

## Wednesday, May 8 2019

<b>Session:</b>		
<b>HBIM and Informative models 1</b>		
<b>12:00 - 13:00</b>	<b>Paper</b>	<b>Authors</b>
	INNOVATIVE TOOLS FOR MANAGING HISTORICAL BUILDINGS: THE USE OF GEOGRAPHIC INFORMATION SYSTEM AND ONTOLOGIES FOR HISTORICAL CENTERS	Acierno, Marta; Fiorani, Donatella
	GEOMETRIC SURVEY DATA AND HISTORICAL SOURCES INTERPRETATION FOR HBIM PROCESS: THE CASE OF MANTUA CATHEDRAL FAÇADE	Adami, Andrea; Fregonese, Luigi; Rosignoli, Olga; Scala, Barbara; Taffurelli, Laura; Treccani, Daniele
	EVALUATION OF AN INTEGRATIVE APPROACH BETWEEN HBIM AND ARCHITECTURE HISTORY	Beltramo, Silvia, Diara, Filippo, Rinaudo, Fulvio
	ADVANCED 3D TECHNOLOGY IN SUPPORT OF THE BIM PROCESSES IN THE CULTURAL HERITAGE: IN-DEPTH ANALYSIS OF THE CASE STUDY OF THE ROMAN FLUVIAL PORT OF AQUILEIA (ITALY)	Pratali Maffei, Sergio, Canevese, Erminio Paolo, De Gottardo, Tiziano, Pizzol, Laura
<b>Session:</b>		
<b>Multi-source data analysis</b>		
<b>12:00 - 13:00</b>	<b>Paper</b>	<b>Authors</b>
	HISTORY, GEOMETRY, STRUCTURE: INTERDISCIPLINARY ANALYSIS OF A HISTORICAL BRIDGE	Bruno, Nazarena, Coisson, Eva, Diotri, Fabrizio, Ferrari, Lia, Mikolajewska, Sandra, Morra di Cella, Umberto, Roncella, Riccardo, Zerbi, Andrea
	THE GAMHER RESEARCH PROJECT FOR METRIC DOCUMENTATION OF CULTURAL HERITAGE: CURRENT DEVELOPMENTS	Bitelli, Gabriele, Balletti, Caterina, Brumana, Raffaella, Barazzetti, Luigi, D'Urso, Maria Grazia; Rinaudo, Fulvio, Tucci, Grazia
	LASER AND MULTI-IMAGE REVERSE ENGINEERING SYSTEMS FOR ACCURATE 3D MODELLING OF COMPLEX CULTURAL ARTEFACTS	Ioannidis, Charalambos; Piniotis, George; Soile, Sofia; Bourexis, Fotis; Chliverou, Reggina; Tsakiri, Maria
	POINT CLOUD SEGMENTATION USING IMAGE PROCESSING TECHNIQUES FOR STRUCTURAL ANALYSIS	Barrile, Vincenzo; Candela, Gabriele; Fotia, Antonino
<b>Session:</b>		
<b>HBIM and Informative models 2</b>		
<b>14:00 - 15:30</b>	<b>Paper</b>	<b>Authors</b>
	THE FACADE'S DOME OF THE ST. ANTHONY'S BASILICA IN PADUA	Diaz, Martina; Holzer, Stefan M.

