Recent Advances in Visual Sensor Networks for Robotics and Automation

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Deadline for manuscript submissions:
closed (20 March 2022)

Message from the Guest Editors

Dear Colleagues,

The development of low-cost high-resolution imaging sensors, the wide spread of IoT technologies, and the renewed methodological interest in networked systems are leveraging the transformation of traditional vision systems into ubiquitous and pervasive multiagent visual sensor networks, whose sensing capabilities act synergistically with the actuation capabilities.

In particular, by acquiring information-rich data within a sense-to-act, act-to-sense paradigm, these multiagent architectures play a crucial role in the robotics and automation fields...

This Special Issue on Sensors and Robotics aims at putting together novel contributions on multiagent visual sensor networks where emphasis is placed on the dynamic characteristic of the information and of the systems, which may be induced by the nature of the observed scene, by that of the observing agents, or by both. Along this trendline, possible topics of interest include but are not limited to:

- Cooperative robotics;
- Active and mobile sensing;
- Vision-based learning for control;
- Context aware automation;
- Multicamera networks.

Special Issue

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Message from the Editor-in-Chief

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