

Special Issue

Innovative Approaches in 3D Sensing and Imaging Technologies for Cultural Heritage

Message from the Guest Editors

Cutting-edge technologies and multiple sensors are used in large-scale surveying projects to document cultural heritage sites and items in 3D. This improves preservation and knowledge of historical artifacts and buildings. Research and guidelines have improved over time, emphasizing the importance of point clouds as a standard for 3D data and combining data from multiple sensors. Different types of point cloud models achieve high resolution and accuracy for representation, enabling the creation of digital twins. Digitization results are reliable and widely shared, benefiting interdisciplinary contexts and conservation efforts. Cultural heritage also drives social and economic development. This Special Issue collects innovative contributions from the CIPA 2023 conference in Florence, focusing on technology's role in supporting cultural heritage conservation. Expected contributions include advancements in surveying methodologies, techniques for capturing heritage, digitization at various scales, multi-sensor data acquisition, integrating geophysical survey techniques, and advanced cloud management approaches using artificial intelligence.

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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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