



SUMMA2020



2nd International Conference on Control Systems, Mathematical Modeling, Automation and Energy Efficiency

SUMMA2020 CONFERENCE PROGRAM

Venue: Russia, Lipetsk (VIRTUALLY)



LIPETSK STATE
TECHNICAL UNIVERSITY



November, 11-13 2020

SUMMA2020 CONFERENCE

Following the success of the previous year the conference SUMMA2020 is jointly organized by V.A. Trapeznikon Institute of Control Sciences RAS and the Department of Automation and Computer Science of Lipetsk State Technical University. The conference covers a wide range of topics related to special issues of Control Systems and Mathematical Modeling, Automation and using advanced knowledge in the Power Industry to solve scientific and practical production problems.

We hope, that the Conference will become a traditional place to discuss special issues of Control Systems and Mathematical Modeling, Automation and using advanced knowledge in the Power Industry to solve scientific and practical production problems.

SUMMA2020 TOPICS

Scientific program includes topics of interest that consist of, but are not limited to:

I. Industrial Applied Mathematics and Modeling *Mathematical Foundations of Control Theory; Control of Organizational and Socio-Economic Systems; Machine Learning*

II. Automation *Industrial Automation and Control Theory applying to Technological Processes; Digitalization in Industrial, Economic and Social Systems; Metals and Mining Industry; Transportation Systems*

III. Industrial and Commercial Power and Power Conversion Systems *Energy Systems and Power Systems Engineering; Electric Machines and Industrial Drives; Power Electronic Devices and Components*

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Wednesday, November, 11 2020

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11:00 – 11:30 (MSK, UTC+3)	Opening Ceremony
	Pavel SARAIEV, D.Sc., Prof. <i>Russia, Lipetsk, Lipetsk State Technical University</i>
	Anatoly YAKUTIN <i>Russia, Lipetsk, Vice Governor of Lipetsk Region</i>
	Dmitry NOVIKOV, Corresponding Member of RAS, D.Sc., Prof. <i>Russia, Moscow, V.A. Trapeznikov Institute of Control Sciences RAS</i>
	Sergei CHEBOTAREV, Cand. Sc. <i>Russia, Novolipetsk Steel</i>
11: 30– 13:00 (MSK, UTC+3)	Plenary Session Chair Prof. Pavel SARAIEV
	Mikhail KHLEBNIKOV, D.Sc., Prof. <i>Russia, V.A. Trapeznikov Institute of Control Sciences RAS</i>
	The Linear Matrix Inequality Technique in Control Systems
	Stanimir VALTCHEV, Prof. <i>Portugal, Universidade Nova de Lisboa</i>
	What are the Consequences from the Covid-19 for the Power Electronics?
	Ersan KABALCI, Prof. Dr. <i>Turkey, Nevşehir Hacı Bektaş Veli University</i>
	Recent Device Topologies and Control Methods in Residential PV Power Conversion
13:00 – 14:00 (MSK, UTC+3)	Coffee Break
14:00 – 16:00 (MSK, UTC+3)	Plenary Session Chair Prof. Stanimir VALTCHEV
	Svilen VALTCHEV, Prof. <i>Portugal, CEMAT-IST, Universidade de Lisboa</i>
	A Meshfree Method with Domain Decomposition for Helmholtz Boundary Value Problems
	Alexander LOSEV, D.Sc., Prof. <i>Russia, Volgograd State University</i>
	Machine Learning Algorithms in Recommendation System for Diagnosis of Breast Cancer According to Microwave Radiothermometr
	Semen BLYUMIN, D.Sc., Prof. <i>Russia, Lipetsk State Technical University</i>
	Graph-Structural Modeling and Analysis of Finite Fluctuations
	Sergey KOVALYOV, D.Sc., Prof. <i>Russia, JSC RTSoft Project Curator</i>
	A Platform-Based Approach to Implementation of Future Smart Distributed Energy Control Systems

Thursday, November, 12 2020

10:00 – 12:00 (MSK, UTC+3)	Section Sessions
12:00 – 13:00 (MSK, UTC+3)	Coffee Break
13:00 – 15:00 (MSK, UTC+3)	Section Sessions
15:00 – 15:30 (MSK, UTC+3)	Coffee Break
15:30 – 17:00 (MSK, UTC+3)	Section Sessions

Friday, November, 13 2020

9:30 – 10:00 (MSK, UTC+3)	Workshop on IEEE activity in Region 8 Yousef IBRAHIM, Prof. <i>IEEE Industrial Electronics Society Vice-president on Membership Activities Australia, Federation University Australia, Gippsland Campus</i>	Moderator Dr. Anton SYSOEV
10:00 – 12:00 (MSK, UTC+3)	Section Sessions	
12:00 – 13:00 (MSK, UTC+3)	Coffee Break	
13:00 – 16:00 (MSK, UTC+3)	Section Sessions	
16:00 – 16:30 (MSK, UTC+3)	Coffee Break	
16:30 – 17:00 (MSK, UTC+3)	Closing Ceremony	

DETAILED PROGRAM

Thursday, November, 12 2020

(Moscow time, UTC+3)

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Conference ID: 817 3040 7464

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Please indicate the session you prefer to join

Session AM.1.1 Industrial Applied Mathematics and Modeling – Mathematical Foundations of Control Theory (10:00-12:00)		Chairs Semen Blyumin Irina Sedykh Room (zoom) Session AM.1.1	ArtID
10:00-10:15	<i>Sergey Postnov</i> Optimal Damping Problem with Additional Terminal State Condition in Diffusion-Wave Processes		3
10:15-10:30	<i>Nikolay Karabutov</i> Structural Identifiability of Nonlinear Systems with Hysteresis		4
10:30-10:45	<i>Semen Blyumin, Galina Borovkova and Anton Sysoev</i> Finite Fluctuations and Quantum Derivatives		17
10:45-11:00	<i>Semen Blyumin, Zhanova Natalia and Anton Sysoev</i> Drinking Philosophers, Resource Allocation and Directed Metagraphs		18
11:00-11:15	<i>Nikolai Mishachev, Anatoly Shmyrin and Roman Popov</i> Three Versions of Sequential Projection Algorithm and Condition Numbers of Large Random Matrices		27
11:15-11:30	<i>Kudayeva Fatimat, Arslan Kaygermazov, Diana Khashkhozheva and Aslan Zhemukhov</i> Mathematical Model of Spherical-Symmetric Hypothermia and Cryo-Destruction of Biological Tissue		28
11:30-11:45	<i>Arslan Kaygermazov, Kudayeva Fatimat, Diana Khashkhozheva and Aslan Zhemukhov</i> Continuous Resource-Consumer Population Model with Age Structure		29

