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## Preface

The 1st International Workshop on Information, Computation, and Control Systems for Distributed Environments (ICCS-DE 2019) was held July 8-9, 2019 at the Matrosov Institute for System Dynamics and Control Theory (ISDCT) of the Siberian Branch of the Russian Academy of Sciences (SB RAS), Irkutsk, Russia (<https://iccs-de.icc.ru/>). It addresses the theory and practice in developing information, computation, and control systems related to different subject domains of information, technical, economic, and other fields of human activity. Special attention was paid to the systems that function in various distributed environments.

Within the workshop, the topics for discussion were grouped into the following key directions:

- Theoretical foundation of information, computing, and control systems,
- Methods, tools, and technologies of the system development,
- Development and application of systems in computer science,
- Mathematical modeling of systems,
- Control systems,
- Decision support systems,
- Intelligent systems,
- Multi-agent systems,
- Parallel and distributed computing systems.

Twenty-eight participants from four countries related to holding the workshop. All submitted papers were evaluated based on their originality, novelty, quality, and technical contribution. Based on the reviews, we accepted 10 papers for the presentation at the workshop and publication in this volume. All accepted papers were represented orally.

In the future, we expect to increase the number of workshop participants from different countries in order to discuss new ideas and approaches related to creating information, computation, and control systems for distributed environments.

July 2019

Igor Bychkov  
Andrei Tchernykh

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### **Program Committee Chair**

Igor Bychkov, Matrosov Institute for System Dynamics and Control Theory of the Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia

### **Program Committee Members**

Andrei Tchernykh, CICESE Research Center, Ensenada, Mexico

Denys Dutykh, University of Savoie, France

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