

# XXV INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND MEASUREMENTS

## SCM'2022

St. Petersburg, Russia

May 25-27, 2022

## INFORMATION LETTER

The XXV International Conference on Soft Computing and Measurement (SCM'2022) will take place on May 25 - 27, 2022 at Saint Petersburg Electrotechnical University "LETI", St. Petersburg, Russia. (SCM'2022).

### TOPICS OF THE CONFERENCE

#### METHODS AND SYSTEMS OF ARTIFICIAL INTELLIGENCE AND SOFT COMPUTING

Mathematical Foundations of Artificial Intelligence  
Artificial Neural Networks. Neurocomputing  
Strong Artificial Intelligence  
Machine Learning  
Neuromorphic Calculations and Technologies  
Cognitive Science and Technology  
Probabilistic Models and Calculations  
Multi-agent Systems  
Distributed Artificial Intelligence  
Natural-like Algorithms and Models for Artificial Intelligence Systems  
Standardization in the Development and Application of Artificial Intelligence  
Uncertainty in Artificial Intelligence Methodologies and Computing  
Data Mining (Big Data, Data Science, Business Intelligence)  
Cloud Computing and Measurements

#### MEASUREMENT THEORY.

##### METHODS AND TOOLS OF MEASUREMENT

General Measurement Theory. Uncertainty in Measurements.  
Measures and Scales. Metrology  
Bayesian Approach and Optimization of Solutions  
Methods and Tools of Intelligent Measurement and Computing  
Soft Measurements  
Non-quantitative Measurements  
Smart and Intelligent Sensors and Sensory Systems  
Intelligent Measuring Systems  
Virtual Sensors and Cloud Computing  
Optical Measurement Means  
Acoustic Measurements  
Biosensors and Bio-measurements  
Psychometric Measurements  
Distributed Measuring Systems  
IoT Methods and Systems

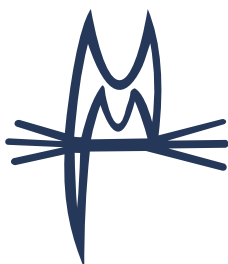
##### APPLIED ARTIFICIAL INTELLIGENCE AND MEASUREMENT SYSTEMS

Industria 4.0 Application Systems  
Application Systems Based on Soft Computing and Measurement  
Application of Artificial Intelligence in Solving Cybersecurity Problems  
Intelligent Robots and Autonomous Systems  
Artificial Intelligence and Measurements in Industry  
Artificial Intelligence and Measurements in Economy  
Application of Artificial Intelligence in Medicine. Artificial Intelligence Systems for Integrative Physiology  
Application of Artificial Intelligence in Agriculture sector and Ecology  
Application of Artificial Intelligence Systems and Intelligent Measurements for Sustainable Development of Territories  
Ethics and Safety of Artificial Intelligence

#### ORGANIZERS

- Ministry of Science and Higher Education of the Russian Federation
- Institute of Electrical and Electronics Engineers IEEE Russia North West Section
- Saint Petersburg Electrotechnical University «LETI»
- Lomonosov Moscow State University
- Financial University under the Government of the Russian Federation
- International Fuzzy Systems Association
- Russian Association for Artificial Intelligence
- Russian Association for Fuzzy Systems and Soft Computing

Russian and English are the official languages of the conference.



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## SESSIONS

1. General Measurement Theory. Metrology, Measures and Scales. Uncertainty in Measurements.
2. Probabilistic Methods in Information Processing. The Bayesian Approach.
3. Systems Simulation. Complex Objects Control Under Uncertainty.
4. Neurocomputing Networks and Neurotechnologies.
5. Models and Methods for Artificial Intelligence Systems. Cognitive Systems.
6. Fuzzy Methods and Systems.
7. New Approaches in Measurements: Intellectual, Soft and Fuzzy Measurements.
8. Intelligent Measurements Systems and Sensors.
9. Technologies and Systems BIG DATA, Data Science, Business Intelligence.
10. IoT and Industrial 4.0. Technologies and Systems.
11. Artificial Intelligence and Measurements in Industry, Ecology and Economics.
12. Artificial Intelligence Systems for Integrative Physiology.
13. Application of Methods and Systems of Artificial Intelligence and Measurements in Agricultural Complexes for Sustainable Development of Territories.

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The Conference Proceedings will be published digitally and distributed among the participants at the opening of the Conference. Conference proceedings will be submitted for placement in the IEEE Xplore digital library. The final placement decision is made by the IEEE!

## CONFERENCE FEE

Conference fee for participants who are not citizens of the Russian Federation - **250 \$ USA**.

Attention! Payment of the Conference fee should be made only after confirmation of paper acceptance received from the Program Committee. No refund is possible!

If you are going to pay through the organization, you should contact the Organizing Committee in advance so that payment can be made not later than April 19!

Requisites for banking transfer will be sent via e-mail after the Organizing Committee confirms the acceptance of the paper for presentation and publication.

## CONTACTS

Saint Petersburg Electrotechnical University "LETI"

Conference Center

Ul. Professora Popova, 5, 197376, Saint-Petersburg,

The Russian Federation

## INFORMATION FOR AUTHORS

Until **April 1, 2022** - participants register to the Conference.

Until **April 4, 2022** - the authors submit papers.

Until **April 18, 2022** - submitted papers will undergo peer review. The Program Committee will inform authors on acceptance/rejection of papers for presentation and publication.

Until **April 25, 2022** - the authors submit final full papers.

Until **May 10, 2022** - after receiving confirmation of paper acceptance, authors should pay the Conference fee.

Until **May 12, 2022** - please send an information about the authors who will participate in the Conference to [irvc.eltech@mail.ru](mailto:irvc.eltech@mail.ru).

*The Program and Organizing committees reserve the right to reject the application for participation in the conference.*

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