Session AM.2.1 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (10:00-12:00)		Chairs Yuri Gromov Alexander Alekseev Room (zoom) Session AM.2.1	ArtID
10:00-10:15	<i>Olga I. Gorbaneva, Elena Lazareva, Anton Murzin and Roman Revunov</i> Administration of Interbudgetary Relations as a Tool for Increasing the Level of Economic Welfare of the Macroregion (on the Example of the South of Russia)		8
10:15-10:30	<i>Movlatkhan Agieva, Olga I. Gorbaneva and Gennady Ougolnitsky</i> Dynamic SPICE-model of Resource Allocation in Marketing Networks with Co-directed Interests		9
10:30-10:45	<i>Vladimir Tsyganov</i> Training in Control of Production Costs		10
10:45-11:00	<i>Vladimir Tsyganov</i> Corporative Productivity Adaptive Mechanisms		11

Session AM.2.1 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (10:00-12:00)		Chairs Yuri Gromov Alexander Alekseev Room (zoom) Session AM.2.1	ArtID
11:00-11:15	<i>Denis Fedyanin and Anver Enaleev</i> Modeling of Two-Channel Management Mechanisms in Organizational Systems		14
11:15-11:30	<i>Denis Fedyanin</i> Predictions of Additional Efforts Caused by Social Interactions Among Employers		15
11:30-11:45	<i>Zhaxybay Ismailov and Dmitry Kononov</i> Problems and Tasks of Emergency Management in Complex Logistics Systems		20
11:45-12:00	<i>Olga I. Gorbaneva, Elena Lazareva, Anton Murzin and Evgeniya Roshchina</i> Socio-ecological Potential Increment in the System of Innovation Economy' Sustainable Development Management		25

Session AM.3.1 Industrial Applied Mathematics and Modeling – Machine Learning (10:00-12:00)		Chairs Pavel Saraev Sergey Listopad Room (zoom) Session AM.3.1	ArtID
10:00-10:15	<i>Zayar Aung, Toe Toe and Sabai Oo</i> Burmese Text Images Classification Based on Neural Network		1
10:15-10:30	<i>Andrei Chesnokov, Vitalii Mikhailov and Ivan Dolmatov</i> Evolutionary Algorithm for Roof Structure Optimization		35
10:30-10:45	<i>Andrei Chesnokov, Vitalii Mikhailov and Ivan Dolmatov</i> Application of Artificial Neural Network for Membrane Damage Detection in a Bending-Active Construction		36
10:45-11:00	<i>Andrei Chesnokov, Vitalii Mikhailov and Ivan Dolmatov</i> Detection of Structural Behavior Anomalies in Hybrid Roof Systems		37
11:00-11:15	<i>Liliya Demidova and Maria Ivkina</i> Development and Research of the Forecasting Models Based on the Time Series Using the Random Forest Algorithm Data		42
11:15-11:30	<i>Pavel Kornev and Alexander Pylkin</i> Research of the Methods of Optimization of Artificial Neural Networks Training in the Tasks of Regression Analysis		49
11:30-11:45	<i>Liliya Demidova and Dmitry Marchev</i> Development of the Forecasting Model for the Complex Technical Systems' Failures Time During the Proactive Maintenance Using the Recurrent Neural Networks' Technology		58
11:45-12:00	<i>Irina Sedykh and Vladimir Istomin</i> Management of the Strip Cooling Process Using Neural Networks Based on Clustered Data		76

Session A.1.1 Automation – Industrial Automation and Control Theory applying to Technological Processes (10:00-12:00)		Chairs Tamara Chistyakova Anton Glushchenko Room (zoom) Session A.1.1	ArtID
10:00-10:15	<i>Vladimir Kuvshinnikov and Evgeny Kovshov</i> Special-purpose Solid Radwaste Transfer Gantry Crane Control Automation Using Genetic Algorithm		6
10:15-10:30	<i>Atanas Nachev, Nikolay Gueorguiev and Sergey Ivashov</i> Optimization of Superhigh Frequency Analysis of Composite Materials		45
10:30-10:45	<i>Nikolay Gueorguiev, Atanas Nachev and Konstantin Belotelov</i> Shielding of a Seismic Sensor from Nearby Area Interferences		46
10:45-11:00	<i>Atanas Nachev, Nikolay Gueorguiev and Konstantin Belotelov</i> Efficiency of a Sensor Network for Analysis of Surface Seismic Waves Taking into Account its Functional Reliability		47
11:00-11:15	<i>Dmitry Kononov and Furugyan Meran</i> Planning for Implementation of an Inhomogeneous Complex of Jobs with Resources of Different Types		50
11:15-11:30	<i>Oleg Davydov and Vladimir Voronin</i> Technical Object of Diagnosis External Representation Modeling		84
11:30-11:45	<i>Ilya Tarasov, Dmitry Potekhin, Sergey Potekhin and Maxim Khrenov</i> A Multi-frequency Dielectric Loss Tangent Meter for Monitoring High-voltage Power Equipment		88
11:45-12:00	<i>Valery Khranilov, Pavel Misevich and Elena Pankratova</i> The Use of Hybrid Knowledge Bases in Designing Engineering Systems		104

Session A.2.1 Automation – Digitalization in Industrial, Economic and Social Systems (10:00-12:00)		Chairs Yury Kachanovskiy Mikhail Kharitonov Room (zoom) Session A.2.1	ArtID
10:00-10:15	<i>Serge Kovalyov and Alexey Nebera</i> A Platform-based Approach to Implementation of Future Smart Distributed Energy Control Systems		16
10:15-10:30	<i>Sophiya Rumovskaya and Andrey Litvin</i> Implementation of the System for the Early Diagnosis of Pancreatic Cancer in Clinical Practice		32
10:30-10:45	<i>Sophiya Rumovskaya</i> Visualization of Team Cohesion in Hybrid Intelligent Multi-agent Systems		34
10:45-11:00	<i>Oleg Maryasin and Andrey Lukashov</i> Developing a Digital Model of an Electricity Consumer using Deep Learning		38
11:00-11:15	<i>Yuri Gromov, Yuri Minin, Aleksey Eliseev, Ali Abdulkarem Habib Alrammahi and Farah Abbac Sari</i> Synthesis of Data Transmission Networks with Specified Survivability under Negative External Influences		43
11:15-11:30	<i>Yuri Gromov, Yuri Minin, Aleksey Eliseev, Farah Abbac Sari and Ali Abdulkarem Habib Alrammahi</i> Building an External Classifier of Negative Impacts in Assessing Survivability and Ensuring the Security of Information Systems		44

Session A.2.1 Automation – Digitalization in Industrial, Economic and Social Systems (10:00-12:00)		Chairs Yury Kachanovskiy Mikhail Kharitonov Room (zoom) Session A.2.1	ArtID
11:30-11:45	<i>Alexey Gorbunov, Yuri Gromov, Egor Dolgov, Eugene Tugolukov and Alexey Neprokin</i> Accelerometric Studies of Night-time Motor Activity with Essential Tremor		51
11:45-12:00	<i>Anatoly Pogodaev, Inna Muzyleva, Liubov Iazykova and Sergey Kondratyev</i> The use of Augmented Reality Technologies in Electrical Engineering Disciplines		69