	HOLISTIC HERITAGE BUILDING INFORMATION MODELLING (HHBIM): FROM NODES TO HUB NETWORKING, VOCABULARIES AND REPOSITORIES	Brumana, Raffaella, Ioannides, Marinos, Previtali, Mattia
	FROM THE ELABORATION PROCESS OF POINT CLOUD TO INFORMATION SYSTEMS BOTH FOR PLANNING AND DESIGN MANAGEMENT OF CULTURAL HERITAGE	Ruffino, Pablo Angel; Bocconcino, Maurizio Marco; Del Giudice, Matteo; Osello, Anna
	ADVANCED 3D MODELING VERSUS BUILDING INFORMATION MODELING: THE CASE STUDY OF PALAZZO ETTOREO IN SACILE (ITALY)	Visintini, Domenico, Marcon, Enrico, Pantò, Giacomo, Canevese, Erminio Paolo, De Gottardo, Tiziano, Bertani, Ilder
	SPECIFICITY OF HISTORICAL BUILDINGS AND BIM METHODOLOGIES. A FIRST EXPERIMENTATION FOR THE FEDERICO II HEADQUARTERS IN NAPLES.	Picone, Renata; Veronese, Luigi
	AN INFORMATIVE CONTENT 3D MODEL FOR THE HALL HOLDING THE RESURRECTION OF CHRIST BY PIERO DELLA FRANCESCA MURAL PAINTING AT SANSEPOLCRO, ITALY	Coli, Massimo; Ciuffreda, Anna Livia; Micheloni, Michelangelo
<b>14:00 - 15:30</b>	<b>Session:</b> <b>Structure and Infrastructure Monitoring Challenging Hazard</b>	
	<b>Paper</b>	<b>Authors</b>
	LIFECYCLE MANAGEMENT, MONITORING AND ASSESSMENT FOR SAFE LARGE-SCALE INFRASTRUCTURES: CHALLENGES AND NEEDS	Limongelli, Maria Pina; Previtali, Mattia; Cantini, Lorenzo; Carosio, Stefano; Matos, José C.; Isoird Aurrekoetxea, Jesús María; Wenzel, Helmut; Pellegrino, Carlo
	GEOMATICS IN BRIDGE STRUCTURAL HEALTH MONITORING, INTEGRATING TERRESTRIAL LASER SCANNING TECHNIQUES AND GEOTECHNICAL INSPECTIONS ON A HIGH VALUE CULTURAL HERITAGE	Mugnai, Francesco; Lombardi, Luca; Tucci, Grazia; Nocentini, Massimiliano; Gigli, Giovanni; Fanti, Riccardo
	REMOTE SENSING TECHNOLOGIES FOR LINEAR INFRASTRUCTURE MONITORING	D'Aranno, Peppe; Di Benedetto, Alessandro; Fiani, Margherita; Marsella, Maria
	CULTURAL HERITAGE MONITORING BY LOW-COST GNSS RECEIVERS: A FEASIBILITY STUDY FOR SAN GAUDENZIO'S CUPOLA, NOVARA	Barzagli, Riccardo; Reguzzoni, Mirko; De Gaetani, Carlo Iapige; Caldera, Stefano; Rossi, Lorenzo
	POINT CLOUD DATASET AND FEM FOR A COMPLEX GEOMETRY: THE SAN LUZI BELL TOWER CASE STUDY	Selvaggi, Ilenia; Bitelli, Gabriele; Serantoni, Eugenio; Wieser, Andreas
	INFORMATIVE CONTENT MODELS FOR INFRASTRUCTURE LOAD TESTING MANAGEMENT: THE AZZONE VISCONTI BRIDGE IN LECCO	Previtali, Mattia; Barazzetti, Luigi; Banfi, Fabrizio; Roncoroni, Fabio

16:00 - 17:30	<b>Session:</b> <b>HBIM, vocabularies and semantics</b>	
	<b>Paper</b>	<b>Authors</b>
	TOWARDS BUILDING A SEMANTIC FORMALIZATION OF (SMALL) HISTORICAL CENTRES	Kokla, Margarita; Mostafavi, Mir-Abolfazl; Noardo, Francesca; Spanò, Antonia
