

## Special Issue

# Robotics Vision in Challenging Environment and Applications

### Message from the Guest Editors

Recently, mobile robots, unmanned systems, etc., have been widely applied in various environments and applications, imposing great challenges on autonomous functions of these systems. Various sensors, such as the electrical optical camera, RGBD camera, and LiDAR, are applied to robot systems to demonstrate their effectiveness in environment sensing and autonomous task execution. This Special Issue aims to address issues involving sensing, perception techniques that favor unmanned systems, and robots to operate in challenging environments, which include aviation, aerospace, water surface, underwater, jungles, tunnels, etc. We invite scholars in the field of unmanned system perception to present their research results, exchange scientific research experiences, and lead the research of robot perception technology for better development.

#### Keywords

- image processing
- point cloud processing
- information fusion
- target tracking
- target recognition
- event camera
- SLAM
- reactive control
- perception-aware control

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### Deadline for manuscript submissions

closed (15 June 2023)



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*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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