



**Rostov State Transport University (Russia)**  
**VŠB – Technical University of Ostrava (Czech Republic)**  
**Russian Association for Artificial Intelligence**

3-rd International Scientific Conference  
**“Intelligent information technologies for industry” (IITI’18)**  
**(September 17-21, 2018, Sochi, Russia)**

### **CALL FOR PAPERS**

Dear colleagues!

On behalf of the Program Committee and Organizing Committee We have a great pleasure to invite you to the Southern Russia for the IITI’18 Conference. This event will be the 3rd Conference of the series on intelligent information technologies for industry. It is organized by the Rostov State Transport University (Russia) and VŠB – Technical University of Ostrava (Czech Republic) under support of the Russian Foundation for Basic Research.

The purpose of the International scientific conference «**Intelligent Information Technologies for industry**» is to bring together the international advanced experience in the field of the development and implementation of the modern techniques in automation, informatization and artificial intelligence in fundamental and applied sciences as well as the development of contacts in this sphere. The innovative intelligent information technologies are of particular interest at the conference.

The organizing committee of the conference is inviting you to publish papers reflecting the significant scientific interest with novelty in all aspects of computer modeling and simulations. All submissions will be thoroughly peer-reviewed by multiple reviewers. Proceedings of IITI’18 conference will be published in Springer series Advances in Intelligent and Soft Computing. It will be indexed by Thomson ISI, SCOPUS and DBLP. The extended versions of the best papers presented at this conference will be considered for publication in a Special Issues of international recognized journals.

### **Topics of interest**

- Knowledge representation models and knowledge discovery techniques

- Data mining
- Fuzzy sets, fuzzy relations and related formalisms
- Evidence and possibility theories
- Non-classical logic and plausible inference
- Non-factors modeling in intelligent systems
- Soft computing and measurement, computational intelligence
- Linguistic models and granular computing, linguistic and percept measures
- Decision making and intelligent systems for decision making
- Multisets and fuzzy multisets
- Hybrid fuzzy and probability models
- Algebraic Bayesian networks and trust networks
- Neural networks, neuroinformatics and neurointelligence
- Cognitive modeling and cognitive agents
- Classification, recognition and training
- Evolutional modeling, bionic and genetic algorithms
- Multiagent systems and distributed AI
- Artificial life, swarm intelligence, adaptive behavior
- Applied intelligent dynamic systems
- Automation and intellectualization for industrial systems
- Automation and intellectualization for transport systems
- Automation and intellectualization for telecommunications systems
- Automation and intellectualization for drives systems
- Automation and intellectualization for energetic systems
- Information safety and security
- Intelligent information technologies for education
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### **Conference sections**

- Artificial Intelligence
- Machine learning applications
- Computer science and technology
- Automation and intellectualization in industrial and energy systems
- Automation and intellectualization in transport systems
- Automation and intellectualization in telecommunications systems

## **ORGANIZATION**

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- Vladimir V. Kureychik, Southern Federal University, Russia
- Yuri I. Rogozov, Southern Federal University, Russia
- Zdeněk Peroutka, University of West Bohemia, Czech Republic

## **VENUE**

The conference will be held in Sochi.

## **PAPER SUBMISSION**

Papers reporting original and unpublished research results on the above and related topics are solicited. All submitted papers will be refereed for quality, originality and relevance by the Program Committee. The acceptance/rejection of the papers will be based on the review results. All questions should be addressed to contact e-mail. An electronic version (PDF format) of the full paper should be submitted by the paper submission deadline to the conference website. Manuscripts should be provided according to the guidelines given at the following link where you can find the necessary styles and information:

<http://www.springer.com/series/11156>

(If this link does not work for you, go to <http://www.springer.com>, search for series "Advances in Intelligent Systems and Computing" and follow the link "Instructions for Authors" to the right)

Further information is available on the conference website: [iiti.rgups.ru/en/](http://iiti.rgups.ru/en/)

## **IITI'18 CONTACTS**

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