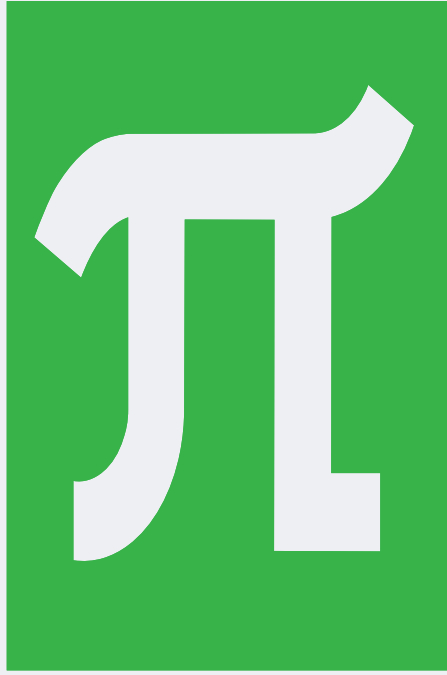


## Конференция “Telecommunications, Computing and Control” (TELECCON-2019)



18-19 ноября в Политехе прошла конференция “Telecommunications, Computing and Control” (TELECCON-2019) с публикацией принятых докладов в сборнике Communications in Computer and Information Science (издательство Springer, индексация в Scopus).



**ПОЛИТЕХ**



# ПОЛИТЕХ

Список докладов конференции:

Small Conference Hall: Topic 1 – Machine Learning	
10-10.15	Vasiliy Krundyshev and Maxim Kalinin. Generative adversarial network for detecting cyber threats in industrial systems
10.15-10.30	Maxim Kalinin, Vasiliy Krundyshev, Viacheslav Belenko and Valery Chernenko. Detection and prediction of safety faults in inter-device networks applying a set of data-driven method
10.30-10.45	Ivan Deylid and Sergey Molodyakov. Development of algorithm for determining the railway tracks on video image
10.45-11	Al-Windi Basim and Vladimir Tutygin. Plant disease recognition system based on multi-dimensional descriptions of leaf RGB images
11-11.15	Georgy Shevlyakov, Iuliia Kamaletdinova and Dmitri Jakovlev. Feature Based Plant Seedlings Classification
11.15-11.30	Lev Utkin, Andrei Konstantinov, Anna Meldo, Victoria Sokolova and Frank Coolen. The Deep Survival Forest and Elastic-Net-Cox Cascade models as extensions of the Deep Forest

11.30-12	Coffee break
12-12.15	Lev Utkin, Maxim Kovalev and Ernest Kasimov. An explanation method for Siamese neural networks
12.15-12.30	Mikhail Kots and Mikhail Pozigun. Semi-Supervised learning for medical image segmentation
12.30-12.45	Polina Andropova, Dmitriy Cheremisin and Anna Meldo. A computer-aided diagnosis system in the diagnosis of multiple sclerosis
12.45-13	Sergey Nesterov and Elena Smolina. Predicting students' performance on MOOC using data mining algorithms
13-13.15	Alexey Lukashin, Mikhail Popov, Dmitrii Timofeev and Igor Mikhalev. Employee Performance Analytics Approach based on Anomaly Detection in User Activity
13.15-13.30	Dmitry Baskakov and Dmitry Arseniev. On the Computational Complexity of Deep Learning Algorithms

Room B3.20: Topic 2 – Modelling and Simulation	
10-10.15	Georgiy Zhemelev and Alexandr Sidnev. Using Symbolic Computing to Find Stochastic Process Duration Distribution Laws
10.15-10.30	Evgeniy Ivanov, Aleksandr Zharkovskii, Igor Borshchev and Arsentiy Klyuyev. Comparison of the Shape of Digital Models of Pump Components
10.30-10.45	Rustamkhan Abdikarimov, Bakhodir Normuminov and Dadakhan Khodzhaev. Parametric Oscillations of Viscoelastic Ortotropic Rectangular Plates of Variable Thickness
10.45-11	Georgiy Shevlyakov, Kiseon Kim and Vladimir Prourzin. Computer Modeling of Robust Control of Vibrationless Movement of Multi-mode Flexible Structures
11-11.15	Vadim Glazunov, Mikhail Chuvatov, Leonid Kurochkin, Alexander Chernyshev, Mikhail Kurochkin and Leonid Hanin. Application of the Hybrid Model for Numerical Modeling of the Urban Transport Network Topology
11.15-11.30	Egor Starobinskii, Nikita Mushchak, Svetlana Kraeva, Sergei Hlopin and Egor Shel. On The Implementation Of The Planar3D Model Using The Explicit Time Integration Scheme And The Statistical Front Tracking Method
11.30-12	Coffee break

12-12.15	Nikita Mushchak, Egor Starobinskii, Sergei Hlopin and Egor Shel. Fast Fourier Transform in Planar3D model using an explicit numerical integration scheme
12.15-12.30	Konstantin Semenov and Anastasia Tselishcheva. The Interval Method of Bisection for Solving the Nonlinear Equations with Interval-Valued Parameters
12.30-12.45	Oleg Drozd, Pavel Avlasko, Semen Bordyugov and Denis Kapulin. An automated measuring complex for research parameters of unmanned aerial vehicle
12.45-13	Evgenij Gritskevich, Marina Egorenko, Diana Makarova, Sergei Novikov, Alexey Polikanin and Aelita Shaburova. Computer Model For Analysis Of The Process Of Image Construction In Optical-Electronic Visualization Systems
13-13.15	Mohie Alqezweeni and Vladimir Gorbachenko. Solution of partial differential equations on radial basis functions networks
13.15-13.30	Vladislav Shishlakov, Elizaveta Vataeva, Natalia Reshetnikova and Dmitry Shishlakov. Parametric synthesis of nonlinear continuous and impulsed systems