Session E.3.1 Industrial and Commercial Power and Power Conversion Systems – Energy Systems and Power Systems Engineering (10:00-12:00)		Chairs Stanimir Valtchev Yuri Shurygin Room (zoom) Session E.3.1	ArtID
10:00-10:15	<i>Vladimir Osinin, Tatyana Gerasimenko, Vera Korchagina and Artem Osinin</i> Analytical Dependence of the Parameter Vd for Atmospheric Radio Noise from One Bandwidth		7
10:15-10:30	<i>Alexander Komkov, Mikhail Ershov and Valentina Bliuk</i> Algorithms for Quick Calculation of Transition Processes at Asymmetric Modes of Multi-Machine Electrotechnical Systems with Induction Drives		13
10:30-10:45	<i>Alexey Platenkin, Vladimir Chernyshov, Tatyana Chernyshova and Maxim Dutov</i> Process Development for Obtaining Functional Layers for Solid Oxide Fuel Cells from Liquid Precursors Using Plasma Sputtering Technology		19
10:45-11:00	<i>Elena Gracheva, Alexey Gorlov and Alsu Alimova</i> Features of Structure of Electric Supply Systems of Industrial Enterprises		30
11:00-11:15	<i>Vladimir Pikalov, Viktor Meshcheryakov, Stanimir Valtchev and Sergey Titov</i> Electrical Automation System for Materials Recovery with Electro-plasma Technology		39
11:15-11:30	<i>Stanimir Valtchev, Viktor Meshcheryakov, Oleg Kryukov and Aleksei Belousov</i> Comparative Analysis of Electric Drives Control Systems Applied to Two-phase Induction Motors		41
11:30-11:45	<i>Damir Kochegarov, Artem Serebryakov and Alexsey Steklov</i> Wind-solar Electric Power System Simulation Model with Equipment Condition Assessment System		48
11:45-12:00	<i>Yuri Shurygin</i> Mathematical and Simulation Modeling Electric Modes of Electric Arc Furnaces Alternating Current		53

Session AM.1.2 Industrial Applied Mathematics and Modeling – Mathematical Foundations of Control Theory (13:00-15:00)		Chairs Semen Blyumin Irina Sedykh Room (zoom) Session AM.1.2	ArtID
13:00-13:15	<i>Sergey Feofilov and Andrey Kozyr</i> Structural and Parametric Synthesis of Digital Automatic Systems with Discontinuous Control		33
13:15-13:30	<i>Andrey Kuzmenko and Anatoly Kolesnikov</i> Forced Sliding Mode Control: Synergetic Approach		52

Session AM.1.2 Industrial Applied Mathematics and Modeling – Mathematical Foundations of Control Theory (13:00–15:00)		Chairs Semen Blyumin Irina Sedykh Room (zoom) Session AM.1.2	ArtID
13:30–13:45	<i>Igor Miretskiy, Michail Guzev and Pavel Popov</i> Minimization of Penalties for Tardiness in a Flow Shop Systems		54
13:45–14:00	<i>Viktor Penkov and Lyubov Levina</i> Resource Conservation: Practical Utility of a Natural Classification of Functions		55
14:00–14:15	<i>Viktor Penkov, Maksim Polikarpov and Lyubov Levina</i> Efficient Solutions of Mixed-Type Axial Symmetry Problems for Perfect Fluids		56
14:15–14:30	<i>Dmitriy Ivanychev</i> Solving the Mixed Problem of Elasticity Theory with Mass Forces for Transversal-Isotropic Body		57
14:30–14:45	<i>Roman Kurnosov, Tatiana Chernyshova, Vladimir Chernyshov and Maria Kamenskaya</i> Metrological Analysis of Analog-to-digital Conversion Measurement Procedure in Information-measuring and Control Systems		59
14:45–15:00	<i>Andrey Sedov</i> Algebraic Polynomial Dependence of Change of the Spectral Characteristics of Aggregate Signal of Control Systems on Its Compression or Stretching in Time		73

Session AM.2.2 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (13:00–15:00)		Chairs Yuri Gromov Alexander Alekseev Room (zoom) Session AM.2.2	ArtID
13:00–13:15	<i>Konstantin Trubitsyn, Yulia Gorbunova and Artem Doronin</i> Improving the Tariff Regulation System for Heat Transfer Services		40
13:15–13:30	<i>Nikolay Popov, Olga Milovanova and Lyudmila Chuksina</i> Setting and Solving Problems of Sustainable Development Management of Regional Economy Objects		61
13:30–13:45	<i>Maksim Stepanov and Liliya Demidova</i> Data Analysis Using the Nonlinear Dimension Reduction Algorithms		74
13:45–14:00	<i>Vladimir Devyatkov and Aleksey Gabalin</i> Investigation of Business Processes Involving Queues Using Simulation Modeling		85
14:00–14:15	<i>Oleg Boldyrikhin</i> Modeling the Educational Process on the Basis of Logical and Probabilistic Methods to Improve the Results of Mastering the Educational Program by Students in the Framework of the Competency-Based Approach		90
14:15–14:30	<i>Elena Kuznetsova, Tatiana Fomina and Margarita Karlova</i> Modeling and Forecasting of the Lipetsk Region Socioeconomic Indicators in the Context of Sustainable Development		100
14:30–14:45	<i>Marina Lapshina, Oksana Lukina and Larisa Zhitinskaya</i> Innovative Approaches to the Analysis of Objective Possibilities of Forming an Equilibrium State in an Economy with a Countable Number of Participants and Goods		110

Session AM.2.2 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (13:00–15:00)		Chairs Yuri Gromov Alexander Alekseev Room (zoom) Session AM.2.2	ArtID
14:45–15:00	<i>Marina Lapshina and Natalia Safonova</i> Building a Simulation Model of the Behavior of a Monopolist Enterprise in the Current Economic Situation in Order to Increase the Possibility of Optimal Management		111

Session AM.3.2 Industrial Applied Mathematics and Modeling – Machine Learning (13:00–15:00)		Chairs Pavel Saraev Sergey Listopad Room (zoom) Session AM.3.2	ArtID
13:00–13:15	<i>Viktor Glazunov</i> The Algorithm for Tumor Localization in Case of Breast Cancer According to Microwave Thermometry		77
13:15–13:30	<i>Alexander Pashentsev and Vitalii Vedishchev</i> Applying Big Data and Machine Learning Approach to Identify Noised Data		83
13:30–13:45	<i>Alexander Losev</i> Machine Learning Algorithms in Recommendation System for Diagnosis of Breast Cancer According to Microwave Radiothermometry		96
13:45–14:00	<i>Daniyar Enikeev and Svetlana Mustafina</i> Recognition of Sign Language Using Leap Motion Controller Data		117
14:00–14:15	<i>Alexander Aleskeev</i> Identification of the Integrated Rating Mechanisms Based on Training Set		124
14:15–14:30	<i>Artem Obukhov and Mikhail Krasnyanskiy</i> Neural Network Method for the Data Classification and Distribution in Adaptive Information Systems		132
14:30–14:45	<i>Sergey Kirillov, Vladimir Dmitriev and Sergey Aleksenko</i> Machine Learning Algorithms Based on Hidden Markov Models in Low-speed Speech Codecs for Assessing Speech Quality		133
14:45–15:00	<i>Alexei Tyurin</i> Predicting the Temperature Decrease of Metal Between the Furnace-bucket Machine and the SCCP (STEEL CONTINUOUS CASTING PLANT)		143

