Special Issue

Multimodal Data Analysis in Computer Vision

Message from the Guest Editors

In less than a decade, breakthroughs in machine learning and artificial intelligence have profoundly impacted our scientific community. Computer vision is one of the research fields that has benefited the most from these advances. Combining multimodal sources with visual data has the potential of improving artificial visual systems by harnessing information that is complementary but related to the observed scene. However, there are several aspects related to multimodal learning that have not been sufficiently explored yet: How do learned visual representations and semantics improve when coupled to another mode? How can multimodal learning improve visual understanding in specific and diverse scenarios? How can multimodal learning improve the interpretability of visual models? The topics of interest of this Special Issue include but are not limited to:

- Machine learning methods for multimodal data;
- Multimodal data fusion and representation;
- Multimodal approaches for vision and/or text and/or audio;
- Multimodal approaches for autonomous driving;
- Multimodal approaches for machine learning in medicine;
- Multimodal computer vision for interactive systems.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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