

A banner image at the top of the page showing a person's hands holding a tablet with a futuristic interface, overlaid on a background of a robotic arm and various technical icons like gears, a lightbulb, and a power plug.

SUMMA2020



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

SUMMA2020 CONFERENCE PROGRAM

Venue: Russia, Lipetsk (VIRTUALLY)



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 SARAEV, 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 SARAEV
	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, Universidade Nova 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

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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
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12:00 – 13:00 (MSK, UTC+3)	Coffee Break	
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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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