Session A.1.2 Automation – Industrial Automation and Control Theory applying to Technological Processes (13:00–15:00)		Chairs Tamara Chistyakova Anton Glushchenko Room (zoom) Session A.1.2	ArtID
13:00–13:15	<i>Anton Glushchenko, Andrey Fomin and Petr Zhukov</i> Development of Relationship Between Steel Billet Temperature and Data on Its Heating History for Continuous Furnace of Rolling-Mill Shop		106
13:15–13:30	<i>Karthik Poovendran, Dirk Abel, Vivan Govender and Tim Reuscher</i> Vehicle Cabin Thermal Multi-Zone Modelling for Control		113

Session A.1.2 Automation – Industrial Automation and Control Theory applying to Technological Processes (13:00–15:00)		Chairs Tamara Chistyakova Anton Glushchenko Room (zoom) Session A.1.2	ArtID
13:30-13:45	<i>Sergey Tikhomirov, Aleksandr Maslov and Olga Karmanova</i> Decision Support System in the Production of Polymer Products		115
13:45-14:00	<i>Andrey Volkov, Vladimir Goncharenko and Nina Zhuravleva</i> Development of a Neural Network Algorithm for Predicting the Technical State of Complex Systems Based on an Algebraic Approach		120
14:00-14:15	<i>Tamara Chistyakova, Inna Novozhilova and Vladimir Kozlov</i> Computer System for Resource and Energy-Saving Steelmaking Converter Process Control Taking into Account Environmental Safety Requirements		129
14:15-14:30	<i>Vladimir Bocharov, Alexandr Danilov, Viktor Burkovsky and Konstantin Gusev</i> Development of a Modular Control System for an Industrial Dismantling Robot		131
14:30-14:45	<i>Daria Vladimirova</i> Optimal Control of the Silica Capillaries Drawing Process		136
14:45-15:00	<i>Eugene Duvanov, Yuri Kudinov, Fedor Pashchenko and Alexander Ponomarev</i> Analysis and Synthesis of the Modified MRAC-MIT System and the MRAC-Lyapunov System		137

Session A.3.1 Automation – Metals and Mining Industry (13:00–15:15)		Chairs Sergey Belskiy Sergey Kuzenkov Room (zoom) Session A.3.1	ArtID
13:00-13:15	<i>Aleksandr Shkarin, Sergey Belskiy and Vladimir Pimenov</i> The Influence of the Shape of the Cross-sectional Profile of Hot-rolled Steel on the Distribution of the Elongations over the Width of the Cold-rolled Strips		94
13:15-13:30	<i>Sergey Kuzenkov</i> Changing Properties of Strengthened Surface at Pulse Ion Bombardment		101
13:30-13:45	<i>Olesya Kovrizhnykh and Michael Tsukanov</i> The Need to Ensure Stability of the Schedule of Complex-Structured Productions		165
13:45-14:00	<i>Alexander Galkin, Vladimir Pimenov, Pavel Saraev and Dmitry Tyrin</i> Integrated Simulation of Process of Steel Casting on the Continuous Steel Casting Unit		167
14:00-14:15	<i>Filipp Kirsanov, Aleksey Korostelev and Viktor Erokhin</i> Model of Interaction with a Barrier of Single Particles in the Restoration of the Landing Holes of Body Parts by the Method of Cold Gas-Dynamic Spraying		169
14:15-14:30	<i>Maria Oreshina and Monika Dabas</i> Modeling of Thermal Mode in Steel Rolling		192
14:30-14:45	<i>Olga Farafonova and Olga Shashkanova</i> Development of a Unified Determination of the Composition of Galvanic Electrolytes for Quick Process Control		209
14:45-15:00	<i>Anton Butin, Mikhail Shipulin and Maria Markova</i> Polymer-polymeric Composition for Restoration of Unmovable Bearings Joints		211
15:00-15:15	<i>Irina Voytyuk, Alexandra Kopteva and Alexandr Skamyin</i> Software and Hardware Complex for Ore Quality Control on a Belt Conveyor		239

Session E.2.1 Industrial and Commercial Power and Power Conversion Systems – Power Electronic Devices and Components (13:00-14:00)		Chairs Viktor Meshcheryakov Oleg Shachnev Room (zoom) Session E.2.1	ArtID
13:00-13:15	<i>En Un Chye and Aleksandr Shein</i> Parametric Synthesis of Electrical Devices Circuit Diagrams on the Basis of the Inverse Problem Solving		31
13:15-13:30	<i>Vladimir Filippov, Sergey Mitsuk and Sergey Luzyanin</i> Measuring the Resistance of Metal-Semiconductor Contacts Produced by Drop Electrochemical Method		60
13:30-13:45	<i>Sergey Mitsuk, Filippov Vladimir and Natalya Dolmatova</i> Eight-Probe Method of Simultaneous Measurement of Electroconductivity and Hall Coefficient of Semiconductor Films		66
13:45-14:00	<i>Vladimir Filippov and Natalya Biryukova</i> Mathematical Modelling of Hall Effect in Rectangular Samples with Nonpoint Current Contacts		67

Session AM.1.3 Industrial Applied Mathematics and Modeling – Mathematical Foundations of Control Theory (15:30-17:00)		Chairs Semen Blyumin Irina Sedykh Room (zoom) Session AM.1.3	ArtID
15:30-15:45	<i>Sergey Mordasov, Anastasiya Udalova, Tatyana Chernyshova and Vladimir Chernyshov</i> Microwave Method for Determining the Thermophysical Characteristics of Multilayer Building Structures and Products		89
15:45-16:00	<i>Alexander Ivanov, Dmitriy Boykov, Sergey Moskvitin and Anastasia Negulyaeva</i> Application of Fuzzy Logic for Control of the Integrity of Navigation Data of Satellite Radio Navigation Systems		92
16:00-16:15	<i>Igor Atlasov and Roman Solodukha</i> A Criterion for Comparing Two Sets of Steganalytical Methods with a Determined Reliability		105
16:15-16:30	<i>Natalia Rybina, Alexey Alpatov and Nikolai Rybin</i> Investigation of Properties of Structural Components in Complex Surfaces		109
16:30-16:45	<i>Nikolay Filimonov</i> Polyhedral Algorithm of Predictive Control by Discrete Dynamic Objects		118
16:45-17:00	<i>Anton Mikhalev and Anatoly Rouban</i> Global Optimization on Set of Discrete Variables at the Presence of Inequalities Constraints		140

Session AM.2.3 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (15:30-17:00)		Chairs Tatiana Ledeneva Maxim Novak Room (zoom) Session AM.2.3	ArtID
15:30-15:45	<i>Marina Lapshina and Valentina Sukhova</i> Building Economic and Mathematical Models for Managing the Process of Forming a Compromise Interest in Pay		112

