Special Issue

Vision-Based and LiDAR-Based Navigation Systems for Spacecraft and Autonomous Vehicles

Message from the Guest Editors

Contributions to this Special Issue are welcomed in the field of attitude and position measurement systems, in particular vision-based and LiDAR-based, for two main applications: the proximity navigation of spacecraft and the autonomous navigation of vehicles in unstructured environments. The importance of relative navigation between satellites and spacecraft is continuously growing since the number of possible applications is increasing, for instance, the flight formation of a set of small satellites, rendezvous and docking for satellite maintenance or for end-of-life operations and space debris mitigation. A growing interest for rover navigation in unstructured environments and, in particular, for in situ operations for planetary exploration is being demonstrated by several planned mobile robotic missions in the upcoming years, such as ESA Mars2020, NASA Mars2020, ROSCOSMOS Luna-25 and DLR/JAXA Mars Moons exploration.

Guest Editors

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Deadline for manuscript submissions

closed (20 July 2023)



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