Active Methods in Autonomous Navigation

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

The goal of this Special Issue on "Active methods in autonomous navigation" (2023 ICRA, https://robotics.pme.duth.gr/workshop_active2/) is to invite the submission of papers related to autonomous navigation based on active perception or action and perception-coupled methods. Topics of interest for this workshop and the associated Special Issue include (but are not limited to) papers describing active solutions in a series of areas:

Autonomous navigation; Perception–action coupling; Driverless cars; Unmanned aerial vehicles (UAVs); Size, weight, area and power (SWAP)-aware design; Bio-inspired navigation; Planetary exploration; Swarm behavior; Social navigation; Semantic mapping and navigation; Visual place recognition; Simultaneous localization and mapping (SLAM); Visual odometry; Hyper-dimensional computing for perception; Human action recognition; Space robotics.

Guest Editors

Special Issue

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Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.

It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

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