Small Conference Hall: Topic 3 - Software Engineering	
15-15.15	Pavel Pankov and Igor Nikiforov. Hardware and software system for collection, storage and visualization meteorological data from a weather stand
15.15-15.30	Vitaly Monastyrev and Pavel Drobintsev. Methodology of service development with a single Application Programming Interface
15.30-15.45	Tamara Chistyakova, Roman Makaruk, Ilya Sadykov and Christian Kohlert. Methods and technologies for protecting pharmaceutical products in polymer packaging from counterfeiting
15.45-16	Vladimir Ivanov, Alexander Klygach, Sergey Strelkov and Dmitry Arseniev. Medical training simulation in virtual reality
16-16.15	Ilya Voronkov and Sergey Saradgishvili. Usage of a BART algorithm and cognitive services to research collaboration platforms
16.15-16.30	Evgenii Timoshchuk, Sergey Kuznetsov, Ziyomukhammad Usmonov, Utih Amartiwi, Farah Atif and Harrif Saliu. Assessing the quality of the requirements specification by applying GQM approach and AHP technique

16.30-16.45	Konstantin Semenov and Vyacheslav Sal'Nikov The Solution of "If-Problem" in Computations with Multi-valued Variables Based on Operator Overloading
16.45-17	Elena Orekhova, Oxana Romashkova and Elena Pavlicheva. Automatization of organization and support of continuous and open education
17-17.15	Yuliya Kocherzhinskaya, Elena Ilina, Nikita Dyakonov, Daria Arefieva, Tatiana Antonova and Il'la Levandovskii. Transformation, visualization and analysis different kind of study information contained in the students' electronic portfolio
17.15-17.30	Dmitry Sakharov, V.A. Lipatnikov, V.S. Yarmush and Igor Potekhin. A way to increase the speed of a digital signature with the required level of security in the information network
17.30-17.45	Stanislav Krainikovskiy, Roman Samarev and Mikhail Melnikov. Predicting personality from image preferences: tendencies, models and implementation

Room B3.20: Topic 4 - Communications and Signal Processing, Topic 5 - Computer Architecture and Devices	
15-15.15	Valery Tryapitsyn and Sergey Kruglov. Simulation of the operation of logic circuits of a control system for an acousto-optical spectrum analyzer based on FPGA
15.15-15.30	Vladimir Badenko, Andrey Antonov, Anatoliy Belyaevskiy, Lei Zhang, Rahul Dev Garg and Alexander Fedotov. Radio-frequency positioning methods for solving the problem of high precision 2D positioning
15.30-15.45	Gleb Zaitsev, Alexei Vassiliev and Kien Trinh Quang. Methods and techniques for increasing the accuracy of continuous single heartbeat blood pressure measurement under dynamic loads
15.45-16	Iuliia Tropkina, Sergey Zavjalov and Dong Ge. Synchronization scheme for UWB Wireless Sensor Network System
16-16.15	Alexander Antonov, Vladimir Zaborovskij and Ivan Kisilev. Developing a new generation of Reconfigurable Heterogeneous Distributed High Performance Computing System
16.15-16.30	Andrey Krasov, Pavel Karelsky, Igor Zuyev, Max Kovzur and Aleksander Tasyuk. Research and evaluation of the most significant quantitative characteristics of MPLS equipment

16.30-16.45	Polina Zviagintseva, Dmitry Nikulin, Valery Reichert, Sergey Shergin, Igor Karmanov and Vladimir Korneyev. Study of the Microstrip Waveguide Prototype Model for Use as a Retunable Diffraction Grating
16.45-17	Polina Zviagintseva, Evgenij Gritskevich, Sergei Novikov, Diana Makarova, Marina Egorenko and Aelita Shaburova. The Use Of Digital Cameras For Multispectral Registration With An Unmanned Aircraft
17-17.15	Nikita Kulikov, Elena Yaitskaya, Arina Shvedova and Vladimir Zhalnin. Power consumption meter for energy monitoring and debugging
17.15-17.30	Vadim Shpenst and Andrei Terleev. LoRaWAN gateway coverage evaluation for smart city applications

Room B3.20: Topic 6 - Intelligent Control Systems	
17.30-17.45	Sergey Sergeev, Vladimir Ivanov and Oleg Ipatov. Enactivism in the conceptual basis of the non-classical theory of management of ergatic systems
17.45-18	Dmitri Kostenko, Vadim Onufriev and Vyacheslav Shkodyrev. Solving multicriteria optimization problem for an oil refinery plant
18-18.15	Vladislav Kovalevsky and Vadim Onufriev. Hierarchical multi-agent system for production control using KPI reconciliation
18.15-18.30	Aleksandr Titov, Sergey Krasnov, Andrey Timofeev and Victor Denisov. Complex monitoring systems for landfills
18.30-18.45	Elena Averchenkova. Modeling the control object in the management system of the regional socio-economic system
18.45-19.00	Dmitry Baskakov and Vyacheslav Shkodyrev. Deep Predictive Control