

Candidate supervisor's information summary form

Ihor Atamaniuk

Name and surname, degree, title: Ihor Atamaniuk habilitated doctor, professor of Warsaw University of Life Sciences	
Academic discipline/disciplines	Technical Informatics and Telecommunications
Professional development (degrees and titles) in chronological order	Habilitated doctor (Poland), professor (Ukraine)
Most important publications/ patents in the last 3 years (maximum 10)	1) Concept of express monitoring of the state's financial security. // Industrial Simulation Conference'2024 / Geril Philippe, Bhonsale Satyajee (red.), 2024, Valencia, EUROSIS-ETI, pp. 24-29. 2) Computational method of the cardiovascular diseases classification based on a generalized nonlinear canonical decomposition of random sequences. // Scientific Reports, 13(1), 59, 2023. 3) Forecasting of Winter Wheat Yield: A Mathematical Model and Field Experiments. // Agriculture (Switzerland), 13(1), 41, 2023 4) Reliability Control of the Technical Systems based on Canonical Decomposition of Random Sequences. Monograph "Recent Developments in Automatic Control Systems", River Publishers Series in Automation, Control and Robotics, 2022. 5) Machine Learning Techniques for Increasing Efficiency of the Robot's Sensor and Control Information Processing. // Sensors, 2022, 22(3), 1062.
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	Sadridinova R.Sz. (academic degree - doctor, Special Academic Council D 38.806.01 Ukraine), Pogrischuk G.B. (academic degree - habilitated doctor, Special Academic Council D 38.806.01 Ukraine)
Achievements in the area of projects/grants (in the last 5 years)	1. Innovative energy-saving technologies in irrigated agriculture systems in post-war recover (2023-2025). Kierownik. 2. Development of technology for forecasting meat and dairy productivity of farm animals on the basis of multidimensional information and statistical methods. №0121U109492 (2021-2022). Head of the project. 3. Increase of meat productivity of pigs and sheep's on the basis of innovative technological and breeding solutions. №0119U001042 (2019-2021). Responsible executor.

	4. Application of innovative integrated technologies of feeding of field crops in the crop rotation of steppe Ukraine (2016-2019). Executive in charge. 5. Model-Oriented Approach and Intelligent Knowledge-Based System for Evolvable Academia-Industry Cooperation in Electronic and Computer Engineering, 544497-TEMPUS-1-2013-1-UK-TEMPUS-JPHES (2013-2016). Responsible executor. 6. Theoretical bases of construction and methods of real-time implementation of dynamic mathematical models of the state change of complex objects, № 0114U002772 (2012-2014). Responsible executor.
Subject area of the research project for which the candidate student is being recruited	Modeling, recognition, extrapolation of random functions and sequences (practical applications)
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