	TOWARDS A SEMANTIC BASED HUB PLATFORM OF VAULTED SYSTEMS: HBIM MEETS A GEODB	Brumana, Raffaella; Condoleo, Paola; Grimoldi, Alberto; Previtali, Mattia
	HBIM IN A SEMANTIC 3D GIS DATABASE	Matrone, Francesca; Colucci, Elisabetta; De Ruvo, Valeria; Lingua, Andrea; Spanò, Antonia
	DETECTION OF BUILDING ROOFS AND FACADES FROM AERIAL LASER SCANNING DATA USING DEEP LEARNING	Pirotti, Francesco; Zanchetta, Carlo; Previtali, Mattia; Della Torre, Stefano
	MODELLING IN HBIM TO DOCUMENT MATERIALS DECAY BY A THEMATIC MAPPING TO MANAGE THE CULTURAL HERITAGE: THE CASE OF "CHIESA DELLA PIETÀ" IN FERMO	Malinverni, Eva Savina; Mariano, Fabio; Di Stefano, Francesco; Petetta, Leonardo; Onori, Federica
16:00 - 17:30	<b>Session:</b> <b>Digitization of Architectural Cultural Heritage</b>	
	<b>Paper</b>	<b>Authors</b>
	THE CATHEDRAL OF S. LORENZO IN PERUGIA AND THE HYPOGEAL SPACES. GEOMATIC TECHNIQUES FOR SPATIAL INVESTIGATIONS AIMED AT THE KNOWLEDGE AND INTERPRETATION OF THE ORIGIN OF THE TRANSEPT	Matracchi, Pietro; Radicioni, Fabio; Stoppini, Aurelio; Tosi, Grazia
	THE DIGITAL DOCUMENTATION OF HISTORICAL CITIES BETWEEN TRANSFORMATIONS AND CONSERVATION: THE CASE STUDY OF VALBONA GATE IN URBINO ITALY	Baratin, Laura; Cattaneo, Alessandra; Gasparetto, Francesca; Moretti, Elvio; Lonati, Stefano
	THREE-DIMENSIONAL SURVEY OF GUATTARI CAVE WITH TRADITIONAL AND MOBILE PHONE CAMERAS	Alessandri, Luca; Baiocchi, Valerio; Del Pizzo, Silvio; Di Ciaccio, Fabiana; Onori, M.; Rolfo, Mario F.; Troisi, Salvatore
	PHOTOGRAMMETRIC WIREFRAME AND DENSE POINT CLOUD 3D MODELLING OF HISTORICAL STRUCTURES: THE STUDY OF SULTAN SELIM MOSQUE AND YUSUF AGA LIBRARY IN KONYA, TURKEY	Altuntas, Cihan; Mert, S.; Yaman, G.; Cengiz, Y.; Sonmez, M.
	DATA OPTIMIZATION FOR 3D MODELING AND ANALYSIS OF A FORTRESS ARCHITECTURE	Marino, Bianca Gioia; Masiero, Andrea; Chiabrando, Filiberto; Lingua, Andrea; Fissore, Francesca; Blaszczyk-Bak, Wioleta; Vettore, Antonio

	SCAN PLANNING OPTIMIZATION FOR OUTDOOR ARCHAEOLOGICAL SITES	Díaz-Vilariño, Lucía; Frías, Ernesto; Previtali, Mattia; Scaioni, Marco; Balado, Jesus
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## Thursday, May 9 2019

<b>Session:</b>		
<b>SSHRC INTERNSHIP and Value CHAIN</b>		
9:00 - 10:30	Paper	Authors
	DIGITAL DOCUMENTATION AND MONITORING HUB IN CLIMATE-SENSITIVE TERRITORIES: THE ALBENGA CASE STUDY (SAN CLEMENTE SITE)	Molnar, Thomas; Brumana, Raffaella; Conventi, Marta; Previtali, Mattia
	NEW TOOLS FOR CULTURAL HERITAGE TOURISM: ACCESSIBLE VIRTUAL REALITY FOR MILAN'S BASILICA SANT'AMBROGIO	Pybus, Cailen
	THE EVOLUTION OF MODELLING PRACTICES ON CANADA'S PARLIAMENT HILL: AN ANALYSIS OF THREE SIGNIFICANT HERITAGE BUILDING INFORMATION MODELS (HBIM)	Chow, Lara; Graham, Katie; Grunt, Tyler; Grunt, Tyler; Gallant, Martine; Rafeiro, J.; Fai, Stephen