Session AM.2.3 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (15:30–17:00)		Chairs Tatiana Ledeneva Maxim Novak Room (zoom) Session AM.2.3	ArtID
15:45–16:00	<i>Dmitriy A. Kovtun, Matvey V. Koptelov and Anna I. Guseva</i> Megaproject Risk Management Based on Loyalty Program Using Neural Network Models		116
16:00–16:15	<i>Vladimir Tsyganov</i> Non-Expensive Adaptive Mechanism of Quartering		130
16:15–16:30	<i>Alexander Kulinich</i> Decision Support in Ill-defined Situations Based on Internet Information Retrieval		135
16:30–16:45	<i>Sergey Listopad</i> Solving the Regional Power Grid Restoration Problem with the Prototype of the Hybrid Intelligent Multi-Agent System of Heterogeneous Thinking		145
16:45–17:00	<i>Mikhail Kharitonov, Alexander Voronin, Anna Vasilchenko and Kostantin Dubinko</i> Control Model of Hydrologic Safety of Inundated Territories		147

Session A.2.2 Automation – Digitalization in Industrial, Economic and Social Systems (15:30–17:00)		Chairs Yury Kachanovskiy Mikhail Kharitonov Room (zoom) Session A.2.2	ArtID
15:30–15:45	<i>Inna Muzyleva, Liubov Iazykova, Anzhelika Martynova, Alina Gorlach and Yakov Gorlach</i> The System of Computer-Aided Design of Organizational Documentation in the Context of Digitalization of the University		71
15:45–16:00	<i>Igor Gilev, Sergey Kanavin and Nikolay Khokhlov</i> Building a Neural Network to Select Methods of Counteracting Destructive Electromagnetic Effects		72
16:00–16:15	<i>Maxim Levin, Stanislav Nagornov and Ekaterina Levina</i> The Method of Constructing a Neural Network Cascade for Simulating Virtual Sensors in the Concept of "Smart" Oil Storage Facility for Agricultural Purposes		78
16:15–16:30	<i>Inna Muzyleva, Liubov Iazykova, Alina Gorlach and Yakov Gorlach</i> Laboratory for Electrical Engineering Using Mixed Reality		79
16:30–16:45	<i>Ilya Tarasov, Elena Andrianova and Peter Sovietov</i> Hardware Acceleration of Statistical Data Processing Based on FPGAs in Corporate Information Systems		87
16:45–17:00	<i>Mikhail Matveev, Semen Podvalny and Yulia Yadgarova</i> Automated Service for Product Offer Creation on the E-trading Platform with Marketplace Technology		103

Session A.1.3 Automation – Industrial Automation and Control Theory applying to Technological Processes (15:30–17:00)		Chairs Yuri Kudinov Inna Muzyleva Room (zoom) Session A.1.3	ArtID
15:30–15:45	<i>Alexander Ponomarev, Yuri Kudinov, Fedor Pashchenko and Eugene Duvanov</i> Analysis and Synthesis of Adaptive PID Controller with MRAC-MIT System		138

Session A.1.3 Automation – Industrial Automation and Control Theory applying to Technological Processes (15:30–17:00)		Chairs Yuri Kudinov Inna Muzyleva Room (zoom) Session A.1.3	ArtID
15:45–16:00	<i>Victor Radchenko, Alexander Titov, Sergey Khrapov and Alexander Khoperskov</i> Internal Geometry of Nozzles Adapted for 3D Printing: Optimization Using Computational Fluid Dynamics Methods		142
16:00–16:15	<i>Clara Tagirova, Alexey Vulfin, Damir Bakiev and Alexey Gladkih</i> Modular Structure of the Intelligent Oil Production Equipment Control Station		152
16:15–16:30	<i>Rashit Nasyrov</i> Efficiency Evaluating Models to Support Decisions Based on a Causal Approach		161
16:30–16:45	<i>Sergey Tikhomirov, Mikhail Matveev, Alexey Popov, Andrew Karmanov and Anatoliy Khvostov</i> Technical and Economic Parameters Optimization Problem Solution of Butyl Regenerate Production Process with Tasked Quality Indicators		172
16:45–17:00	<i>Alexey Popov, Sergey Tikhomirov, Semen Podvalny and Oleg Neizvestny</i> Synthesis of Ethylbenzene Dehydration Model Taking into Account the Reagent Partial Pressures for the Implementation of the Predictive Functional Control Method		175

Session E.1.1 Industrial and Commercial Power and Power Conversion Systems –Electric Machines and Industrial Drives (15:30–17:15)		Chairs Viktor Meshcheryakov Oleg Shachnev Room (zoom) Session E.1.1	ArtID
15:30–15:45	<i>Dmitry Sibirtsev</i> Control System for a Synchronized Electric Drive		64
15:45–16:00	<i>Konstantin Lastochkin, Anton Glushchenko and Vladislav Petrov</i> Reference Model Hedging under Conditions of Bounded Control Action Signal to Implement Adaptive Control of DC Drive		81
16:00–16:15	<i>Denis Shishlin</i> Cascade-Frequency Electric Drive: Structure, Control, Energy Saving, Mathematical Modeling		98
16:15–16:30	<i>Artur Sagdatullin</i> Functioning and Development of a Real-Time Information System for the Oil Treatment Technological Process Control		193
16:30–16:45	<i>Anton Glushchenko and Maxim Serov</i> On Comparative Analysis of Optimization Methods of Multi-Pump Units Performance		232
16:45–17:00	<i>Brayden Noh</i> Supercapacitor Assisted Heavy Hybrid Electric Vehicle Powertrain and Power Selection using Real-Time Fuzzy Rule-Based Algorithm		250
17:00–17:15	<i>Victor Meshcheryakov and Maksim Khabibullin</i> Active Power Filter with a Common Direct Current Link		251

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9:30 – 10:00 (MSK, UTC+3)	Workshop on IEEE activity in Region 8 Yousef IBRAHIM, Prof. IEEE Industrial Electronics Society Vice President on Membership Activities Australia, Federation University Australia, Gippsland Campus	Moderator Dr. Anton SYSOEV
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Session AM.1.4 Industrial Applied Mathematics and Modeling – Mathematical Foundations of Control Theory (10:00-12:00)		Chairs Room (zoom)	Yuri Talagaev Maria Oreshina Session AM.1.4	ArtID
10:00-10:15	<i>Aleksandr Krasinskiy</i> On a Method of the Mathematical Modeling of Wheel Deformation in the Problems of Controlling Wheeled Robots			157
10:15-10:30	<i>Aleksandr Andreev, Olga Peregudova and Victor Prikhodko</i> Output Feedback Control Structure of a Robot Manipulator in a Hot Cell			174
10:30-10:45	<i>Olga Peregudova, Katherine Sutyorkina, Rezeda Hasanova and Irina Kudashkina</i> On the Motion Control of a Mobile Robot with Four Omni-Wheels and a Displaced Center of Mass			176
10:45-11:00	<i>Aleksandr Andreev, Olga Peregudova and Lubov Kolegova</i> On the Output Position Feedback Controller of a Serial Robot Manipulator			177
11:00-11:15	<i>Alexander Afonin, Denis Mikhaylin, Andrey Sulakov and Alexey Moskalev</i> The Adaptive Kalman Filter in Aircraft Control and Navigation Systems			186
11:15-11:30	<i>Maria Oreshina</i> Spectral Method for Approximate Solving of Linear Differential Equations with Self-Adjoint Coefficients			196
11:30-11:45	<i>Tatiana Ledeneva</i> Designing a Fuzzy Inference Mechanism			207
11:45-12:00	<i>Yuri Talagaev and Pavel Saraev</i> Features and Possibilities of Remodeling Nonlinear Systems Based on Takagi-Sugeno Fuzzy Models			212

