

## 1. Abstract

This issue of the journal is dedicated to the scientific and applied research presented at the II International Conference "Cognitive Robotics". The conference was held on November 22–25, 2017 in Tomsk (Russia).

The conference is organized by:

The Russian Foundation for Basic Research.

National Research Tomsk State University. Tomsk, Russia.

National Research Tomsk Polytechnic University. Tomsk, Russia.

JSC Scientific-Research Institute of Semiconductor Devices, Tomsk; Russia.

Polzunov Altai State Technical University; Barnaul, Russia.

Karaganda State Technical University, Karaganda, Kazakhstan.

Information Satellite Systems named after Academician MF Reshetnev.

Association of Innovative Enterprises and Organizations of Tomsk and Tomsk Region.

“Radio-wave imaging” JSC. Tomsk, Russia.

Anhalt University of Applied Sciences, Germany.

Sponsors: National Instruments Corporation (USA).

CONFERENCE SECTIONS: 1. Cognitive technologies and artificial intelligence in control systems for land and air-based robotic systems, and robotic submarines. 2. Sensing technology for land and air-based robotic systems, and robotic submarines. 3. Design of robotic systems (UAVs, AUVs). 4. Psycho-emotional and socio-humanitarian aspects of robotics. 5. Educational robotics

## 2. Committee:

Conference chairman: Vladimir I. Syryamkin, D.Eng.Sc., professor, Head of the Department of Quality Control of the Faculty of Innovative Technologies, National Research Tomsk State University; academician of International Academy of Sciences of Higher Education and Russian Academy of Natural Sciences; Director of TSU scientific and educational center «Recognition: navigation, diagnostics, mechatronics».

Conference co-chairman - Eduard V. Galazhinsky, Doctor of Science (Psychology), Professor, academician of the Russian Academy of Education, Rector of Tomsk State University, Professor.

Conference co-chairman – Stanislav V. Shidlovskiy - D.Eng.Sc., Dean of the Faculty of Innovative Technologies of National Research Tomsk State University; Head of the Laboratory of high-performance reconfigurable systems (NR TSU); Professor of Tomsk Polytechnic University.

3. The Organizing Committee of the II International Conference "Cognitive Robotics" wishes to thank the IOP Conference Series Materials Science and Engineering-Team for collaboration.

