Potential scientific supervisors: Engineering and technology

№	Full name	University	Field of study	Link to portfolio
1	Dmitry Gerasimov	ITMO University	1. Adaptive and robust control 2. MIMO systems 3. Systems identification 4. Delayed plants underactuated systems 5. Nonlinear control of plants with violation of matching conditions 6. Systems modelling	https://aspirantura.itmo.ru/?main=43&page=864
2	Erisov Yaroslav	Samara University	1. The constitutive equations of plasticity theory of orthotropic, including transtropic, media, which explicitly take into account such structural parameters of the material as the elastic constants of the crystal lattice and the crystallographic texture, as well as special cases for plane stress and strain states and simplified linearized form are developed. 2. Mathematical models for constructing theoretical forming limit curves of sheet metal during forming, taking into account the crystallographic orientation of the blank structure. 3. Equations and ratios that allow, in a theoretical analysis of the processes of drawing, bending and stretch-wrap forming, to determine the optimal crystallographic orientation of the structure of the blanks. The results of the analysis of the influence of typical crystallographic orientations of aluminum alloys on the anisotropy, yield strength, as well as on the behavior and limit strains of sheet blanks during plastic forming. 4. Mathematical and computer models for calculating the influence of the crystallographic orientation of the structure of the metal base on the operational characteristics of metal-matrix and metal-polymer composite materials. Results of the analysis of the influence of typical crystallographic orientations of an aluminum alloy matrix on the tensile strength of a fibrous composite material, fracture toughness and ultimate load bearing capacity of a metal-polymer composite material of the	https://ssau.ru/files/priem_doc/postgraduate/ErisovYA_eng.pdf

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			GLARE type. 5. Evolution of the crystallographic orientation of the structure and its relationship with mechanical and technological properties in the manufacture of sheet semi-finished products from advanced aluminum alloys of the Al-Li (1424 and V-1461) and Al-Mg-Sc (V-1579) systems.	
3	Yuri V. Filatov	Saint Petersburg Electrotechnical University "LETI"	Development of precision laser goniometric systems for measuring the angular position of objects kinematically unconnected to the measuring system. Development of waveguide micro-optical gyroscopes using phase characteristics.	https://etu.ru/assets/files/oda/struktura-portfolio-pnr-angl-filatov.pdf
4	Elena B. Solovyeva	Saint Petersburg Electrotechnical University "LETI"	Research of neural networks, memristors and memristive structures for modeling nonlinear electrical devices (filters of non-Gaussian noise, compensators of nonlinear distortion, nonlinear converters, detectors, equalizers, etc.), control of bio-inspired robots and automatic manipulators.	https://etu.ru/assets/files/oda/struktura-portfolio-pnr-soloveva-angl.pdf
5	Alla B. Levina	Saint Petersburg Electrotechnical University "LETI"	cryptography, information security, coding theory, side-channel attacks	https://etu.ru/assets/files/oda/struktura-portfolio-pnr-angl-_levina.pdf

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6	Vladimir Venediktov	Saint Petersburg Electrotechnical University "LETI"	Generation, propagation and receiving of optical vortices. Advance wavefront sensors. Rotation sensors on the base of passive ring resonators. Angular position sensors on the base of metasurfaces.	https://etu.ru/assets/files/oda/venedictov.pdf
7	Andrey Kozyrev	Saint Petersburg Electrotechnical University "LETI"	Research of microwave properties of bulk and thin film materials. Design of controlling and protecting microwave devices (limiters, tunable filters, phase-shifters) and phased array antennas.	https://etu.ru/assets/files/oda/kozyrev.pdf
8	Andrey Tumarkin	Saint Petersburg Electrotechnical University "LETI"	Investigation of technology, structure and electrophysical properties of ferroelectric and dielectric thin films for microwave applications.	https://etu.ru/assets/files/oda/tumarkin.pdf
9	Alexey Ustinov	Saint Petersburg Electrotechnical University "LETI"	Magnonics, microwave photonics, nonlinear oscillations and waves.	https://etu.ru/assets/files/oda/ustinov.pdf

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10	Nataliia Obukhova	Saint Petersburg Electrotechnical University "LETI"	Computer vision and video analytics, machine learning and digital image processing, AI video systems and decision support systems	https://etu.ru/assets/files/oda/obukhova.pdf
11	Denis Butusov	Saint Petersburg Electrotechnical University "LETI"	Numerical methods, chaos theory & applications, advanced neural networks, biological neuron simulation, memristors, nonlinear dynamics, signal processing, advanced robotics	https://etu.ru/assets/files/oda/chislennye-metody-teoriya-i-prilozheniya-haosa-perspektivnye-arhitektury-nejronnyh-setej-modelirovanie-biologicheskih-nejronov-d.n.butusov.pdf
12	Zafar Yuldashev	Saint Petersburg Electrotechnical University "LETI"	Methods and systems development for on-line remote intelligent monitoring of the patents' health state with chronicle diseases	https://etu.ru/assets/files/oda/yuldashev.pdf
13	Mikhail Bogachev	Saint Petersburg Electrotechnical University "LETI"	Data Science and Applied Statistics with particular focus on Time Series Analysis and Complex Systems Dynamics, with applications to Bioinformatics, Computational Biology, Climate, Geosciences, Finance, Networks, Physiology and Medicine	https://etu.ru/assets/files/oda/bogachev.pdf

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14	Nikolai Tsarev	UrFU	- Energy- and resource-saving technologies for building microclimate, energy audit; - Water supply of cities and industrial enterprises; - Water supply and sewerage of cities and industrial enterprises; - Construction of buildings, structures and territory development	https://science.urfu.ru/en/persons/%D0%BD%D0%B8%D0%BA%D0%BE%D0%BB%D0%B0%D0%B9-%D1%81%D0%B5%D1%80%D0%B3%D0%B5%D0%B5%D0%B2%D0%B8%D1%87-%D1%86%D0%B0%D1%80%D0%B5%D0%B2
15	Makhmud Kharun	Peoples Friendship University of Russia (RUDN UNIVERSITY)	Construction Materials, Building Structures	http://globaluni.rudn.ru/index-en.html