Session AM.2.4 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (10:00-12:00)		Chairs Maxim Novak Natalia Zhanova Room (zoom) Session AM.2.4	ArtID
10:00-10:15	<i>Pavel Gudkov, Stepan Faleev and Anna Guseva</i> Decision-making Support in Evaluating Innovative Contest Applications		148
10:15-10:30	<i>Vladislav Gusev</i> Models of the Developing Systems Control in the Conditions of Instability and Crisis		155
10:30-10:45	<i>Oleg Malafeyev, Sergei Nemnyugin, Irina Zaitseva, Yulia Orel, Dmitry Shlaev and Svetlana Temmoeva</i> Interdisciplinary Approach to Social-economic Simulation		159
10:45-11:00	<i>Alexey Popov, Olga Suslova and Egor Budyukin</i> Synergy in the "Production-Transport-Consumption" System		163
11:00-11:15	<i>Alexey Popov, Olga Suslova and Egor Budyukin</i> Multicriteria ABC-analysis of a Complex System of Indicators with Fuzzy Weight Coefficients of Criteria		164
11:15-11:30	<i>Alexander Galkin and Lydia Chernysheva</i> Optimizing Maintenance Plans of Multi-component Devices		170
11:30-11:45	<i>Semen Blyumin, Anatoly Pogodaev and Elena Khabibullina</i> Graph-structural Modeling of Some Special Organizational Systems		173
11:45-12:00	<i>Aleksandra Zhukova and Igor Pospelov</i> Modelling the System of Economic Agents in the Presence of Random Moments of Transactions		180

Session AM.3.3 Industrial Applied Mathematics and Modeling – Machine Learning (10:00-11:45)		Chairs Pavel Domashnev Sophiya Rumovskaya Room (zoom) Session AM.3.3	ArtID
10:00-10:15	<i>Sergey Listopad</i> Modeling Team Cohesion Using Hybrid Intelligent Multi-agent Systems		144
10:15-10:30	<i>Sergey Savvin and Alexander Sirota</i> An Algorithm for Multi-Frame Image Super-Resolution under Applicative Noise Based on a Convolutional Neural Network		158
10:30-10:45	<i>Yuri Eremenko, Dmitry Poleshchenko and Yury Tsygankov</i> Prediction of Quality Indicators of Iron Ore Processing Operations Using Deep Neural Networks		166
10:45-11:00	<i>Oleg Nazarkin, Vitalii Vedishchev, Marina Zhuravlyova, Vladimir Alexeev and Pavel Domashnev</i> Selection of Morphological Indicators to Identify Anomalous Areas in Photographic Images of Homogeneous Surfaces		187
11:00-11:15	<i>Olga Ivanova, Igor Zemtsov and Evgeny Minaev</i> Database Integration Based on the Selection of Preliminary Knowledge Using a Semantic Network		200
11:15-11:30	<i>Elena Mazepa and Victoria Dubovskaya</i> Neural Network Modeling in the Construction of Multiple Nonlinear Regression of RTM-diagnostic Data		233

Session AM.3.3 Industrial Applied Mathematics and Modeling – Machine Learning (10:00-11:45)	Chairs Pavel Domashnev Sophiya Rumovskaya Room (zoom) Session AM.3.3	ArtID
11:30-11:45	<i>Daniel Kurushin, Rustam Fayzrakhmanov, Polina Phominykh, Olga Soboleva, Denis Yarullin and Ekaterina Orlova</i> Machine Learning for Building Literary Mapping Geoinformation System	243

Session A.4.1 Automation – Transportation Systems (10:00-12:00)	Chairs Yulia Rizaeva Dmitry Kadasev Room (zoom) Session A.4.1	ArtID
10:00-10:15	<i>Sergey Lyapin, Yulia Rizaeva, Dmitry Kadasev and Irina Kadaseva</i> Models for Ensuring the Minimum Arrival Time of Accident Response Services in Intelligent Transportation and Logistics System	5
10:15-10:30	<i>Vladimir Klyavin, Alexandr Grinchenko, Yulia Rizaeva, Nikolai Baryshev and Natalya Bakhtina</i> Assessing the Quality of Route Vehicle Passenger Transportation	22
10:30-10:45	<i>Mihail Drapalyuk, Vladimir Zelikov, Gennady Denisov, Natalya Zlobina, Vladimir Kliavin and Natalia Zelikova</i> Engineering Methods of Accident Analysis on the Roads of Timber Processing Industry	23
10:45-11:00	<i>Sergey Lyapin, Yulia Rizaeva, Dmitry Kadasev and Anton Simakov</i> Proactive Control of Transport Flows of the Ramps–Mainline System in Intelligent Transportation and Logistics Systems	70
11:00-11:15	<i>Roman Lee, Dmitry Psarev, Andrew Bykonya, Maria Kiba and Anton Melnikov</i> Mathematical Model of Infrared Heating of Body Parts of Cars and Tractors During Restoration with Polymer Materials	75
11:15-11:30	<i>Andrey Pchelnikov, Roman Lee, Andrey Bykonya, Dmitry Psarev and Mariya Kiba</i> Mathematical Model of Tribological Parameters of Contact Between Components of High Longevity Metal–Polymer Angular–Contact Bearing	95
11:30-11:45	<i>Natalia Zyuzina, Ekaterina Markova and Nikita Voronin</i> The Modelling of the Conceptual Subsystem of Assistance to Participants in the Transport Process	107
11:45-12:00	<i>Aleksey Popov, Aleksey Malakhov and Olga Suslova</i> About the Benefits of the Introduction of Shunting Automatic Locomotive Signaling System	127

Session E.3.2 Industrial and Commercial Power and Power Conversion Systems – Energy Systems and Power Systems Engineering (10:00-12:00)	Chairs Violetta Zatsepina Evgeniy Zatsepin Room (zoom) Session E.3.2	ArtID
10:00-10:15	<i>Vladimir Pikalov, Andrey Boykov, Vladislav Znamensky and Sergey Ambrosimov</i> The Electronic Arc Ignition System in the Electric Arc Plasmatron System	80
10:15-10:30	<i>Oleg Shachnev, Alexander Shachnev, Evgeniy Zatsepin and Violetta Zatsepina</i> Providing High-Quality Electricity Using Modern Groups of Electric Consumers	91

