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Advanced Technologies in Architectural Heritage Protection

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The role of scientific research in the conservation and restoration of the built heritage is unquestionable. Identifying vulnerabilities of cultural assets highlighting risk factors and dynamics of material behavior lie at the foundation of strategy development for good conservation, as well as for the prediction of behaviors or for the simulation and analysis of interventions. The intelligent choice of analysis and diagnosis methods, the remote operation, the elimination of original material sampling, and the non-contact and non-invasive characterization of materials and multilayer structures, of fragile surfaces, and of accelerated degradations are also topics of interest. Moreover, the characterization of the impact of environmental and microclimate factors in relation to the architectural features and even urban planning are topical issues in applicative research. Mural paintings, decorative art in all its forms, polychromy, the particularities related to the organic or inorganic nature of materials, and the microclimate conditions are topics of interest

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Editor-in-Chief

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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, 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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