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Advancements in Sensing and Perception for Autonomous Vehicles in Adverse Environmental Conditions

Guest Editor:

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Deadline for manuscript submissions:

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Message from the Guest Editor

Dear Colleagues,

The evolution of autonomous vehicles is inextricably linked to the sophistication of their perception systems. Specifically, a significant and persistent challenge in this field lies in the performance of perception systems under adverse weather conditions.

Topics of Interest:

- 1. Enhanced Sensor Technologies;
- 2. Al and Deep Learning in Data Interpretation;
- 3. Sensor Fusion and Data Integration;
- 4. Real-Time Data Processing Architectures;
- 5. Simulation, Validation, and Robustness Testing;
- 6. End-to-End System Optimization;
- 7. Case Studies and Applications.

We are inviting you to contribute articles, perspectives, and reviews addressing the abovementioned topics, offering both theoretical insights and practical solutions to the challenges faced in optimizing perception systems for autonomous vehicles. This includes advancements in both hardware and algorithms, with a special focus on performance in adverse weather conditions.

Dr. Zhenyi Liu Guest Editor











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Editor-in-Chief

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Message from the Editor-in-Chief

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