

CURRICULUM VITAE

Olena Nechyporuk

Date of birth*27.02.1982

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Education*

National Aviation University

years of study: 1999-2005

Major: control and automation systems

Degree*

Candidate of Technical Sciences, DK No. 054304, decision of the Presidium of the Higher Attestation Commission of Ukraine dated July 8, 2009 (protocol No. 30-08/3), specialty 05.13.06 - Information Technologies.

Doctor of Technical Sciences, DD No. 011827, based on the decision of the Attestation Board dated June 29, 2021, specialty 05.13.06 - Information Technologies.

Academic status *

Associate Professor of the Department of Computerized Control Systems, Certificate 12 DC No. 025672, date of issue 01.07.2011, decision of the Certification Board dated 01.07.2011.

Professor of the Department of Computerized Control Systems, Certificate AP No. 005665, date of issue 20.12.2023, decision of the Certification Board dated 20.12.2023.

<p>Professional work experience* <i>(for the last 10 years)</i></p>	<p>01.09.2005 – 31.08.2021: Associate Professor of the Department of Computerized Control Systems of the National Aviation University</p> <p>01.09.2021 – 30.08.2024: Professor of the Department of Computerized Control Systems of the National Aviation University</p> <p>01.09.2024 – to the present: Head of the Department of Intellectual Cybernetic Systems of the State Non-Commercial Company "State University "Kyiv Aviation Institute"</p>
<p>Management of collective research projects <i>(up to 5 projects in the last 10 years)</i></p>	<p>Scientific supervisor - state budget (departmental) research work No. 26-2024/14.03 on the topic: "Increasing the reliability of digital image processing from an on-board UAV video camera", work period 01.09.2024-30.06.2025.</p>
<p>Major research, scientific and technical accomplishments</p>	<p>1) Laureate of the President of Ukraine Prize for Young Scientists, Decree of the President of Ukraine dated 16.12.2014 No. 936/2014 "On Awarding the Annual Prizes of the President of Ukraine for Young Scientists in 2014" for scientific work: Models and Algorithms for Diagnostics of Technical Objects with Multiple Failures (on the Example of Aircraft Engines), Certificate and Honorary Badge No. 732. https://www.kdpu-nt.gov.ua/uk/content/za-modeli-ta-algorytmy-diagnostuvannya-tehnichnyh-obyektiv-z-mnozhyhnyh-vidmovamy-na</p> <p>2) Nechyporuk O.P., Volovyk I.A., Beilinov D.O. Computer Game "Robot" (version 1.0). Author's Certificate. A.s. No. 64260; Application. 12/23/2015; Publ. 02/29/2016 12 p.</p> <p>3) Nechyporuk O.P., Velichenko E.O., Marchenko N.B. Visual display of statistical data ("BPV"). Author's certificate. A.s. No. 66844; Application. 05/19/2016; Publ. 07/21/2016 8 p.</p> <p>4) Lytvynenko O.E., Nechyporuk O.P., Kulichenko D.V. Sequence of random numbers with uniform distribution ("SNUD"). Author's certificate. A.s. No. 65470; Application. 03/21/2016; Publ. 05/23/2016 10 p.</p> <p>5) Laureate of the Cabinet of Ministers of Ukraine Award in the nomination for scientific achievements, Order No. 536-r dated June 15, 2011.</p>
<p>Selected research publications <i>(up to 5 publications)</i></p>	<p>1. Shknai O., Sova O., Nechyporuk O., Nalapko O., Buyalo O., Lyashenko A. A set of methods for enhancing the efficiency of information processing in intelligent decision support systems. Decision support systems: mathematical support: collective monograph. 2025, Kharkiv: TECHNOLOGY CENTRE PC, pp. 62-94. DOI: https://doi.org/10.15587/978-617-8360-13-9.ch3 (Scopus)</p> <p>2. Litvinenko O.E., Nechyporuk O.P. Logical-mathematical methods for diagnosing complex systems: monograph. K.: Publishing house of LLC "Artmedia Print". 2016. 165 p.</p>

3. Alkhafaji M., Kuchuk N., Nechyporuk O. et al. The development of a method for increasing the reliability of the assessment of the state of the object. Eastern-European Journal of Enterprise Technologies, ISSN 1729-3774, 2024. 5/3 (131). pp. 48-54
4. Shyshatskyi A., Nechyporuk O., Kuchuk N. et al. Development of a solution search method using an improved monkey algorithm. Eastern-European Journal of Enterprise Technologies, ISSN 1729-3774, 2023. Vol. 5, Issue 4(125). P. 17-24.
5. Sova O., Shyshatskyi A., Nechyporuk O. et al. Development of a method of complex analysis and multi-dimensional forecasting of the state of intelligence objects. Eastern-European Journal of Enterprise Technologies, ISSN 1729-3774, 2023. Vol. 2/4 (122). P. 31-41.