Session E.3.2 Industrial and Commercial Power and Power Conversion Systems – Energy Systems and Power Systems Engineering (10:00-12:00)		Chairs Violetta Zatsepina Evgeniy Zatsepin Room (zoom) Session E.3.2	ArtID
10:30-10:45	<i>Alexander Shpigonovich, Violetta Zatsepina and Sergey Astanin</i> Methods for Assessing the Fault Tolerance of Electrical Equipment at Levels of Power Supply Systems		102
10:45-11:00	<i>Natalia Makhianova, Maksim Borodin, Nikita Korenkov and Alexander Semenov</i> The Automatic Filling in the Work Order and Switches Form in the Electric Network Complex		108
11:00-11:15	<i>Aleksandra Varganova and Natalia Anisimova</i> Industrial Thermal Power Plant Permanent Equipment Modeling in Order to Optimize Their Conditions		114
11:15-11:30	<i>Alexander Kustov, Evgeniy Zatsepin and Violet Zatsepina</i> Analysis of Transient Regimes for Single-Phase Short Circuits in Electrical Lines with Isolated and Compensated Neutral		121
11:30-11:45	<i>Anton Eremin, Kristina Gubareva and Andrey Popov</i> Simulation of the Heat Transfer Process of a Moving Fluid in a Plane-Parallel Channel		134
11:45-12:00	<i>Andrey Chernov, Maria Butakova and Alexander Kostyukov</i> Intelligent Decision Support for Power Grids using Deep Learning on Small Datasets		149

Session AM.1.5 Industrial Applied Mathematics and Modeling – Mathematical Foundations of Control Theory (13:00-14:00)		Chairs Alexander Galkin Lyubov Levina Room (zoom) Session AM.1.5	ArtID
13:00-13:15	<i>Svilen Valtchev</i> A meshfree method with domain decomposition for Helmholtz boundary value problems		220
13:15-13:30	<i>Vladimir Burkov, Irina Burkova, Sergey Barkalov and Tatiana Averina</i> Project Risk Management		240
13:30-13:45	<i>Anton Chernukh, Aleksey Sharapov and Aleksey Arzamastsev</i> Study on Fuzzy Models of Thermal Conductivity of Thin Composites Based on Analytical Dependences		244
13:45-14:00	<i>Aleksandr Andreev and Yulia Petrovicheva</i> On the Stationary Rotational Motion Stabilization of an Axisymmetric Satellite in a Circular Orbit		178

Session AM.2.5 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (13:00-15:30)		Chairs Anton Sysoev Marina Zhuravlyova Room (zoom) Session AM.2.5	ArtID
13:00-13:15	<i>Mikhail Kharitonov and Tatyana Kharitonova</i> Simulation Modeling of the Evacuation When the Threat of Flooding		183

Session AM.2.5 Industrial Applied Mathematics and Modeling – Control of Organizational and Socio-Economic Systems (13:00–15:30)		Chairs Anton Sysoev Marina Zhuravlyova Room (zoom) Session AM.2.5	ArtID
13:15–13:30	<i>Elena Kozlova, Maxim Novak and Margarita Karlova</i> Using Nonlinear Multiple Regression Models to Assess the Impact of Labor Resources and Employment on the Gross Regional Product		184
13:30–13:45	<i>Maxim Novak and Elena Kozlova</i> Assessment of the Relationship Between the Sectoral Structure of Employment and GRP in the Lipetsk Region		188
13:45–14:00	<i>Oleg Malafeyev, Nadezhda Redinskikh, Irina Zaitseva, Elena Ostapenko, Alexander Shuvaev and Askat Arzimbekov</i> Non-cooperative Game of Choice of a Participant in a Public Private Partnership Using a Compromise Solution		195
14:00–14:15	<i>Oleg Malafeyev, Mikhail Galtsov, Irina Zaitseva, Pavel Sakhnyuk, Vladimir Zakharov and Roman Kron</i> Analysis of Trading Algorithms on the Platform QUIK		198
14:15–14:30	<i>Andrea Rimondi, Anton Sysoev, Maria Cristina Recchioni and Pavel Saraev</i> Modelling Wealth Inequality: A Structural Vector Autoregression Approach		218
14:30–14:45	<i>Tatiana Goryunova, Valentina Goryunova and Igor Kukhtevich</i> Modeling of Complexly Structured Reporting Forms and Requests in the Tasks of Automated Provision of Public Services		235
14:45–15:00	<i>Vladislav Gusev and Tatiana Dubovaya</i> Models for Assessing the Impact of the Epidemic and Minimizing the Damage Caused, Taking into Account the Economic and Demographic Characteristics of Society		236
15:00–15:15	<i>Vladislav Gusev and Natalia Isaeva</i> Estimation and Administration of the Social and Economic Development of the Resource-Obtaining Region		237
15:15–15:30	<i>Vadim Belousov, Sergey Barkalov, Kirill Nizhegorodov and Alla Polovinkina</i> Dichotomizing Decomposition of Criteria for Evaluation of Complex Organizational and Technical systems		238

Session A.1.4 Automation – Industrial Automation and Control Theory applying to Technological Processes (13:00–15:15)		Chairs Vitalii Vedishchev Vladislav Petrov Room (zoom) Session A.1.4	ArtID
13:00–13:15	<i>Tamara Chistyakova, Olga Shashikhina and Christian Kohlert</i> Computer System for Optimal Planning of Multi-assortment Polymer Films Industrial Production		191
13:15–13:30	<i>Nikolay Makarov, Sergey Rudnev and Ekaterina Plykina</i> Implementation of Digital Sliding Mode in Sampling Servosystem Control		221
13:30–13:45	<i>Hong Quang Le, Victor Putov and Victor Sheludko</i> Adaptive Robust Control of a Multi-degree Electromechanical Object with Elastic Properties		227
13:45–14:00	<i>Tatiana Zablotskaya</i> Analyzing The Classical and Extended Bouc-Wen Model Parameters		229
14:00–14:15	<i>Sergey Frolov, Sergey Sindeev, Artyom Korobov and Anton Potlov</i> Combined Method of Neurocontrol for Nonlinear Non-Stationary Object		231

Session A.1.4 Automation – Industrial Automation and Control Theory applying to Technological Processes (13:00–15:15)		Chairs Room (zoom)	Vitalii Vedishchev Vladislav Petrov Session A.1.4	ArtID
14:15–14:30	<i>Denis Obratsov, Maxim Dutov and Vladimir Chernyshov</i> Active Control of the Catalyst Structure During Sputtering the on Surface of Solid Oxide Electrolytes of Fuel Cells			234
14:30–14:45	<i>Valentin Zhukov, Dmitry Muromtsev and Alexey Gribkov</i> Stability Of A Mimo-System Of Automatic Control Of Phased Array Antennas In Mobile Radio Stations Of MF-HF And VHF Bands			245
14:45–15:00	<i>Valentin Zhukov, Dmitry Muromtsev and Alexey Gribkov</i> A Computational Control Algorithm for Digital Antenna Matching Device			246
15:00–15:15	<i>Angelina Zatsepilova, Tatiana Khagai and Alexei Khagai</i> Study of the Junction of a Slab with a Column of the Beamless Floor			247

