

Potential scientific supervisors: Computer & Data Science

№	Surname	Name	University	Scientific interests	Link to portfolio
1.	Agafonov	Evgeny	Siberian Federal University	<ul style="list-style-type: none"> • Development of methods and algorithms for monitoring, control and management in technical systems • Development of algorithms for identification and control of complex objects, including distributed, nonlinear and non-stationary ones. 	https://www.sfu-kras.ru/files/Agafonov_E.D._Struktura_nauchnogo_profilya_portfolio_PNR_2023_ENG.pdf
2.	Akimova	Elena	Ural Federal University named after the first President of Russia B.N. Yeltsin	Numerical methods, parallel algorithms, multiprocessor computing systems, ill-posed problems, forward and inverse geophysical problems.	https://urfu.ru/en/research/postgraduate-programs-in-english/admission-options/open-doors-olympiad/research-supervisors/elena-n-akimova/
3.	Belyaev	Evgeny	ITMO University	<p>Video coding and transmission.</p> <p>Compressive sensing.</p> <p>Arithmetic coding.</p>	https://aspirantura.itmo.ru/?main=43
4.	Vasiliev	Alexander	Kazan (Volga region) Federal University	<p>Computation of parameters for quantum hash functions</p> <p>Analysis of cryptographic resistance of quantum hashing</p>	https://kpfu.ru/portal/docs/F151490704/Portfolio.Vasilev.A.V..na.anglijskom.yazyke.docx
5.	Golubev	Vasiliy	Moscow Institute of Physics and Technology (National Research University)	My research work is connected with the development of novel numerical methods for simulation of dynamic processes in complex media. Many phenomena and technological processes are described by hyperbolic systems of equations: the earthquake initiation, the seismic survey of oil and gas deposits, the non-destructive testing of composite materials, etc. In our research group we are concentrated on the extension of the grid-characteristic method for	https://eng.mipt.ru/programs/the-numerical-simulation-of-dynamics-problems-in-heterogeneous-media/

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				more complicated medium models. Acoustic, anisotropic elastic, fluid-saturated porous and non-linear continuum approaches and approximations are investigated. The internal research software is developed on C++ language supporting OpenMP, MPI and GPGPU systems. We are seeking for motivated young persons interested to expand scientific knowledge in the simulation area.	
6.	Alexey G. Goryunov		Tomsk Polytechnic University	Mathematical modeling and simulation physical plant; Control systems; Methods for measurements parameters and variables of technological processes	https://tpu.ru/upload/medialibrary/31d/3iwr8gf5wzz9exrqizksq2298ev6v55h/Goryunov-_AYA_.pdf
7.	Anton Yu. Demin		Tomsk Polytechnic University	Parallelization of programs based on graph representations; computer graphics; designing Internet applications; development of modern information systems for monitoring and verification of forest fires.	https://tpu.ru/upload/medialibrary/b5a/xwhqzc8mlykp351fzp09zroor6topzjm/Demin-_AYA_.pdf
8.	Drobintsev	Pavel	Peter the Great St Petersburg Polytechnic University	Applications of formal models to software quality assurance	https://opendoors.spbstu.ru/files/supervisors_portfolio/drobintsev.pdf
9.	Zakoldaev	Danil	ITMO University	1. Blockchain technologies applications to ensure cyber security 2. Features of ensuring information and functional security of cyber-physical systems 3. Development and improvement of modern methods of detecting and resisting network attacks	https://aspirantura.itmo.ru/?main=43
10.	Konov	Ilya	University of Science and Technology MISIS	Research on the topic of "Natural language processing" within the framework of the Russian language.	https://en.misis.ru/university/events/olimpiad/2023-09/4849/

