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Computer Vision for Mobile Robotics

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Deadline for manuscript submissions:
closed (20 November 2021)

Message from the Guest Editor

Over the last few years, mobile robots have participated in more and more complex tasks. The partial or total autonomous functioning of any sophisticated mobile robotic vehicle must be provided with computer vision as well as machine learning algorithms for video analysis. The movement in an indeterminate and dynamic environment requires the completion of location and navigation tasks based on the study of the robot's three-dimensional surroundings.

This Special Issue (SI) on “Computer Vision for Mobile Robotics” will bring together the research communities world-wide interested in all aspects of computer vision for mobile robotics.

Topics of interest include (but are not limited to):

- Vision systems for mobile robots
- Visual sensing and perception in mobile robotics
- Computer vision for mapping and self-localization in mobile robotics
- Computer vision for recognition and location in mobile robotics
- Computer vision for navigation and planning in mobile robotics
- Computer vision for tracking in mobile robotics
- Visual servoing in mobile robotics

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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