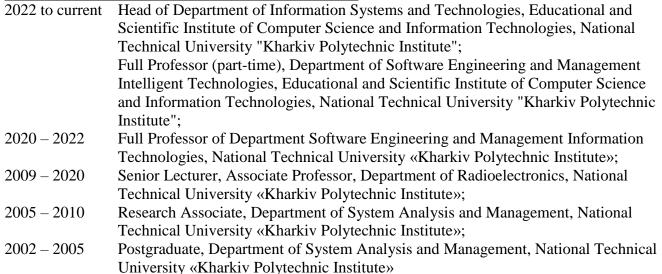
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PROFESSIONAL AND ACADEMIC POSITIONS:



EDUCATION:

D.Sc. (Engineering Science) (September, 2020) National Technical University «Kharkiv Polytechnic Institute», Kharkiv, Ukraine

Specialization: Information Technologies

Ph.D. (Engineering Science) (April, 2009) National Technical University «Kharkiv Polytechnic Institute», Kharkiv, Ukraine

Specialization: Automation of Control Processes

Specialist Degree (Applied Math, 6 years, Honors Diploma) (February, 2002) National Technical University «Kharkiv Polytechnic Institute», Kharkiv, Ukraine Concentrations: Applied Math

COURSES TAUGHT

Extensive teaching at all university levels: Bachelor/Master/PhD:

- Algorithmization and programming,
- Numerical methods (Ukrainian language),
- Object-oriented programming (Ukrainian),
- Operations Research (Ukrainian),
- Intelligent control systems and knowledge base (Ukrainian),
- Distributed Computing (Ukrainian),
- Fundamentals of scientific research.



FIELDS OF RESEARCH INTEREST:

- Simulation of dynamic systems;
- Identification of dynamic systems;
- Optimization of control dynamic systems;
- Software for modeling and optimization methods.

SUMMARY OF CAREER ACHIEVEMENTS

- Prepared and published more than 100 research papers, textbooks in Engineering and Information Technologies Management (h-index = 5, i10-index = 1 in Google Scholar https://scholar.google.com/citations?hl=en&user=ZEe2GlcAAAAJ&view_op=list_works&sortby=title; ORCID ID is https://orcid.org/0000-0003-2938-4215)
- Head of the initiative research work of the Ministry of Education and Science of Ukraine on the topic "Development of methods and algorithms for multi-objective optimization of electronic and automatic systems" (No. DR 0118U002008) (2018-2019).
- Responsible executor of the initiative research works of the Ministry of Education and Science of Ukraine on the topics "Development of mathematical models of automatic control systems of a nuclear power unit for the analysis of power unit maneuverability" (No. DR 0118U002009) and "Development of methods of multicriteria analysis and synthesis of automatic control systems of energy processes" (No. DR 0118U002010) (2018-2019).
- Responsible executor of the initiative research work of the Ministry of Education and Science of Ukraine on the topic "Development of a set of models for controlling dynamic systems under conditions of uncertainty" (No. DR 0121U108872) (2021-2022).
- Guarantor of the educational and professional program "Information Systems Software", second (master's 1.4) level
- Expert of the National Agency for Higher Education Quality Assurance (https://naqa.gov.ua/).
- Participation in international projects:
- Erasmus+ "DIGI-WOMEN, digital entrepreneurship tools and support for women entrepreneurs" Program of the European Union (Agreement No. 2020-1-BG01-KA204-079272).
- Member of the Specialized Academic Council of NTU "KPI" for the award of the degree of Doctor of Science D 64.050.20 in the specialty 05.13.06 "Information Technology"

PROFESSIONAL MEMBERSHIPS:

- Member of the of the public organization "Ukrainian Scientific and Educational IT Society" (2020 to present)

RELATED PUBLICATIONS

Papers

- 1. Development of a nonlinear model of a nuclear power plant steam generator for information technology of control optimization / O. M. Nikulina, V. P. Severin, A. I. Bubnov, O. M. Kondratov // Bulletin of NTU "KhPI". Series: System analysis, management and information technology Kharkiv: NTU "KHPI", 2022. No. 1 (7). PP. 21-27.
- 2 Nikulina Olena, Severin Valeriy, Kotsiuba Nina Parametric synthesis of control systems for the steam generator of a nuclear power plant // Eastern-Europe Journal of Enterprise Technoogies/ Volume 1, Issue 2-115, P 77-84, 2022 Included in the Scopus.
- 3. Moskalenko V., Fonta N., Grinchenko M., Nikulina, E., Yershova S. Information technology of determining the company's financial condition for the financial planning subsystem of the EPM system

Radioelectronic and computer systems: NAU "KhAI", 2022. - No. 2. - P. 83-96. - Included in the Scopus.

- 4. Modeling of thermal processes of a nuclear power plant steam generator for information technology of control optimization / O. M. Nikulina, V. P. Severin, N. V. Kotsiuba, A. I. Bubnov // Bulletin of NTU "KhPI". Series: System analysis, management and information technology: NTU "KHPI", 2021. No. 1 (5). PP. 56-61.
- 5. Development of information technology for optimizing the management of complex dynamic systems / O. M. Nikulina, V. P. Severin, N. V. Kotsiuba // Bulletin of NTU "KhPI". Series: System analysis, management and information technology: NTU "KHPI", 2020. No. 2 (4). PP. 63-69.