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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 II // edited by Antonia Moropoulou, Manolis Korres, Andreas Georgopoulos, Constantine Spyarakos, Charalambos Mouzakis
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Descrizione fisica	1 online resource (XXVII, 497 p. 310 illus., 241 illus. in color.)
Collana	Communications in Computer and Information Science, , 1865-0929 ; ; 962
Disciplina	363.69
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
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes Index.
Nota di contenuto	Sustainable Preservation and Management Lessons learnt on Emblematic Monuments -- Improving the Geometric Documentation of Cultural Heritage: Combined Methods for the Creation of an Integrated Management Information System in Greece -- The Temple of Apollo at Corinth. Observations on the Architectural Design -- Anastylosis of Roman Temples in the West End of the Roman Forum, as Part of a Management Plan of the Archaeological Site of Ancient Corinth -- The Restoration of the Katholikon of Daphni Monastery: a Challenging

Project of Holistic Transdisciplinary Approach, Novel Methodologies and Techniques and Digital Modelling -- Restoration and Consolidation of the Byzantine Church of Palaia Episkopi in Tegea, Arcadia -- Decryption, Through the Collaboration of Historical Accounts and Technology, of the Hidden Phases of Construction of the Church of the Holy Monastery of Kykko in Cyprus. A Preliminary Report -- The Oslo Opera House - Condition Analysis and Proposal for Cleaning, Protection and Maintenance of Exterior Marble -- Modern Architecture and Cultural Heritage -- Cross-discipline Earthquake Protection and Structural Assessment of Monuments -- Post-seismic restoration project of Basilica Churches in Kefallonia Island -- Investigation of the structural response of masonry structures -- The Timber-Roofed Basilicas of Troodos, Cyprus (15th-19th cen.). Constructional System, Anti-Seismic Behaviour and Adaptability -- Alternative Dome Reconstruction Method for Masonry Structures -- Cultural Heritage Structures Strengthened by Ties under Seismic Sequences and Uncertain Input Parameters: A Computational Approach -- Masonry Compressive Strength Prediction using Artificial Neural Networks -- Nominal Life of Interventions for Monuments and Historic Structures -- Cultural Heritage and Pilgrimage Tourism -- Restoration and Management of World Heritage Christian Cultural Sites: Problems of Religious Tourism – Challenges – Perspectives -- On the greatest challenge in the management of living religious heritage: linking the authenticity of heritage and the authenticity of tourist experiences to the authenticity of religious Tradition -- Reuse, Circular Economy and Social Participation as a leverage for the Sustainable Preservation and Management of Historic Cities -- Towards a New Heritage Financing Tool for Sustainable Development -- Public built cultural heritage management: the public-private partnership (P3) -- A programme for sustainable preservation of the Medieval City of Rhodes in the Circular Economy based on the renovation and reuse of listed buildings -- Inception – Inclusive Cultural Heritage in Europe through 3D Semantic Modelling -- Advanced 3D survey and modelling for enhancement and conservation of Cultural Heritage: the INCEPTION project -- INCEPTION: web cutting-edge technologies meet cultural heritage -- Cultural Heritage sites holistic documentation through Semantic Web technologies -- In situ advanced diagnostics and inspection by non-destructive techniques and UAV as input to numerical model and structural analysis- case study -- Current and potential applications of AR/VR technologies in Cultural Heritage. "INCEPTION Virtual Museum HAMH: A use case on BIM and AR/VR modelling for the Historical Archive Museum of Hydra, Greece" -- Heritage at Risk -- Reconstructing the Hellenistic Heritage: Chemical Processes, Devices and Products from Illustrated Greek Manuscripts - an Interdisciplinary Approach -- Glittering on the wall: Gildings on Greek Post-Byzantine Wall Paintings -- Advanced and non-Destructive Techniques for Diagnosis, Design and Monitoring -- Kinematic analysis of rock instability in the archaeological site of Delphi using innovative techniques -- Monitoring and mapping of deterioration products on cultural heritage monuments using imaging and laser spectroscopy -- Radar interferometer application for remote deflection measurements of a slender masonry chimney -- Multispectral and Hyperspectral Studies on Greek Monuments, Archaeological Objects and Paintings on Different Substrates. Achievements and Limitations -- Infrared Hyperspectral Spectroscopic Mapping Imaging from 800 to 5000 nm. A step forward in the Field of Infrared "Imaging" -- Fusion of the Infrared Imaging and the Ultrasound Techniques to Enhance the Sub-surface Characterization -- Moisture climate monitoring in confined spaces

using percolation sensors.

Sommario/riassunto

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.
