Special Issue

Frontiers in Mobile Robot Navigation

Message from the Guest Editor

Robot navigation remains one of the fundamental topics within the robotics research field. Although many techniques have already been developed, still new techniques appear with the aim to increase the level of autonomy in robot navigation, as well as increase the levels of abstraction, to more closely resemble the way humans navigate with those who are destined to share environments, tasks and communicate. The objective of this Special Issue is to collect current and future trends in robot navigation in all research areas and levels. These trends include geometric navigation techniques, including geometric modeling and environment modeling. Hybrid and topological navigation techniques are also included with new techniques, such as those used for information on maps, based on multiple levels and new ways of exploring the environment. Finally, the incorporation and handling of semantic information is contemplated. In short, it is about establishing new frontiers in terms of perception of the environment, modeling of the environment, location, planning and navigation of robots in an environment, both indoors and outdoors.

Guest Editor

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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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