Session A.2.3 Automation – Digitalization in Industrial, Economic and Social Systems (13:00–15:45)		Chairs Room (zoom)	Vladimir Alexeev Roman Batishev Session A.2.3	ArtID
13:00–13:15	<i>Anna Lebedeva and Anna Guseva</i> Managing IT Projects and Evaluating Their Cost and Complexity: State of the Problem			128
13:15–13:30	<i>Elizaveta Grebenshchikova, Anton Aksenov and Rustam Fayzrakhmanov</i> Frontrunning Model in the Stock Market			154
13:30–13:45	<i>Daria Ryzhkova and Anatoly Pogodaev</i> Developing Method to Optimize Queries in Denormalized Databases			168
13:45–14:00	<i>Vladimir Alexeev and Pavel Domashnev</i> Development of an Approach to Implement an Electronic Queue System with Multi-stage Customer Service			182
14:00–14:15	<i>Elena Khabibullina and Anatoly Pogodaev</i> The Architecture of the Automated Traffic Flow Control System of Manned and Unmanned Vehicles			185
14:15–14:30	<i>Maxim Goldobin, Andrey Morozov, Dmitry Okonechnikov, Anatoly Yudin and Leonid Yasnitsky</i> Intelligent Quality Management System for Casting Gas Turbine Engine Blades			189
14:30–14:45	<i>Vladimir Alexeev, Natalia Zhbanova, Yury Kachanovskiy, Xenia Kuznetsova, Svetlana Masas and Viola Matrosova</i> Algorithms for Regional Human Resources Capacity Management System			202
14:45–15:00	<i>Ekaterina Orlova</i> A System Approach for Assessing an Economic Efficiency of Technological Innovation			222
15:00–15:15	<i>Valentina Goryunova, Tatyana Goryunova and Yulia Molodtsova</i> Integration and Security of Corporate Information Systems in the Context of Industrial Digitalization			224
15:15–15:30	<i>Svetlana Kolesnikova, Yuriy Paraev and Svetlana Tsvetnitskaya</i> Two Algorithms for Designing Control over Center-of-Mass Motion of a Moving Object with Incomplete Description			228

Session A.2.3 Automation – Digitalization in Industrial, Economic and Social Systems (13:00–15:45)	Chairs Vladimir Alexeev Roman Batishev Room (zoom) Session A.2.3	ArtID
15:30–15:45	<i>Sergey Barkalov, Tatiana Averina, Elena Avdeeva and Yulia Lavrova</i> Current Problems of Digitalization of Housing and Utilities Management in the Context of a Pandemic	242

Session A.4.2 Automation – Transportation Systems (13:00–14:15)	Chairs Roman Lee Anton Butin Room (zoom) Session A.4.2	ArtID
13:00–13:15	<i>Alexander Galkin and Elena Khabibullina</i> Graph-structural Modeling in Traffic Flow Control Task	181
13:15–13:30	<i>Aleksei Rozhnov</i> Investigation of New Features of the Virtual Semantic Environment Prototype in the Development and Application of Infrastructure of Highly Automated and Intelligent Transport Systems	197
13:30–13:45	<i>Sergey Medvedev</i> Comparative Analysis of the Exact and Heuristic Algorithms for Solving the Vehicle Routing Problem for Several Agents among the Objects of Two Types	205
13:45–14:00	<i>Ernest Simonyan, Olga Medvedeva and Sergey Medvedev</i> The Reverse Approach for Generating Maze with Unique Characteristics	206
14:00–14:15	<i>Anton Butin, Mikhail Shipulin and Anna Korneeva</i> New Composite Nanomaterial for Restoration of Autotractor Equipment	210

Session E.3.3 Industrial and Commercial Power and Power Conversion Systems – Energy Systems and Power Systems Engineering (13:45–15:30)	Chairs Violetta Zatsepina Evgeniy Zatsepin Room (zoom) Session E.3.3	ArtID
13:45–14:00	<i>Sergey Dushin, Alexander Abramnikov, Evgeniy Kutyaikov, Alexey Iskakov and Anton Salnikov</i> Developing a Weakly Nonlinear Power System Model Using the Carleman Bilinearization Procedure	151
14:00–14:15	<i>Maksim Annikov, Andrey Kirin and Vasily Gubarev</i> Analysis of the Heat Exchange Process in the Furnace-drying Unit of Continuous Annealing	160
14:15–14:30	<i>Anton Eremin, Kristina Gubareva, Andrey Popov and Konstantin Trubitsyn</i> Simulation of Heat Transfer in a Plane Viscous Fluid Heater	199
14:30–14:45	<i>Yuri Klimenko and Andrei Preobrazhensky</i> Modeling the Control and Monitoring Process in a Distribution Electric Network	217
14:45–15:00	<i>Kaung Myat Htoo and Zayar Aung</i> Investigation of the Operation of a Single-Phase Synchronous Vibration Micro Generator and an Uninterrupted Power Supply Source for Autonomous Objects	219
15:00–15:15	<i>Dmitry Zhmatov</i> Technical Condition Monitoring of Electric Equipment in the Digital Substation	225

Session E.3.3 Industrial and Commercial Power and Power Conversion Systems – Energy Systems and Power Systems Engineering (13:45-15:30)	Chairs Violetta Zatsepina Evgeniy Zatsepin Room (zoom) Session E.3.3	ArtID
15:15-15:30	<i>Karim Moharm and Eero Immonen</i> Big Data Driven Battery Management Systems	248

Session E.2.2 Industrial and Commercial Power and Power Conversion Systems – Power Electronic Devices and Components (14:15-15:45)	Chairs Stanimir Valtchev Yuri Shurygin Room (zoom) Session E.2.2	ArtID
14:15-14:30	<i>Dmitriy Ivanov, Ilya Sandler and Natalya Chertykovtseva</i> Identification of Transmission Line Parameters Using Noisy PMU Measurements	119
14:30-14:45	<i>Alexei Evseev and Sergey Titov</i> A New Way to Control a Static Synchronous Series Compensator Using the Parameters of an Electric Arc Furnace Equivalent Circuit	203
14:45-15:00	<i>Quan Dao Minh and Hung Luu Quang</i> Miniature Power Divider on Artificial Transmission Lines for Marine Applications	214
15:00-15:15	<i>Hung Luu Quang</i> Topology of a Compact Coupler for Antenna Array Power Supply Circuits in Modern Maritime Communications	215
15:15-15:30	<i>Hung Luu Quang</i> Marine MATV Systems Use a 3 dB Reduction Coupler with Broadband	223
15:30-15:45	<i>Yuri Kalachev, Philipp Baum, Vladislav Lantsev and Evgeny Okulov</i> Electric Drives, Simulation and Coding	226