

Candidate supervisor's information summary form

maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: Ihor Atamaniuk, habilitated doctor	
Discipline/ disciplines of science	Technical Informatics and Telecommunications
Professional development (degrees and titles) in chronological order	Habilitated doctor (Poland), professor (Ukraine)
Most important publications/patens over the last 3 years (maximum 10)	<p>1) 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.</p> <p>2) Machine Learning Techniques for Increasing Efficiency of the Robot's Sensor and Control Information Processing. Sensors, 2022, 22(3), 1062.</p> <p>3) Identification of the Optimal Parameters for Forecasting the State of Technical Objects Based on the Canonical Random Sequence Decomposition. Proceedings of 11th IEEE International Conference on Dependable Systems, Services and Technologies, DESSERT'2020, 14-18 May, 2020, Kyiv, Ukraine, pp. 259-264.</p> <p>4) Paradigm changes that strengthen the financial security of the state through fintech development. Proceedings of 11th IEEE International Conference on Dependable Systems, Services and Technologies, DESSERT'2020, 14-18 May, 2020, Kyiv, Ukraine, pp. 110-116.</p> <p>5) Algorithm of Pre-whitening on the Basis of the Polynomial Canonical Expansion of Random Sequences. Proceedings of 2020 IEEE 15th International Conference on Advanced Trends in Radioelectronics, Telecommunications and Computer Engineering (TCSET-2020), February 25-29, 2020, Lviv-Slavsk, Ukraine.</p>
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Sadridinova R.Sz. (academic degree - doctor, Special Academic Council D 38.806.01), Pogrischuk G.B. (academic degree - habilitated doctor, Special Academic Council D 38.806.01)
Project/grants achievements (from the last 10 years)	1. Development of technology for forecasting meat and dairy productivity of farm animals on the basis of multidimensional

	<p>information and statistical methods. №0121U109492 (2021-2022). Head of the project.</p> <p>2. Increase of meat productivity of pigs and sheep's on the basis of innovative technological and breeding solutions. №0119U001042 (2019-2021). Responsible executor.</p> <p>3. Application of innovative integrated technologies of feeding of field crops in the crop rotation of steppe Ukraine (2016-2019). Executive in charge.</p> <p>4. 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.</p> <p>5. 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.</p>
<p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p>	<p>Modeling, recognition, extrapolation of random functions and sequences (practical applications)</p>
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