

Scientist profile Nina Zdolbitska

Associate Professor

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Biographical information: I was born on January 24, 1982 in the village of Tsuman, Kivertsiv district, Volyn region. I am married, I have 4 children. I have been working at the Lutsk National Technical University since 2004. In 2011, she received the scientific degree of Candidate of Technical Sciences. In 2012, she received the academic title of associate professor of the Department of Computer Engineering. Currently, I am working as an associate professor at the Department of Computer Science.

Education: master's degree

Period, Organization, Position		Obtained Qualification, Degree, or Diploma
1999-2003	Lesya Ukrainka Volyn State University, bachelor's degree	Bachelor's degree in the specialty "Mathematics"
2003-2004	Lesya Ukrainka Volyn State University, master's degree	Qualification master's degree in the specialty "Mathematics"
2014-2015	Lutsk National Technical University, Educational and Scientific Institute of Continuing Education	Qualification of an engineer in computer systems and networks with the specialty "Computer systems and networks"
2011	Lutsk National Technical University,	Scientific degree and diploma of candidate of technical sciences in the specialty 01.02.04 "Mechanics of deformable solids"
2012	Lutsk National Technical University,	Academic title of associate professor of the Department of Computer Engineering

Scientific interests: Design of computer systems and signal processing tools, Design, development and maintenance of software.

Scientific and pedagogical activity:

Period	Organization	Position	Type of work
01.09.2004 – 31.08.2009	Lutsk National Technical University	assistant of the department of Applied mathematics	Teaching and research work
01.09.2009 – 31.08.2011	Lutsk National Technical University	assistant of the department of Computer engineering	Teaching and research work
01.09.2011 – 31.08.2012	Lutsk National Technical University	senior lecturer of the Department of Computer Engineering	Teaching and research work
01.09.2012 – 31.08.2018	Lutsk National Technical University	Associate Professor of the Department of Computer Engineering	Teaching and research work
01.09.2018 – 31.08.2021	Lutsk National Technical University	Associate Professor of the Department of Computer Engineering and Cyber Security	Teaching and research work
01.09.2021 – until today	Lutsk National Technical University	Associate Professor of the Department of Computer Sciences	Teaching and research work

Educational disciplines: Computer discrete mathematics, Theory of algorithms and mathematical image processing, Numerical methods

Knowledge of languages: Ukrainian, English (B2)

SELECTED WORKS:

Monographs:

1) Computer electronics: a 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 study / comp. O.K. Kaganyuk, M.M. Polishchuk, N.V. Zdolbitska, K.Ya. Bortnyk - Lutsk: Lutsk National Technical University, 2020. - 224 p.

Articles in domestic and foreign scientific publications, including those included in Scopus, Web of Science databases:

1) P. Pekh, O. Kuzmych, N. Zdolbitska, N. Bahniuk, I. Pasternak, "Generators of Some Kinds Random Erlang Numbers and Estimation of Their Complexity," 2020 10th International Conference on Advanced Computer Information Technologies (ACIT), Deggendorf, Germany, 2020, pp. 306-310, (Scopus) DOI: [10.1109/ACIT49673.2020.9208831](https://doi.org/10.1109/ACIT49673.2020.9208831).

2) Mykhaylo Delyavskyy, Krystian Rosiński, Nina Zdolbicka, and Oksana Bilash. Macroelement analysis of thin orthotropic polygonal plate resting on the elastic Winkler's foundation //Scientific Session on Applied Mechanics X: Proceedings of the 10th International Conference on Applied Mechanics, – Volume number: 2077 020014 (2019), – Published Online: 21 February 2019, Bydgoszcz, Poland, p. 020014-1-9. (Web of Science).

3) Oleksandr Chemonoh; Lesya Kozbtsova; Igor Kozubtsov; Nyna Zdolbytskaia; Vyktor Kosheliuk; Sergei Sctanenko. Performance indicators of functioning of the information protection and cyber security system of objects of critical information infrastructure // Scientific and Practical Cyber Security Journal (SPCSJ) , Vol 6,№3 - 2022, - S.13-24.: ISSN 2587- 4667 Scientific Cyber Security Association (SCSA).

4) Zdolbitska, N., Delyavskyy, M., Lishchyna, N., Lishchyna, V., Lavrenchuk, S., Sulim, V. (2023). DIY Smart Auxiliary Power Supply for Emergency Use. In: Hu, Z., Zhang, Q., He, M. (eds) Advances in Artificial Systems for Logistics Engineering III. ICAILE 2023. Lecture Notes on Data Engineering and Communications Technologies, vol 180. Springer, pp 382–392

5) Lavrenchuk S.V., Zdolbitska N.V., Hamula N.M. Software complex for visualization of algorithms on graphs. // Bulletin of the Khmelnytskyi National University series: Technical sciences. – Khmelnytskyi, 2021, No. 6. – P. 81-85.

6) Zdolbitska N.V., Melnyk H.M., Melnyk V.M., Koltunovych O.V., Mazurenko V.V. Analysis of the operation of the UART serial protocol using a digital analyzer // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 41. – 2020. – P. 165-173 DOI: <https://doi.org/10.36910/6775-2524-0560-2020-41-04>

7) Zdolbitska N.V., Zdolbitskyi A.P., Semenکو O.O.. Electronic identification systems and user access management / N.V. Zdolbitsky, A.P. Zdolbitsky, O.O. Semenکو. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 36. – 2019. – P. 103-108. DOI: <https://doi.org/10.36910/6775-2524-0560-2019-36-5>

8) Zdolbitska N.V., Zdolbitskyi A.P., Kalinin B.Yu. Computer visual effects system. // Scientific journal "Computer-integrated technologies: education, science, production" - Lutsk: LNTU Publishing House. - Issue 26. - 2017. - P. 183-187

Patents

1) A method of increasing the energy efficiency of the electromagnetic valve control system of automobile gas cylinder equipment. Utility model patent No. 110132 UA Ukraine: H01F 7/18 (2006.01) / Inventors: A.P. Zdolbitskyi N.V. Zdolbitska, Owner: Lutsk National Technical University - No. u 20164 03383; statement 01.04.2016; published 26.09.2016, Bull. No. 18. – 4p.

2) Certificate of copyright registration for the work "Computer program "Arduino - moving web camera project"". Author: Nina Vasylyvna Zdolbitska, Andrii Petrovych Zdolbitskyi. Date of registration: 01.04.2016

3) Certificate of copyright registration for the work "Computer program "MKE calculation module"". Author: Nina Vasylyvna Zdolbitska. Date of registration: 14.12.2010

LINK PROFILE:

ORCID ID: <https://orcid.org/0000-0002-1345-3581>

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=57219595379>

WEB OF SCIENCE Researcher ID: <https://publons.com/researcher/1945701/nina-zdolbitska/>

GOOGLE SCHOLAR: <https://scholar.google.com.ua/citations?user=M86EM8sAAAAJ&hl=uk&authuser=1>

RESEARCHGATE: <https://www.researchgate.net/profile/Nina-Zdolbitska/research>