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Sensor Networks Applications in Robotics and Mobile Systems

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Message from the Guest Editors

Several automated and autonomously operating systems require a network of spatially dispersed sensors to obtain reliable information for their operation. Sensor networks enable better coverage and real-time sensing in complex environments that cannot be reliably achieved by a single sensor.

Examples of use cases can be found in industrial applications such as process automation or robotic cells that operate in complex environments. Furthermore, such problems are often met in serving robotic applications for solving tasks related to control, localization and navigation of delivery robots, house-keeping robots, or in autonomous mobile robots, such as automated guided vehicles in warehouses, self-driving vehicles, agriculture, research and rescue missions, and so on.

This Special Issue on sensor networks welcomes contributions on recent developments that include but are not limited to the following topics: new sensor networks developments, innovations in theory, algorithms, reviews or interesting applications from environment awareness, object tracking, localization, SLAM, control tasks in automation, robotics, mobile robotics, and autonomous system design.



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Special Issue



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Message from the Editor-in-Chief

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