

Special Issue

Situationally Aware Mobile Robots

Message from the Guest Editors

Robotics plays a pivotal role in expanding the competitiveness of all sectors of the economy, as well as offering new solutions to societal challenges. While industrial robots typically perform repetitive tasks, operating in industrial settings where the world is designed around them, service robots assist humans at work in non-industrial settings or at home, operating in complex dynamic unstructured environments. Robots need to continuously acquire complete situational awareness in such environments (i.e., perceiving the environment within time and space, comprehending its meaning, and responding to it for future adaption) to enable intelligent decision-making and autonomous task execution. This Special Issue of *Sensors* aims to present cutting-edge research proposing intelligent localization, mapping, and navigation techniques for mobile robots, harnessing metric, semantic, and topological relations while ensuring scalability in large-scale, real-world environments. For detailed information, please visit [here](#).

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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