Special Issue

Smart Technologies in Augmented and Virtual Reality: From Detection to Forecasting

Message from the Guest Editors

In recent years, there has been a growing interest in augmented reality (AR) and virtual reality (VR), which enable users to interact with computer-generated content in immersive ways. AR involves the overlay of digital content onto the real world, while VR involves the creation of a fully digital environment. Applications of AR/VR include gaming, education, training, and entertainment, among others. Deep learning techniques play a pivotal role in improving the performance of AR and VR systems, with applications ranging from understanding what content is present in virtual or augmented environments to forecasting how the user will behave in orderto provide a more rewarding experience. The focus is on both theoretical and practical aspects of the field. Topics of interest include but are not limited to:

- Object detection and recognition in AR/VR;
- Tracking and localization in AR/VR;
- Scene understanding and forecasting in AR/VR;
- Deep learning for improving the user experience in AR/VR;
- Head motion forecasting in AR/VR;
- Trajectory prediction in AR/VR;
- Bandwidth optimization in AR/VR

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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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