical University	assistant	Teaching and research work
01.09.2013 – 31.08.2018	Lutsk National Technical University	associate professor	Teaching and research work
01.09.2018 – until today	Lutsk National Technical University	professor	Teaching and research work

Educational disciplines: Web programming (Python ma JavaScript), Information security management, Fundamentals of scientific research, IT project management, Social engineering

Knowledge of languages: Ukrainian, English (B2)

Professional awards:

- 1) Certificate of Honor of the Volyn Regional Council - 2015.
- 2) Acknowledgment of the Ministry of Education and Science of Ukraine – 2022.

SELECTED WORKS:

Monographs:

1. N. L. Chernyashchuk Detection of attacks based on compromise marks: monograph / N. L. Chernyashchuk. – Lutsk: Teren, 2022. – 176 p.
2. N. L. Chernyashchuk Information protection technologies in WI-FI networks: monograph / N. L. Chernyashchuk. - Lutsk: Vezha-Druk, 2017. - 144 p.
3. Chernyashchuk N. L. Information technologies in the educational process: monograph / N. L. Chernyashchuk. – Lutsk: Teren, 2017. – 176 p.
4. Chernyashchuk N.L. Laboratory workshop on operations research and mathematical modeling Petro Antonovych Pekh, Nataliya Leonidivna Chernyashchuk, Mykhailo Volodymyrovych Delyavskiy, Nataliya Volodymyrivna Bagniuik - Lutsk: IVV Lutsk National Technical University, 2020. □ 100 p.
5. Chernyashchuk N.L. Quality management technology for the training of future engineers-pedagogues in the conditions of the master's degree of the technical university / N.L. Chernyashchuk, Yu.E. Sachuk Monograph. Lutsk: Teren, 2019. 220 p.
6. Sachuk Yu.E., Chernyashchuk N.L. Formation of social and professional mobility of future informatics teachers in the conditions of the master's degree / Yu.E. Sachuk, N.L. Chernyashchuk Monograph. Lutsk: Teren, 2019. 220 p.

Publications included in Scopus, Web of Science databases:

1. Chernyashchuk N. Elaboration of pyramidal methods applying computation technique «rough-fine» image identification The International Society for Optical Engineering Vol. 11176 (1): 11176-201, 11 pag. <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/browse/volume-number/11000-NOW/11100-11199>. 2019 DOI 10.1117/12.2537179 SCOPUS
2. Chernyashchuk N. Information model for forecasting of violation reparative osteogenesis of long bonds The International Society for Optical Engineering Vol. 11176 (1): 11176-201, 7 pag. <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/browse/volume-number/11000-NOW/11100-11199>. 2019 DOI 10.1117/12.2536250 SCOPUS
3. Chernyashchuk N. (Panasiuk, N.), Melnyk, V., Bahnyu, N., Melnyk, K., & Zhyharevych, O. (2017). Implementation of the simplified communication mechanism in the cloud of high performance computations. Eastern-European Journal of Enterprise Technologies, 2/2 (86), 24–32.
4. Nataliia Chernyashchuk Oleksandr Bezkravnyy, Leonid Kupershtein. The analysis hardware for recording image and video and processing on fpga. The International Society for Optical Engineering Vol. 11176 (1): 11176-201, 11 pag. The International Society for Optical Engineering Vol. 11176 (1): 11176-201, 5 pag. <https://www.spiedigitallibrary.org/conference-proceedings-of-spie/browse/volume-number/11000-NOW/11100-11199>. 2019 DOI 10.1117/12.2536310 SCOPUS
5. Vasyl Melnyk, Olena Kuzmych, Nataliia Bahniuk, Nataliia Chernyashchuk, Liudmyla Hlynchuk, Oksana Mekush. Effective Big Data Analysis Based on Sockets Application to Biomedical Data Processing - Conference Proceedings, 2021 11th International Conference on Advanced Computer Information Technologies, 15-17 September 2021, page 19
6. Kuzmych, O., Chernyashchuk, N., Lishchyna, N., Mekush, O., Gumenyuk, P. Mobile Robot Motion Stability and Optimal Chassi Construction 2021 11th International Conference on Advanced Computer Information Technologies, ACIT 2021 - Proceedings. 141-146
7. Melnyk, V., Kaganyuk O., Kozlenko, M., Chernyashchuk, N., & Shcherbluk, A. (2020). Dependence of the intensity of data processing in the cluster on the performance of sockets without taking into account heterogeneity. COMPUTER-INTEGRATED TECHNOLOGIES: EDUCATION, SCIENCE, PRODUCTION, (40), 128-139. <https://doi.org/10.36910/6775-2524-0560-2020-40-20>
8. Kostyuchko S., Chernyashchuk N., Polishchuk M., Kyrylyuk L., Sakhniuk A. Application of intrusion detection systems. Technical news. 1(51), 2 (52). Lviv, - 2020. P. 81-82.
9. Kostyuchko S., Kyrylyuk L., Chernyashchuk N., Bortnyk K., Hrynyuk S.. Wireless access point with a multi-level data protection algorithm (in English). COMPUTER-INTEGRATED TECHNOLOGIES: EDUCATION, SCIENCE, PRODUCTION, (42), Lutsk, - 2021. P. 128-139. <https://doi.org/10.36910/6775-2524-0560-2021-42>.
10. Bortnyk K.Ya., Delyavskiy M.V., Kuzmych O.I., Bagniuik N.V., Chernyashchuk N.L. The main threats to the security of information systems. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 40. - 2020. - pp. 137-142 (0.75 dr. sheet).

11. Hlynchuk L.Ya., Yatsyuk S.M., Kuzmych O.I., Bagnyuk N.V., Chernyashchuk N.L. Analysis of requirements and methodology for selecting topics for studying the basics of cryptographic information protection. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 40. – 2020. – pp. 16-22 (0.875 dr. sheet)

12. Chernyashchuk N.L., Bortnyk K.Ya., Plevako N.V. Analysis of the study of the functioning of the electronic document circulation information system. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 40. – 2020. – pp. 143-148 (0.75 dr. sheet)

13. Kaganyuk O.K., Chernyashchuk N.L., Podolyak V.M., Bagnyuk N.V., Svyridyuk K.A. Study of static characteristics in the development of a mobile application // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 45. – 2021. – pp. 10-23 (1,625 dr. sheets)

14. Chernyashchuk N.L., Boyko M.V., Chikirda M.V., Savonyuk N.S., Bagnyuk N.V. Optimization of the cluster application deployment process in the Kubernetes system // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 45. – 2021. – pp. 43-50 (1 dr. sheet)

15. Khrystinets, N., Chernyashchuk, N., Miskevich, O., Dovhonyuk, M. (2020). Technologies of hardware virtualization of Intel microprocessors. COMPUTER-INTEGRATED TECHNOLOGIES: EDUCATION, SCIENCE, PRODUCTION, (40), 158-163. <https://doi.org/10.36910/6775-2524-0560-2020-40-24>

Membership in scientific societies:

- 1) 020 – Cisco instructor on the CyberOps course
- 2) 2021 – Cisco instructor for the CCNA Security course

LINK PROFILE:

Google Scholar: <https://scholar.google.com.ua/citations?user=8VWOdz8AAAAJ&hl=uk>

Academia.edu: <https://independent.academia.edu/NataliiaCherniashchuk/Analytics/activity/overview>

NBUV portal: ID: 1465261 <http://irbis-nbu.gov.ua/ASUA/1465261>

ORCID: <https://orcid.org/0000-0002-3178-8377>