# Special Issue

# Deep Learning for Simultaneous Localization and Mapping (SLAM)

## Message from the Guest Editors

Simultaneous Localization and Mapping (SLAM) is a fundamental problem in mobile robotics that allows a robot to localize itself against a previously unseen environment while simultaneously constructing a representation of it. With the recent resurgence in deep learning techniques, challenges in the traditional-geometry-based SLAM have been addressed with learning-based techniques. Similarly, the multiview localization capability of SLAM has been exploited to learn better models. While progress is being made in traditional-geometry-based SLAM techniques, deep learning introduces a new set of tools that can be leveraged to further improve the performance of SLAM systems. This Special Issue focuses on Simultaneous Localization and Mapping in general and encourages submissions that further the state of the art of both geometry-based SLAM and methods that focus on how deep learning can help SLAM.

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## Deadline for manuscript submissions

closed (31 August 2021)

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