



## Robotics Vision in Challenging Environment and Applications

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### Message from the Guest Editors

Dear Colleagues,

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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## Editor-in-Chief

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## Message from the Editor-in-Chief

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