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Titolo	Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage : First International Conference, TMM_CH 2018, Athens, Greece, October 10–13, 2018, Revised Selected Papers, Part I // edited by Antonia Moropoulou, Manolis Korres, Andreas Georgopoulos, Constantine Spyrakos, Charalambos Mouzakis
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Collana	Communications in Computer and Information Science, , 1865-0929 ; ; 961
Disciplina	620.00420285
Soggetti	Application software Computer-aided engineering User interfaces (Computer systems) Geographical information systems Optical data processing Computer Appl. in Arts and Humanities Science, Humanities and Social Sciences, multidisciplinary Computer-Aided Engineering (CAD, CAE) and Design User Interfaces and Human Computer Interaction Geographical Information Systems/Cartography Image Processing and Computer Vision
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Nota di contenuto	Opening Lecture -- The Project of the Rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multi-spectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments -- The Project of the Rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinary and Cooperation in the Protection of Monuments -- The Holy Sepulchre as a religious building -- Preliminary Assessment of the Structural Response of the Holy Tomb of

Christ under Static and Seismic Loading -- Corrosion Protection study of metallic structural elements for the Holy Aedicule in Jerusalem -- Innovative Methodology for Personalized 3D Representation and Big Data Management in Cultural Heritage -- Governance and Management of the Holy Edicule Rehabilitation Project -- Digital Heritage -- Branding Strategies for Cultural Landscape promotion: Organizing real and virtual place networks -- 3D Survey of a neoclassical building using a handheld laser scanner a basis for the development of a bim - ready model -- Exploring the possibilities of Immersive Reality tools in virtual reconstruction of monuments -- Reconstruction and Visualization of Cultural Heritage Artwork Objects -- Vandalised frescoes' virtual retouching -- Idea - Ancient Greek Science and Technology -- Cross-sector Collaboration for Organizational Transformation: The Case of the National Library of Greece Transition Programme to the Stavros Niarchos Foundation Cultural Center 2015-2018 -- Volos in the Middle Ages: A Proposal for the Rescue of a Cultural Heritage -- Information Technology, Smart devices and Augmented Reality Applications for Cultural Heritage Enhancement: The Kalamata 1821 Project -- DiscoVRCoolTour: Discovering, capturing and experiencing cultural heritage and events using innovative 3D digitisation technologies and affordable consumer electronics -- The digitization of the tangible cultural heritage and the related policy framework -- Novel Educational Approach for the Preservation of Monuments -- Authentic learning to better prepare for preservation work -- 20 years N.T.U.A. Interdisciplinary Post Graduate Programme «Protection of Monuments» -- Education and training for the preservation of cultural heritage, as a strategic aim of the Department of Architecture, Frederick University Cyprus -- Cultural Heritage and Education/Training/Occupational Activity of Engineers in Greece -- The historic centre of Vimercate: investigation, education, community involvement -- Connections with the cultural heritage in formal and informal learning: The case of an interactive visual game of School Life Museum of Chania -- From Discovery to Exhibition - Recomposing History: Digitizing a Cultural Educational Program using 3D Modeling and Gamification -- Resilience to Climate Change and Natural Hazards -- Climate information for the Preservation of Cultural Heritage: needs and challenges -- Heritage Resilience Against Climate Events on Site - HERACLES Project: Mission and Vision -- Resilient Eco-smart Strategies & Innovative Technologies to Protect Cultural heritage -- Interventions on coastal monuments against climatic change -- Increasing the Resilience of Cultural Heritage to Climate Change through the Application of a Learning Strategy -- Conserving sustainably the Materiality of Structures and Architectural Authenticity -- Taxonomy of Architectural Styles and Movements worldwide since 8500 BC -- Monastery of Kimisis Theotokou, Valtessiniko, Arcadia, Greece - Restoration of the emble and integration of new structures -- Deterioration of Monument Building Materials: Mechanistic Models as Guides for Conservation Strategies -- Interdisciplinary Preservation and Management of Cultural Heritage -- Technological Innovations in Architecture during Antiquity. The case of Cyprus -- TLS survey and FE modelling of the Vasari's Cupola of the Basilica dell'Umiltà (Italy). An interdisciplinary approach for preservation of CH -- Interdisciplinary approaches in cultural heritage documentation: the case of Rodakis house in Aegina -- Assessment of Masonry Structures Based on Analytical Damage Indices -- Historical Mortars Study Assisted by GIS Technologies -- Towards a Blockchain Architecture for Cultural Heritage Tokens -- Protection and Highlighting of a waterfront zone disposing strong cultural characteristics.

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This two-volume set CCIS 961 and 962 constitutes the refereed post-conference proceedings of the First International Conference on Transdisciplinary Multispectral Modeling and Cooperation for the Preservation of Cultural Heritage, TMM\_CH 2018, held in Athens, Greece, in October 2018. 73 revised full papers of 237 submissions are included in these volumes. The papers of the first volume are organized in the following topical sections: the project of the rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through transdisciplinary and cooperation in the protection of monuments; digital heritage; novel educational approach for the preservation of monuments; resilience to climate change and natural hazards; conserving sustainably the materiality of structures and architectural authenticity; and interdisciplinary preservation and management of cultural heritage. And the papers of the second volume are organized in the following topical sections: sustainable preservation and management lessons learnt on emblematic monuments; cross-discipline earthquake protection and structural assessment of monuments; cultural heritage and pilgrimage tourism; reuse, circular economy and social participation as a leverage for the sustainable preservation and management of historic cities; inception – inclusive cultural heritage in Europe through 3D semantic modelling; heritage at risk; and advanced and non-destructive techniques for diagnosis, design and monitoring.

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