



Advanced Research on Cultural Heritage

Guest Editor:

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Message from the Guest Editor

The importance of cultural heritage preservation, conservation, and dissemination has been recognized worldwide.

Cultural heritage includes a multitude of creative expressions. Among tangible assets, a variety of artifacts belongs to cultural heritage: from landscapes and archeological sites to historic buildings and monuments, books, paintings, and artworks. A multidisciplinary approach and a varied group of professionals are called to contribute to solving the challenges that face heritage today. The new cross-disciplinary vision encompasses chemistry, archeology, physics, engineering, and ICT. Technological advances in these fields have provided powerful tools and strategies for analytical and experimental research on historical and cultural artifacts that open new frontiers for their diagnosis, monitoring, and protection.

This Special Issue will provide an overview of existing knowledge on new approaches for heritage preservation and conservation. Relevant topics to this Special Issue include:

- knowledge, diagnosis, and conservation of heritage artifacts;
- conservation of built heritage;
- digital technologies for knowledge, conservation, and valorization





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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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