



Pryazovskyi State Technical University



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RESEARCHER DATA

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SCIENTIFIC INTERESTS / RESEARCH AREAS

Mathematical and computer modeling of systems and processes

Data Analysis

Big Data

Differential Equations

Crisp and fuzzy sets theory

ACADEMIC DISCIPLINES

Discrete Mathematics

Methods of data preparation and computer processing

Modern software for modeling and business processes reverse engineering

Theory of automats and optimal control in computer systems

Theory of algorithms

Algorithms and methods of experimental data processing

Modeling and analysis of dynamic processes

Fuzzy sets theory in models of management and artificial intelligence

EDUCATION

2003 – Post-Graduate Study

ACADEMIC TITLES

2005 – Associate Professor– Department of Informatic in Pryazovskyi State Technical University



Pryazovskiy State Technical University

PROFESSIONAL AND CAREER INFORMATION (THE LAST 5 YEARS)

2008 – Philosophy Doctor Degree obtained, Ph.D.

Associate Professor, Department of Informatic at Pryazovskiy State
Technical University

OTHER POSITIONS AND ACTIVITIES

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CERTIFICATION TRAININGS (FOR THE LAST 5 YEARS)

1. Internship at the Department of Informatic at Pryazovskiy State Technical University area of knowledge «Management and Administration», on the theme: «Management course» from 18.03.2019 to 29.01.2020, order by № III 02070812/001131-20. (6 credits / 180 hours).
2. Extract from the record of the meeting of the Academic Council from 24.01.2022 №7, about advanced training certificate of attendance in III international scientific and practical conference “Scientific trends and trends in context of globalization” (abstract «Modelling of dynamic processes of piston compressor using MATHCAD») duration 18 hours (0,6 ECTS credits), which was organized on 21–22 December 2021 in Umeo, Kingdom of Sweden.
3. Extract from the record of the meeting of the Academic Council from 06.12.2021 №5 about advanced training certificate of attendance in I International scientific and practical conference “Concepts of Development of Scientific potential of society”, (abstract "Software development for modelling of processes in cold sheet rolling using React technologies), duration 18 hours (0,6 ECTS credits), which was organized on 21.11.2021 to 22.11.2021 in Prague, Czech Republic.
4. Extract from the record of the meeting of the Academic Council from 30.11.2020 №4, about advanced training certificate of attendance in from 26.09.2020, certificate of attendance XV international scientific and technical conference IEEE 2020, Computer Science and Information Technologie. Section: Mathematical modelling, Lviv, Ukraine (1 ECTS Credit).
5. Extract from the record of the meeting of the Academic Council from 21.09.2020 №2, about advanced training certificate of attendance 07.04.2020, Melbourne, Australia, international scientific and technical conference "Theoretical base of modern science and practice".
6. Extract from the record of the meeting of the Academic Council from 05.09.2022 №1, about advanced training certificate of attendance in training «Working with Telegram» duration 2 hours (0,06 ECTS credits), which was organized as a part of USAID project «Economical support of Eastern Ukraine» 21-29th June 2022



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7. Extract from the record of the meeting of the Academic Council from 26.12.2022 №5, about advanced training certificate of attendance in training certificate №216 of attendance in XVII International scientific and technical conference «Computer science and information technologies» (IEEE CSIT 2022) (1 ECTS credit), which was organized on 10-12th November 2022 at Institute of Computer science and Information Technologies at National University «Lviv Polytechnics» (Lviv).

8. Extract from the record of the meeting of the Academic Council from 26.12.2022 №5, about advanced training certificate of attendance IV Ukrainian-wide conferences for young scientists «Current issues of Information technologies» duration 6 hours (0,2 ECTS credits), which was organized on 24th November 2022 at Pryazovskiy State Technical University (Mariupol-Dnipro, Ukraine).

9. Extract from the record of the meeting of the Academic Council from 26.06.2023 №12, about advanced training certificate of attendance, certificate of attendance of workshop «How ChatGPT can assist on creating curriculum or educational trajectory» duration 1,5 hours (0,05 ECTS credits), which was organized on 20 June 2023 by IT-company Genesis.

10. Extract from the record of the meeting of the Academic Council from 25.09.2023 №12, about advanced training, certificate of attendance in XXXIV Scientific and practical conference “Science, Latest Trends, Modern Problems and Improvement of Theories” duration 24 hours (0,8 ECTS credits), which was organized on 29 August – 1 September 2023 p. International Science Group (Warsaw, Poland).

11. Extract from the record of the meeting of the Academic Council from 30.10.2023 №3, about advanced training, certificate of attendance in IV International scientific and practical conference “The world of modern technologies and inventions” duration 24 hours (0,8 ECTS credits), held on 10-13th October 2023 by International Science Group in Wien (Austria).

12. Extract from the record of the meeting of the Academic Council from 18.12.2023 №12, about advanced training certificate of attendance in XIII International scientific and practical conference “Development trends and improvement of old methods” in volume of 24 hours (0,8 ECTS credits), held on 12-15 December 2023 International Science Group (Warsaw, Poland).

