8th International Conference on
Control Systems, Mathematical Modeling,
Automation and Energy Efficiency



SUMMA2026
CONFERENCE PROGRAM

November 11-13, 2026 | Russia, Lipetsk

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SUMMA2026 CONFERENCE

The 8th International Conference on Control Systems, Mathematical Modeling, Automation and Energy Efficiency (SUMMA2026) focuses on the wide range of topics related to Control Systems and Mathematical Modeling, Automation and using advanced knowledge in the Power Industry to solve scientific and practical production problems. Traditionally the conference is jointly organized by V.A. Trapeznikon Institute of Control Sciences RAS and the Institute of Computer Sciences of Lipetsk State Technical University.

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.

SUMMA2026 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 and Artificial Intelligence*

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 2026

[Join Opening Ceremony (via Contour Talk)]

10:00 – 10:30 (MSK, UTC+3)	Opening Ceremony
10:30 – 12:50 (MSK, UTC+3)	Plenary Session — Chair Prof. Pavel SARAEV
	Stanimir VALTCHEV, Prof. *Portugal, Lisboa, Universidade Nova de Lisboa* Is it Possible to Decarbonize our Planet?
	Zhang XIEFU, Dr., *P.R. China, Liaoyang, Benxi, Liaoning Institute of Science and Technology* A Conservative Memristive Chaotic System with Extreme Multistability and Its Application in Image Encryption
	Oleg DRANKO, D.Sc., Associate Prof. *Russia, Moscow, V.A. Trapeznikov Institute of Control Sciences RAS* From Macroeconomics to Enterprise Control: Identifying Growth Points
	Vladimir PAVLOVIĆ, Lidija TOMIĆ, Dr., *Serbia, Belgrade, Civil Aviation Directorate of the Republic of Serbia* Olja ČOKORIL, Dr., Prof. *Serbia, Belgrade, University of Belgrade* An Integrated Safety Management Approach in eVTOL Operations
12:50 – 13:30 (MSK, UTC+3)	Dinner
13:30-15:15 (MSK, UTC+3)	Plenary Session — Chair Prof. Pavel SARAEV
	Tatyana SINYUKOVA, Cand.Sc., Associate Prof. *Russia, Lipetsk, Lipetsk State Technical University* Study and Damping of Vibrations Arising in the Electromechanical System of Mechanisms Moving Loads on a Flexible Suspension
	Dmitry POLESHCHENKO, Cand.Sc., Associate Prof. *Russia, Stary Oskol, Stary Oskol Technological Institute named after A.A. Ugarov (Branch) of National University of Science and Technology «MISIS»* Vibration Acceleration Signal Analysis for Assessing the Operating Mode of Complex Mining and Metallurgical Facilities
	To be announced
15:30-17:00 (MSK, UTC+3)	Section Sessions

Thursday, November, 12 2026

10:00 – 12:00 (MSK, UTC+3)	Section Sessions
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12:30 – 15:00 (MSK, UTC+3)	Section Sessions
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Friday, November, 13 2026

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13:25 – 13:40 (MSK, UTC+3)	Closing Ceremony

DETAILED PROGRAM

Wednesday, November, 11 2026

(Moscow time, UTC+3)

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Thursday, November, 12 2026

(Moscow time, UTC+3)

Join Session (via Contour Talk)

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