	A WORKFLOW FOR GEOMETRIC COLOUR PHOTOGRAPHY OF PAINTED SURFACES	Dhanda, Abhijit; Scarpa, Gabriel; Fai, Stephen; Santana Quintero, Mario
	MERGING PHOTOGRAMMETRY AND AUGMENTED REALITY: THE CANADIAN LIBRARY OF PARLIAMENT	Carrión-Ruiz, Berta; Blanco-Pons, Silvia; Weigert, Adam; Fai, Stephen; Lerma, José Luis
	GENERATIVE MODELING, VIRTUAL REALITY AND HBIM INTERACTION: IMMERSIVE ENVIRONMENT FOR BUILT HERITAGE: CASE STUDY OF SHAIKH ISA BIN ALI HOUSE, BAHRAIN	Banfi, Fabrizio; Brumana, Raffaella; Aljishi, A; Sayeh, N.AL.; Santana, Mario; Cuca, Branka; Oreni, Daniela; Midali, Chiara
<b>Session:</b>		
<b>Teaching, accessibility and learning</b>		
9:00 - 10:30	Paper	Authors
	IMPACT OF VIRTUAL REALITY EXPERIENCE ON ACCESSIBILITY OF CULTURAL HERITAGE	Paladini, Alice; Dhanda, Abhijit; Reina Ortiz, Miquel; Weigert, Adam; Nofal, Eslam; Min, Aungzaw; Gyi, M.; Su, S.; Van Balen, Koenraad; Santana Quintero, Mario
	ON THE RELATIONSHIP BETWEEN GEOMATICS AND CONSERVATION: LESSONS LEARNED FROM INTEGRATED RESTORATION LABORATORIES	Pracchi, Valeria; Barazzetti, Luigi
	REVEALING THE EVERYDAY LANDSCAPE: INNOVATIVE SYSTEMS FOR HERITAGE EDUCATION IN SCHOOLS. THE SCAR (SCHOOL ACTIVATES RESOURCES) PROJECT	Bonfantini, Bernardo; Casonato, Camilla; Villa, Daniele; Di Blas, Nicoletta; Pracchi, Valeria; Vedoà, M.
	GEOMETRIC PRIMITIVES ASSESSING ITALIAN-CZECH VAULT CONSTRUCTION TECHNIQUES IN BAROQUE PERIOD	Stanga, Chiara; Hasnikova, Hana; Brumana, Raffaella; Grimoldi, Alberto; Banfi, Fabrizio

	EDUCATIONAL AND TRAINING EXPERIENCES IN GEOMATICS: TAILORED APPROACHES FOR DIFFERENT AUDIENCE	Tucci, Grazia; Parisi, Erica Isabella; Conti, Alessandro; Corongiu, Manuela; Fiorini, Lidia; Panighini, Francesca
	THE HBIM ANALYSIS OF THE GEOMETRY TO UNDERSTAND THE CONSTRUCTIVE TECHNIQUE: THE USE OF THE TROMPE VOLUME IN A BRICK VAULT	Attico, Dario; Turrina, Anna; Banfi, Fabrizio; Grimoldi, Alberto; Landi, Angelo Giuseppe; Condoleo, Paola; Brumana, Raffaella
<b>11:00 - 12:30</b>	<b>Session: Geomatic technologies and preservation</b>	
	<b>Paper</b>	<b>Authors</b>
	MONITORING AND PRESERVATION OF THE KYIV PECHERSK LAVRA CAVES	Shults, Roman; Bilous, Mykola; Kovtun, Valentyn
	THE USE OF NEW TECHNOLOGIES IN THE RESTORATION AND CONSERVATION OF BUILT CULTURAL HERITAGE/ THE CASE OF THE STATUE OF FOUARA, SETIF. ALGERIA	Ali Khodja, Nadir; Zeghlache, Hamza; Benali, Farouk; Guani, Omar
	GEOMATICS TECHNIQUES FOR THE ENHANCEMENT AND PRESERVATION OF CULTURAL HERITAGE	Balletti, Caterina; Bertellini, Benedetta; Gottardi, Caterina; Guerra, Francesco