13. Extract from the record of the meeting of the Academic Council from 18.12.2023 №12, about advanced training certificate of attendance in V Ukraine-wide conference for young scientists «Current issues of information technologies development» duration 6 hours (0,2 ECTS credit), held on 22 November 2023 at Pryazovskiy State Technical University (Dnipro, Ukraine).

14. Extract from the record of the meeting of the Academic Council from 29.01.2024 №6, about advanced training certificate of attendance in XIV International scientific and practical conference “World trends, realities



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and accompanying problems of development” in volume of 24 hours (0,8 ECTS credits), held on 19-22 December 2023 p. by International Science Group (Copenhagen , Denmark).

15. Extract from the record of the meeting of the Academic Council from 29.01.2024 №6 about advanced training certificate of attendance in III International scientific and practical conference “Technologies in education in schools and universities” in volume of 24 hours (0,8 ECTS credits) held on 23-24 January 2024 by International Science Group (Athens, Greece).

16. Extract from the record of the meeting of the Academic Council from 15.04.2024 №9, about advanced training certificate of attendance in XVIII International scientific and practical conference «Computer science and information technologies» (IEEE CSIT 2023) (1 ECTS credit), held on 19-21 October 2023 by Computer science and information technologies institute of National university “Lviv Polytechnics” (Lviv, Ukraine).

17. Extract from the record of the meeting of the Academic Council 13.05.2024 №10, about advanced training certificate of attendance in XVII International scientific and practical conference “The latest technologies in the development of science, business and education” in volume of 24 hours (0,8 ECTS credit) held on 30 April – 3 May 2024 by International Science Group (London, UK).

18. Extract from the record of the meeting of the Academic Council 21.10.2024 №3, about advanced training certificate of attendance in IV International scientific and practical conference “Science, technology, innovation: global trends and regional aspect” in volume of 24 hours (0,8 ECTS credit) held on 24 – 27 September 2024 by International Science Group (Talinn, Estonia).

19. Extract from the record of the meeting of the Academic Council 13.05.2024 №10, about advanced training certificate of attendance in VI International scientific and practical conference “The role of innovations in the transformation of the image of modern science” in volume of 24 hours (0,8 ECTS credit) held on 08 – 11 October 2024 by International Science Group (Oslo, Norway).

20. Extract from the record of the meeting of the Academic Council 20.01.2025 №6, about advanced training certificate of attendance in XIV International scientific and practical conference “The latest technologies in scientific activity and the educational process” in volume of 24 hours (0,8 ECTS credit) held on 03 – 06 December 2024 by International Science Group (Portu, Portugal).

PARTICIPATION IN INTERNATIONAL PROJECTS

LANGUAGES

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Native Language: Russian; Ukrainian
Foreign Languages: German



PUBLICATIONS

Загальна кількість: понад 70

1. Kukhar V., Balalayeva E., Tuzenko O.: Development of Software for Billet Barreling Predicting at the Desing of Metalforming Processes Based on Pre-Upsetting. International Scientific and Technical Conference on Computer Sciences and Information Technologies, 2022, 1, pp. 462–465 (Scopus, DOI: 10.1109/CSIT56902.2022.10000479).
<https://ieeexplore.ieee.org/document/10000479>
2. Balalayeva E., Tuzenko O., Kukhar V., Lazarevska Y., Sidun N. Computer Simulation of Metal Grain Recrystallization on the Basis of Data Analysis Methods. International Scientific and Technical Conference on Computer Sciences and Information Technologies, 2021, 1, pp. 198–201 (Scopus, DOI: 10.1109/CSIT52700.2021.9648750).
<https://ieeexplore.ieee.org/document/9648750>
3. Tuzenko O. Sagirov I., Balalayeva E. Mathematical and Computer Modeling of the Work of the Grain Terminal of Mariupol Commercial Sea Port. International Scientific and Technical Conference on Computer Sciences and Information Technologies, 2020, 1, pp. 411–414, 9322029 (Scopus, DOI: 10.1109/CSIT49958.2020.9322029).
<https://ieeexplore.ieee.org/document/9322029>
4. Olga Tuzenko, Nataliia Sidun. Mathematical modeling of ecological observations data using time series analysis methods. In 18th IEEE International Conference on Computer Science and Information Technologies, CSIT 2023, Lviv, Ukraine, October 19-21, 2023. pages 1-4, IEEE, 2023. (Scopus, DOI: 10.1109/CSIT61576.2023.10324166).
<https://ieeexplore.ieee.org/document/10324166/authors#authors>
5. Modeling and Re-engineering of Business Processes of Catering Institutions Using Comprehensive System Assessment Methods and Mass Service Theory / O. Tuzenko, E. Balalaeva, O. Lapshchun // Science and Production. – 2023. – Vol. 25. – P. 64-75. – DOI: <https://doi.org/10.31498/2522-9990252023286708>.

H-INDEX

H-index (Scopus): 2 (8 articles)

DATE OF FILLING

23.01.2025 p