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PROFESSIONAL AND ACADEMIC POSITIONS:

2022 to current Associate Professor, Department of Software Engineering and Management Intelligent Technologies (before 2022 – Department of Software Engineering and Management Information Technologies), Educational and Scientific Institute of Computer Science and Information Technologies (before 2022 – Faculty of Computer Science and Software Engineering), National Technical University "Kharkiv Polytechnic Institute";

2009 – 2021 Senior Lecturer, from 2018 Associate Professor, Department of Sciences and Humanities, Kharkiv National Automobile and Highway University;

2003 – 2009 Researcher, Scientific Research Centre of integrated electronic systems and technologies, Kharkiv National University of Radioelectronics.

EDUCATION:

Ph.D. (Technical) (December, 2016) Kharkiv State Polytechnic University, Kharkiv, Ukraine
Specialty: Information Technologies

Specialist Degree (Applied Mathematics, 5 years) (June, 1987) Kharkiv Institute of Radioelectronics, Kharkiv, Ukraine

COURSES TAUGHT

- Practical Seminar on Mathematical Methods in Software Engineering (in English and in Ukrainian),
- Algorithms and Data Structures (in English and Ukrainian),
- Computer Mathematics (in English and Ukrainian),

FIELDS OF RESEARCH INTEREST:

- Analysis of Algorithms and Data Structures
- Computer Mathematics
- Information Technologies

SUMMARY OF CAREER ACHIEVEMENTS

Prepared and published more than 45 research papers, training manuals and textbooks

RELATED PUBLICATIONS

Papers

- Solonska S., Zhyrnov V. Adaptive semantic analysis of radar data using fuzzy transform. *Data-Centric Business and Applications. Lecture Notes on Data Engineering and Communications Technologies*, vol 48. Springer, Cham, 2020, pp. 157-179.
- Zhyrnov V., Solonska S. Intelligent system for detection of low-visible air objects in surveillance radars. *Telecommunications and Radio Engineering*, Begell House Inc., 2020, 79(17), pp. 1513–1519.
- Zhyrnov, V., Solonska, S. Symbolic model of radar images when detecting aircraft. *Telecommunications and Radio Engineering*, 2022, 81(2), pp. 25–35.
- Solonskaya S., Zhyrnov V. Intelligent analysis of radar data based on fuzzy transforms *Telecommunications and Radio Engineering*, Begell House Inc., 2018, 77(15), pp. 1321-1329.
- Solonskaya S., Zhyrnov V. Signal processing in the intelligence systems of detecting low-observable and low-doppler aerial targets. *Telecommunications and Radio Engineering*, Begell House Inc., 2018, 77(20), pp. 1827-1835.
- Zhyrnov V., Solonska S. Process knowledge about observed objects in intellectual monitoring systems. *Telecommunications and Radio Engineering*, Begell House Inc., 2020, 79(18), pp. 1599–1607.
- Shubin, I., Solonska, S., Snisar, S., Zhyrnov, V., Slavhorodskyi, V., & Skovorodnikova, V. (2020). Efficiency Evaluation for Radar Signal Processing on the Basis of Spectral-Semantic Model. *2020 IEEE 15th International Conference on Advanced Trends in Radioelectronics, Telecommunications and Computer Engineering (TCSET)*, 171-174.
- Zhyrnov, V., Solonska, S. (2020). Formal Representation of Information Processing in Intelligent Surveillance Radar Systems. *2020 IEEE International Conference on Problems of Infocommunications. Science and Technology (PIC S&T)*, 269-274.