# Special Issue

# Multimodal Data Fusion and Computational Optimization for Intelligent Perception

### Message from the Guest Editors

Multimodal data fusion is now applied to all areas of intelligent perception, providing a new path for further improvements in perception and understanding. Research on multimodal data fusion has driven the application of related algorithms and techniques in areas such as automatic driving, remote sensing, and industrial internet. Although this topic brings multiple benefits to a variety of applications, it still faces many problems and challenges, such as insufficient fused data types, highly customized fusion methods, and time-consuming fusion algorithms. The methodology of multimodal fusion and its applications also need to be further optimized. We look forward to the latest research findings that suggest theories and practical solutions for multimodal data fusion and its applications. The topic of interest include but are not limited to:

- Methodology of multimodal fusion;
- Visible and infrared image fusion;
- Image and point cloud fusion;
- Radar–camera fusion;
- Autopilot multimode sensing;
- Multimodal remote sensing data fusion and application;
- Object detection and semantic segmentation;
- Anomaly detection;
- Design of a lightweight multi-mode fusion method.

### Guest Editors

Prof. Dr. Tao Shen

Prof. Dr. Lei Zhang

Prof. Dr. John Wang

### Deadline for manuscript submissions

closed (15 April 2024)

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## Editor-in-Chief

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