Selected conferences papers and presentations

(up to 5 items)

1. Olha Suprun, Oleksandr Provotar, Oleh Suprun, Olena Nechyporuk, Victoriia Lukashenko, Nataliia Zhuravel. Development of a modified steganographic model of data transmission using IPv6 protocol. Proceedings of the Third International Conference on Cyber Hygiene & Conflict Management in Global Information Networks (CH&CMiGIN 2024), Kyiv, Ukraine, January 24-27, 2024. P. 35-46. <https://ceur-ws.org/Vol-3925/papero4.pdf>
2. Shyshatsky A.V., Nechyporuk O.P., Nalapko O.L., Symonenko O.A., Velichko V.P. Development of a methodology for complex analysis and multidimensional forecasting of the state of intelligence objects. Information activity as a component of science development: proceedings of the 13th International scientific and practical conference. (Canada, 04-07 April 2023). 2023. Edmonton (Canada), 2023. P. 533-542.
3. Nechyporuk O.P., Kashkevich S.O. Analysis of methods for increasing the noise immunity of unmanned aerial vehicle channels. Theoretical and applied aspects of the development of science: proceedings of the XVIII International Scientific and Practical Conference (Bilbao, May 09-12, 2023). Bilbao (Spain), 2023. P. 474-477.
4. Marchenko N., Nechyporuk O., Suprun O. et al. Methods of designing adaptive systems of multilevel monitoring and diagnosis for recognition and forecasting of technological condition of complex technical objects. Advanced Trends in Information Theory (ATIT): proceedings of the IEEE 3rd International Conference (Kyiv, 15-16 December 2021). 2021. P. 290-293.
5. Nechyporuk O., Nechyporuk V., Kashkevich I-F. et al. Identification of combinations of faults in multilevel information systems. Proceedings of the 16th IEEE International Conference on the Perspective Technologies and Methods in MEMS Design. (Lviv, April 22-26, 2020). Lviv, 2020. P. 76-81.

<p>Participation in organizing committees for academic events</p> <p><i>(up to 5 items the last 10 years)</i></p>	<p>Deputy Chairman of the Organizing Committee of the International Scientific and Technical Conference "Intelligent Technologies of Linguistic Analysis", October 23-24, 2024.</p> <p>https://ccs.nau.edu.ua/activity/conferences/lingvo/org_committee</p>
<p>Membership in editorial boards of academic journals (peer reviewed)</p> <p><i>(up to 5 items)</i></p>	<p>1) Member of the editorial board of the scientific journal "Scientific Technologies", section "Information Technologies, Cybersecurity". The publication is included in the "List of scientific professional publications of Ukraine, in which the results of dissertations for the degrees of Doctor and Candidate of Sciences may be published" Category "B". https://jrnl.nau.edu.ua/index.php/SBT/about</p> <p>2) Member of the editorial board of the scientific journal "Technical Engineering", section Information Technologies. The publication is included in the "List of scientific professional publications of Ukraine, in which the results of dissertations for the degrees of Doctor and Candidate of Sciences may be published" Category "B". http://ten.ztu.edu.ua/</p>
<p>Editing (compiling) academic publications of research publications</p> <p><i>(no more than 5 positions in the last 10 years)</i></p>	<p>Member of the editorial board of the collection of abstracts of the scientific roundtable "Development of information technologies in the aviation industry", dedicated to the 90th anniversary of the National Aviation University, April 2023.</p> <p>https://drive.google.com/file/d/1iL6gUVnncZAc_iN3VvQuGNQ17YGzUqt/view</p>
<p>Educational activity</p>	<p>Teaching Experience:</p> <p>Parallel Programming</p> <p>Information Systems Design Technologies</p> <p>Intelligent Information Retrieval Systems</p> <p>Artificial Intelligence Systems</p> <p>System Analysis and Simulation Modeling</p>
<p>Honors and awards</p>	<p>Honorary Diploma of the Ministry of Science, Technology and Innovation of Ukraine, Order No. 315 dated July 11, 2010.</p> <p>Certificate of the Faculty of Computer Science and Technology, 2024.</p>
<p>Cooperation, including international</p> <p><i>(up to 5 positions in the last 10 years)</i></p>	<p>Participation in the Second Level University Master's Degree program in "THERESA - digital technologies for the security of critical infrastructures" at the University of Salento (University of Salento, Lecce, Italy) within the framework of a memorandum of cooperation.</p> <p>Member of the Scientific Cybersecurity Association of Ukraine</p>

Foreign language
proficiency*

English, B2