Special Issue

Artificial Intelligence in Robotics Navigation

Message from the Guest Editors

Robotic positioning and navigation is an established research field topic: emerging indoor positioning technologies, like Wi-Fi or BLE fingerprinting or visible light communications, are introducing newcomers to this research field. Although there are many well-know deterministic and probabilistic models for indoor positioning technologies, some novel approaches are using state-of-the-art machine and deep learning models to find hidden patterns in the raw data, improve knowledge on this topic, and reduce positioning errors. This Special Issue encourages authors, from academia and industry, to submit new research results about positioning and navigation models based on machine learning for robotic systems. The topics include but are not limited to the following:

- Fingerprint-based positioning;
- Inertial-based positioning;
- Positioning-based visible light communications;
- Angle of arrival determination;
- Clustering;
- Anomaly detection;
- Regression;
- Sensor fusion;
- Collaborative positioning;
- Novel applications based on machine/deep learning and positioning data.

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Message from the Editor-in-Chief

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