

Scientist profile

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Name: Nataliia Bahniuk

Position: Associate Professor of the Department of Computer Engineering and Security

Biographical information: Studied at the Lutsk National Technical University and West Ukrainian National University. I have been working at the Lutsk National Technical University since 2002. In 2006, she obtained the scientific degree PhD. Now I work as a Associate Professor of the Department of Computer Engineering and Security.



Education:

Organization	Obtained Qualification, Degree, or Diploma
Lutsk Institute of Human Development of the higher educational institution "Open International University for Human Development "Ukraine"	Bachelor's degree in the specialty « Computer Engineering»
Lutsk National Technical University, specialist's degree	Specialist's degree in the specialty «Computer systems and networks»
West Ukrainian National University	Master's degree in «Cyber security»
Lutsk National Technical University	Master's degree in «Software engineering»
Ternopil Ivan Puluj National Technical University	Scientific degree and diploma of PhD in the specialty «Machines and means of mechanization of agricultural production»

Scientific interests: Computer networks, Information protection and network security, Cloud technologies, Computer systems and networks monitoring systems, Incident handling and response

Scientific and pedagogical activity:

Period	Organization	Position	Type of work
09.2005–01.2006	Lutsk National Technical University	assistant	Teaching and research work
01.2006–11.2010	Lutsk National Technical University	senior lecturer	Teaching and research work
11.2010–until today	Lutsk National Technical University	associate professor	Teaching and research work

Educational disciplines: Computer networks, Cloud technologies, Computer systems and networks monitoring systems, Incident handling and response, Computer network and systems administration

Knowledge of languages: Ukrainian, English

SELECTED WORKS:

Publications included in Scopus, Web of Science databases:

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*. Xapkie (Scopus DOI: 10.15587/1729-4061.2017.98896). 2017. № 2/2/86. p. 24-32.

Olena Kuzmych, Jan Awrejcewicz, Abdel Aitouche, Nataliia Bahniuk. Robust Control for Human Postural Balance: Design and Simulation. \ Publisher: IEEE, Published in: 2018 7th International Conference on Systems and Control (ICSC), DOI: 10.1109/ICoSC.2018.8587836, ISBN: 978-1-5386-8537-2, ISSN: 2379-0067, <https://ieeexplore.ieee.org/document/8587836/metrics#metrics>.

P. Pekh, O. Kuzmych, N. Zdolbitska, N. Bahniuk, I. Pasternak. Generators of Some Kinds Random Erlang Numbers and Estimation of Their Complexity // *IEEEExplore Digital Library (Scopus)*, Published in: 2020 10th International Conference on Advanced Computer Information Technologies (ACIT). DOI: 10.1109/ACIT49673.2020.9208831, ISBN: 978-1-7281-6760-2 <https://ieeexplore.ieee.org/document/9208831>

V. Satsyk, R. Grudetsky, O. Kuzmych, N. Bahniuk, L. Hlynchuk Y. Melnychuk Reduction of Server Load by Means of CMS Drupal // *IEEEExplore Digital Library (Scopus)*, Published in: 2020 10th International Conference

on *Advanced Computer Information Technologies (ACIT)*. DOI: 10.1109/ACIT49673.2S20.9208874, ISBN: 978-1-7281-6760-2. <https://ieeexplore.ieee.org/document/9208874>

Melnyk V., Kuzmych O., Bahniuk N., Cherniashchuk N., Hlynchuk L., Mekush O. *Effective Big Data Analysis Based on Sockets. Application to Biomedical Data Processing / 2021 11th International Conference on Advanced Computer Information Technologies (ACIT) - proceedings. 2021, Page(s):666-671 (0,75 dp.apk) ISBN 978-166541854-6 DOI 10.1109/ACIT52158.2021.9548124* <https://ieeexplore.ieee.org/document/9548124>

N. Bahniuk, O. Linchuk, K. Bortnyk, I. Kondius, K. Melnyk and K. Kondius, "Threats Detection and Analysis Based on SYSMON Tool," *2023 13th International Conference on Dependable Systems, Services and Technologies (DESSERT)*, Athens, Greece, 2023, pp. 1-7, doi: 10.1109/DESSERT61349.2023.10416443

V. Satsyk, O. Reshetylo, L. Markina, N. Khrystynets, N. Bahniuk and Y. Melnychuk, "Modeling of Improved Solar Energy Installation for Efficient Power Systems," *2024 14th International Conference on Advanced Computer Information Technologies (ACIT)*, Ceske Budejovice, Czech Republic, 2024, pp. 688-694, <https://ieeexplore.ieee.org/document/10712532>

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ORCID ID: <https://orcid.org/0000-0002-7120-5455>

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=57219591627>

WEB OF SCIENCE Researcher ID: <https://www.webofscience.com/wos/author/record/H-8899-2018>

GOOGLE SCHOLAR: <https://scholar.google.com.ua/citations?user=Eg15F-EAAAAJ&hl=uk>