Special Issue

Multi-Sensor and Multi-Modal Place Localization

Message from the Guest Editors

Recently, visual localization techniques have greatly benefited from the rise of deep learning through novel approaches for image retrieval, pose regression, 3D registration, and deep keypoint matching. Despite this significant progress, many use-cases and challenges remain to be addressed, such as noise, illumination, and viewpoint invariance. Under these adverse conditions, long-term localization would significantly benefit from the use of multimodal sensors. However, computer vision solutions specifically designed for multisensory platforms remain poorly investigated. Furthermore, other applications, such as multi-agent localization, have so far attracted little attention despite considerable practical implications. This Special Issue of *Sensors* aims to collect review articles and original research papers in the field of place localization with an emphasis on multisensory data. Potential topics include but are not limited to the following:

- Visual localization
- multisensor localization
- Hierarchical localization
- Pose estimation
- 3D registration

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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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