

Potential scientific supervisors: Applied Mathematics & Artificial Intelligence

№	Surname	Name	University	Scientific interests	Link to portfolio
1.	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/
2.	Baklanova	Olga	National Research Tomsk State University	Applied experience with designing and developing end-to-end solutions using deep learning and image analysis techniques. Applied experience with Python and Linux. Applied experience with object detection and segmentation models. Familiarity with Deep Learning frameworks such as TensorFlow.	http://tsuod.tilda.ws/baklanovaen
3.	Demidenko	Gennadii	Novosibirsk State University	Boundary value problems for partial differential equations not solvable with respect to the highest order derivative. Properties of quasielliptical operators. Asymptotic properties of solutions to dif.equations.	https://events.nsu.ru/open_doors/ru/eng/Demidenko.pdf
4.	Gafarov	Fail	Kazan (Volga region) Federal University	Machine learning, artificial neural networks, deep learning biological neural network models, big data, data mining	https://kpfu.ru/portal/docs/F_1936118609/Gafurov.ang.docx
5.	Kochetov	Yuri	Novosibirsk State University	Transport logistics tasks for supplying gas stations; two-dimensional packaging for rectangular and irregular items; placements with barriers and prohibited areas; scheduling theories for warehouse management with robots.	https://www.nsu.ru/upload/mediabrary/3d5/kqsn2v91u58ekt9hsjuizne2pkvtkqdq/Kochetov-english.pdf
6.	Krivorotko	Olga	Novosibirsk State University	Mathematical modeling, inverse problems, machine learning, epidemiology, identifiability, sensitivity analysis.	https://www.nsu.ru/upload/mediabrary/926/hkdkbu57a232jade73fw22bw7mdhsxj4/krivorotko-russian.pdf
7.	Kryanev	Aleksander	National Research Nuclear University MEPhI	Mathematical theory of nuclear reactors, mathematical methods for processing uncertain data, statistical methods for solving ill-posed problems, including	https://eng.mephi.ru/study-with-us/contests/supervisors/avkryanev

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				methods for taking into account additional information about the desired solutions.	
8.	Kudryashov	Nikolay	National Research Nuclear University MEPHI	Nonlinear mathematical models and methods for their research.	https://eng.mephi.ru/study-with-us/contests/supervisors/nakudryashov
9.	Matveeva	Inessa	Novosibirsk State University	Asymptotic properties of solutions to functional differential equations; Stability of solutions to functional differential equations.	https://www.nsu.ru/upload/medialibrary/568/6lqt11c7prvk0eejgoq3vflwhknuu95h/Matveeva-russian.pdf
10.	Mironov	Andrey	Novosibirsk State University	Integrable systems, geometry, mathematical physics.	https://www.nsu.ru/upload/medialibrary/d0b/n7yqlm8qlfw0j23x2xqzvc98v5ody2ok/Mironov-en.pdf
11.	Nuriev	Artem	Kazan (Volga region) Federal University	Fluid mechanics, computational fluid dynamics, turbulence theory, hydrodynamic stability theory, biomimetic propulsion systems, oscillatory motion in liquid.	https://kpfu.ru/portal/docs/F1133378110/Nuriev.ang.docx
12.	Paul	Svetlana	National Research Tomsk State University	Theory of random processes, queuing theory, development of analytical methods for studying mathematical models of telecommunication systems and communication networks.	https://tsuod.tilda.ws/paulen
13.	Pavlovsky	Evgeniy	Novosibirsk State University	Models of classification of medical images. Quantum convolutions in image recognition. Recognition of multiple sclerosis foci on MRI images. Segmentation of bone specimens (ribs) in X-ray images.	https://www.nsu.ru/upload/medialibrary/ae0/ahmtcr6meo6e1earhtklcixmjxu8uqu/%D0%90%D0%BD%D0%BA%D0%B5%D1%82%D0%B0%20%D0%B0%D0%BD%D0%B3%D0%BB%D0%9F%D0%B0%D0%B2%D0%BB%D0%BE%D0%B2%D1%81%D0%BA%D0%B8%D0%B9.pdf
14.	Rozhkova	Svetlana	National Research Tomsk State University	Filtering, interpolation, extrapolation, recognition of stochastic processes, transmission of stochastic signals	https://tsuod.tilda.ws/rozhkovaen

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15.	Shitikova	Marina	Moscow State University of Civil Engineering	<p>trough continuous and discrete channels with memory; detection of anomalous noises; queuing theory.</p> <p>Modelling and analysis of dynamic properties of viscoelastic auxetics (materials with negative Poisson's ratio)</p> <p>Analysis of dynamic response of plates with complex rheology subjected to different dynamic loads</p> <p>Analysis of dynamic response of shells with complex rheology subjected to different dynamic loads</p> <p>Development of mathematical models of auxetics and their applications to the problems of shock interaction</p> <p>Analysis of dynamic response of cylindrical shells subjected to different combinations of internal and internal resonances via fractional order operators</p> <p>Analysis of transient dynamic behavior of thin-walled structural elements made of materials, features of which are described by the Cosserate pseudo-continuum</p> <p>Dynamic behavior of structures and their elements under extreme loading</p> <p>The influence of temperature on the dynamic behavior of structural elements during shock loading with due account for microstructural changes within the contact domain</p> <p>Mathematical modelling of dynamic behavior of plates rested on a viscoelastic foundation using different rheological models with fractional derivatives</p> <p>Dynamic analysis of nonlinear behavior of suspension combined systems subjected to moving loads</p>	https://mgsu.ru/postupayushchim/olimp/olimpiady/open-doors/open-doors-en/research-supervisors/marina-v-shitikova.php
16.	Shkodyrev	Vyacheslav	Peter the Great St. Petersburg Polytechnic University	<p>Complex research of scientific and technical problems using modern technology of mathematical modeling and computational experiment.</p>	https://opendoors.spbstu.ru/files/supervisors_portfolio/shkodyrev.pdf

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17.	Trofimov	Aleksander	National Research Nuclear University MEPhI	Machine learning and neural networks.	https://eng.mephi.ru/study-with-us/contests/supervisors/agtrofimov
18.	Zenkova	Zhanna	National Research Tomsk State University	Statistical modeling based on complete and censored (including interval) data using additional information; application of the models and their modifications in economics, including in marketing, insurance and actuarial calculations and in logistics.	https://tsuod.tilda.ws/zenkovaen