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11.	Moiseev	Aleksandr	National Research Tomsk State University	Mathematical models of communication networks and distributed data processing systems in forms of queueing systems and networks of different types and configurations, modeling of computer networks at various architectural levels including wireless level networks access, including models of procedures for managing an individual data link transmission and a multilink transport connection that takes into account the distortion factors in communication channels and blocking of the buffer memory of transit switching nodes, as well as the level of the load on network connections and the pipeline effect that manifests itself when multi-packets messages are transported over multi-link data paths, analysis in applicability of forward error correction technique.	http://tsuod.tilda.ws/moiseeven
12.	Moiseeva	Svetlana	National Research Tomsk State University	Mathematical models of communication networks and distributed data processing systems in forms of queueing systems and networks of different types and configurations, modeling of computer networks at various architectural levels including wireless level networks access, including models of procedures for managing an individual data link transmission and a multilink transport connection that takes into account the distortion factors in communication channels and blocking of the buffer memory of transit switching nodes, as well as the level of the load on network connections and the pipeline effect that manifests itself when multi-packets messages are transported over multi-link data	http://tsuod.tilda.ws/moiseevasvetlanaen

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				paths, analysis in applicability of forward error correction technique.	
13.	Petrov	Nikolay	ITMO University	1. Digital holography 2. Phase retrieval 3. Terahertz technology 4. Singular optics 5. Femtosecond optics 6. Nonlinear optical properties	https://aspirantura.itmo.ru/?main=43
14.	Poptekhin	Vyacheslav	Peter the Great St Petersburg Polytechnic University	R & D in the field of cyber-physical systems, industrial automation and control systems (Engineering)	https://opendoors.spbstu.ru/files/supervisors_portfolio/potekhin.pdf
15.	Pchitskaya	Ekaterina	Peter the Great St Petersburg Polytechnic University	Algorithms and software for the neurobiological data analysis	https://opendoors.spbstu.ru/files/supervisors_portfolio/pchitskaya.pdf
16.	Aleksei O. Savelev		Tomsk Polytechnic University	Supervisor's research interests (detailed description of research interests): Social media mining, problem-oriented systems, research automation systems	https://tpu.ru/upload/medialibrary/9be/7urgupmngqbnetraejmagtcf8o31cgwy/Savelev-AYA.pdf
17.	Spitsyn	Vladimir	National Research Tomsk State University	Development of computational intelligence methods. The use of artificial neural networks and evolutionary algorithms for image processing and analysis. Character recognition on images based on the use of a hierarchical time network. Recognition of gestures on video sequences. Face recognition on images and video sequences.	http://tsuod.tilda.ws/spitsinen
18.	Sushchenko	Sergei	National Research Tomsk State University	Modeling of computer networks at various architectural levels including wireless level networks access, including models of procedures	http://tsuod.tilda.ws/suschenkoen

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				for managing an individual data link transmission and a multilink transport connection that takes into account the distortion factors in communication channels and blocking of the buffer memory of transit switching nodes, as well as the level of the load on network connections and the pipeline effect that manifests itself when multi-packets messages are transported over multi-link data paths, analysis in applicability of forward error correction technique; methods for calculating the operational characteristics of network topological structures and optimizing protocol parameters and the structure of data transmission paths, methods for preventing the effect of capturing the wireless data transmission medium.	
19.	Chzhan	Ekaterina	Siberian Federal University	Nonparametric modelling of technical multidimensional processes. Data analysis and control theory	https://www.sfu-kras.ru/files/Chzhan_E.A. Struktura_nauchnogo_profilya_portfolio_PNR_2023_ENG.pdf
20.	A.A. Shilin		Tomsk Polytechnic University	Development of theory and applied methods in process control systems based on micro-controllers. Optimal control of dynamic systems.	https://tpu.ru/upload/medialibrary/afd/uorf9lbq8yl5qqe70ew0ldlp1xb2eczw/SHilin-_A.YA_.pdf
21.	Shkodyrev	Vyacheslav	Peter the Great St Petersburg Polytechnic University	Artificial Intelligence and Intelligent Control Systems	https://opendoors.spbstu.ru/files/supervisors_portfolio/shkodyrev.pdf