7th International Conference on
Control Systems, Mathematical Modeling,
Automation and Energy Efficiency

SUMMA2025
CONFERENCE PROGRAM

November, 12-14, 2025 | Russia, Lipetsk

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ЭКСПОНЕНТА ЦЕНТР ИНЖЕНЕРНЫХ ТЕХНОЛОГИЙ И МОДЕЛИРОВАНИЯ
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SUMMA2025 CONFERENCE

The 7th International Conference on Control Systems, Mathematical Modeling, Automation and Energy Efficiency (SUMMA2025) 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 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.

SUMMA2025 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, 12 2025

[Join Opening Ceremony (via Contour Talk)]

10:00 – 10:30 (MSK, UTC+3)	Opening Ceremony
	Dmitry POMOTILOV, Acting Rector *Russia, Lipetsk, Lipetsk State Technical University* Pavel SARAEV, D.Sc., Associate Prof. *Russia, Lipetsk, Lipetsk State Technical University* Dmitry NOVIKOV, Academician of RAS, D.Sc., Prof. *Russia, Moscow, V.A. Trapeznikov Institute of Control Sciences RAS* Stanimir VALTCHEV, Prof. *Portugal, Lisboa, Universidade Nova de Lisboa*
10:30 – 13:10 (MSK, UTC+3)	Plenary Session Chair Prof. Stanimir VALTCHEV
	Stanimir VALTCHEV, Prof. *Portugal, Lisboa, Universidade Nova de Lisboa* Present and Future of the Energy Transition
	Vadim ALEXANDROV, Cand.Sc. *Russia, Moscow, V.A. Trapeznikov Institute of Control Sciences RAS* Control System for Quadcopter Flight: Problems and Solutions
	Pavel SARAEV, D.Sc., Associate Prof. *Russia, Lipetsk, Lipetsk State Technical University* Regularization and its Development in Mathematical Remodeling
	Anton SYSOEV, Cand.Sc., Associate Prof. *Russia, Lipetsk, Lipetsk State Technical University* Sensitivity Analysis Based on Analysis of Finite Fluctuations
13:10 – 14:10 (MSK, UTC+3)	Dinner
14:10-15:30 (MSK, UTC+3)	Plenary Session Chair Prof. Pavel SARAEV
	Olga GORBANEVA, D.Sc., Associate Prof. *Russia, Rostov-on-Don, Southern Federal University of Control Sciences RAS* Role of Economic Factor in Demographic Planning
	Alexei EVSEEV, Cand.Sc. *Russia, Moscow, Center for Information Technologies and Modeling «Exponenta»* Model-based Design of EAF Using the Engee Platform
15:30-17:00 (MSK, UTC+3)	Discussion on the Capabilities of Engee Platform for Technical Computing, System Modelling, and Hardware-in-the-Loop Testing

Thursday, November, 13 2025

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12:00 – 12:30 (MSK, UTC+3)	Coffee Break
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Friday, November, 14 2025

10:00 – 12:00 (MSK, UTC+3)	Section Sessions
12:00 – 12:15 (MSK, UTC+3)	Closing Ceremony

DETAILED PROGRAM

Thursday, November, 13 2025

(Moscow time, UTC+3)

Join Session (via Contour Talk)

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