

JOURNAL of AUTOMATION, MOBILE ROBOTICS and INTELLIGENT SYSTEMS

A quarterly focusing on new achievements in the following fields:

- Fundamentals of automation and robotics • Applied automatics • Mobile robots control • Distributed systems • Navigation
- Mechatronic systems in robotics • Sensors and actuators • Data transmission • Biomechatronics • Mobile computing

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Editorial

The second issue of **Journal of Automation, Mobile Robotics and Intelligent Systems** is focused on scientific and industrial collaboration within the area of new and currently emerging technologies. It should be indicated that the real technological break-through is not possible without a fundamental research. On the other hand, practical solutions implemented in a short time are the most important goal of all industrial activities. As a result, fundamental researches are often neglected in the industrial practice. These facts indicate strong necessity of close cooperation between industry and research centres. Only such cooperation may strengthen European industry to keep it globally competitive. Moreover, industrial cooperation is very important for academic centres. In close cooperation with regional and European industry, students may be trained accordingly with the requirements of their further employers.

Second issue of our journal is published in the time, which is very important for European scientific society. Just few weeks ago, the first call of the 7th Framework Program of European Commission has closed. Many industrial research and academic centres, also from EU new member states and candidate countries, have submitted their competitive proposals, and all of them are waiting for the results of evaluation. Moreover, the next call of the 7FP is scheduled for this autumn, which gives us new, fresh impetus to proposal preparation and strengthens the cooperation with the industry.

This issue of **Journal of Automation, Mobile Robotics and Intelligent Systems** presents the selection of papers covering mainly the different aspects of mechatronics, advanced manufacturing processes, robotics, modelling and simulation, as well as sensing technologies. We believe that our journal will provide a recent and useful knowledge for active researchers and engineers, as well as it will be the platform for mutual exchange of the knowledge between industrial and research teams.

Roman Szewczyk, PhD Eng.

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