

Special Issue

Advanced Sensors in Extended Reality: Virtual, Augmented and Mixed Reality

Message from the Guest Editor

We welcome the submission of original research articles, discussions of technical developments, and interdisciplinary studies that explore the design, development, application, and evaluation of sensor-based systems for XR experiences. These submissions may discuss theoretical investigations, system architectures, user experience studies, creative applications, or experimental approaches. The topics of interest include, but are not limited to, the following: full-body motion capture; the use of biosensors to provide affective feedback; spatial tracking for audio-visual synchronization; wearable systems for gesture-based sound control; sensor fusion for immersive environments; and haptic interfaces for enhanced embodied interaction. The goal of this Special Issue is to foster a deeper understanding of how advanced sensing technologies can transform human engagement in XR, shaping innovative paradigms and increasing inclusion and accessibility. Submissions from both academic researchers and industry practitioners are welcome. Interdisciplinary contributions that integrate scientific, technical, and creative perspectives are particularly encouraged.

Guest Editor

Prof. Dr. M. Carmen Juan

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About the Journal

Message from the Editor-in-Chief

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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