Multi-Modal Learning for Multimedia Data Analysis and Applications

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Message from the Guest Editors

The advance of data collection, transmission and storage has generated the explosive growth of multi-source, multi-view, or multi-modal multimedia data. Face image, fingerprint, palm print, and iris have been used for face recognition. Object tracking exploits RGB images, pseudo depth images and thermal infrared images to improve reliability and accuracy of autonomous driving systems.

This special issue seeks the latest advances towards novel theory, architecture and algorithm design in multi-modal data analysis for pattern recognition, computer vision, and their novel applications. We hope these advances can improve the accuracy, robustness, and efficiency of multi-modal data analysis. The following lists contain topics of interest (but not limited to):

- Novel multi-modal learning for multimedia applications
- Novel multi-modal learning theories
- Optimization for multi-modal multimedia data analysis techniques
- Fast solvers for large-scale multi-modal data
- Incomplete multi-modal learning methods
- Unsupervised/semi-supervised multi-modal learning methods
- Deep multi-modal learning methods
- Incorporating new mathematical techniques in multi-modal data analysis

Special Issue

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Message from the Editor-in-Chief

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