

## Special Issue

# Image Processing and Visual Recognition for Adverse Weather Sensing and Monitoring

### Message from the Guest Editors

Vision-based perception systems are now widely applied in intelligent sensing scenarios such as autonomous driving, robotics, and surveillance. However, adverse weather conditions, including rain, fog, snow, and low light, can significantly degrade the quality of images captured by vision sensors. This degradation often leads to a substantial decline in the performance of downstream visual recognition tasks, such as object detection, semantic segmentation, and scene understanding. This Special Issue aims to showcase recent advances in robust image processing and visual recognition techniques designed to address the challenges posed by adverse weather conditions. We invite research and review articles that focus on improving the robustness and performance of vision-based sensing systems through image restoration and enhancement, sensor fusion, and deep learning-based approaches.

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### Deadline for manuscript submissions

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## Sensors

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