	COMPARISON OF UAVS PERFORMANCE FOR A ROMAN AMPHITHEATRE SURVEY: THE CASE OF AVELLA (ITALY)	Barba, Salvatore; Barbarella, Maurizio; Di Benedetto, Alessandro; Fiani, Margherita; Limongiello, Marco
	GEOMATICS AND ARCHAEOLOGICAL INVESTIGATIONS FOR THE SUSTAINABLE REUSE OF RUINS. THE SANTA CHIARA CONVENT RUIN IN CAGLIARI (SARDINIA)	Fiorino, Donatella Rita; Grillo, Silvana Maria; Pilia, Elisa; Vacca, Giuseppina
	PHOTOGRAMMETRY: METHODS OF SURVEY AND APPLICATIONS ON RESTORATION WORKS PHOTOGRAMMETRY: METHODS OF SURVEY AND APPLICATIONS ON RESTORATION WORKS	Genin, Soraya Monteiro
<b>11:00 - 12:30</b>	<b>Session: Virtual reconstruction technologies</b>	
	<b>Paper</b>	<b>Authors</b>
	INTEGRATED SURVEY TECHNIQUES: PRELIMINARY STUDIES FOR THE CONSERVATION OF VILLA GALVAGNINA	Nannei, Virna Maria; Farina, Paolo Maria; Mirabella Roberti, Giulio; Sansonetti, Antonio
	THE CASTLE OF ASSORO: THE INTEGRATED SURVEY FOR THE KNOWLEDGE AND CONSERVATION OF RUINS	Versaci, Antonella; Cardaci, Alessio; Fauzia, Luca; Russo, Michele
	LESSON LEARNED ON MONITORING CULTURAL HERITAGE AT RISK UNDER CLIMATE CHANGES: STRATEGY, TECHNIQUES AND RESULTS	Rosina, Elisabetta; Romoli, Elena; Pili, Alessandra; Suma, Marivita

	EVALUATING SMARTPHONES COLOR FIDELITY AND METRIC ACCURACY FOR THE 3D DOCUMENTATION OF SMALL ARTIFACTS	Gaiani, Marco; Apollonio, Fabrizio Ivan; Fantini, Filippo
	THE "CARA VALLE" ABBEY AND ITS REFECTORY	Guarisco, Gabriella; Oreni, Daniela
	RESEARCH ON NON-DESTRUCTIVE TESTING TECHNOLOGY IN RENOVATING PROJECTS OF MUKDEN PALACE	Li, Chengyuan; Yang, Jing; Zhang, Xukang; Fu, Miqiao
<b>13:30 - 14:30</b>	<b>Session: Poster</b>	
	PROSPECTIVE UPON MULTI-SOURCE URBAN SCALE DATA FOR 3D DOCUMENTATION AND MONITORING OF URBAN LEGACIES	Abbate, Emilio; Sammartano, Giulia; Spano, Antonia
	UAV PHOTOGRAMMETRY FOR RESILIENCE MANAGEMENT IN RECONSTRUCTION PLAN OF URBAN HISTORICAL CENTRES AFTER SEISMIC EVENTS. A CASE STUDY	Alicandro, Maria; Rotilio, Marianna
	GEOMATIC TECHNIQUES FOR THE COLONNADE STRUCTURAL ANALYSIS OF THE HISTORICAL " CHIARAMONTE STERI" BUILDING	Orlando, Pietro
	EVALUATION OF THE PRESERVATION STATE OF HISTORICAL PENINSULA IN ISTANBUL BASED ON GEOSPATIAL DATA	Can, Yeliz; Tura, Salih; Kudde, Esra
	COMBINATION OF TERRESTRIAL LASERSCANNING, UAV AND CLOSE-RANGE PHOTOGRAMMETRY FOR 3D RECONSTRUCTION OF COMPLEX CHURCHES IN GEORGIA	Luhmann, Thomas; Chizhova, Maria; Gorkovchuk, Denys; Hastedt, Heidi; Chachava, Nino; Lekveishvili, Nana
	HBIM FOR THE SURVEYING, ANALYSIS AND RESTORATION OF THE SAINT JOHN THE THEOLOGIAN CATHEDRAL IN NICOSIA (CYPRUS)	Santagati, Cettina; Laurini, Carla R.; Sanfilippo, Giulia; Bakirtzis, Nikolas; Papacharalambous, D.; Hermon, Sorin
	A GEODATABASE FOR MULTISOURCE DATA MANAGEMENT APPLIED TO CULTURAL HERITAGE: THE CASE STUDY OF VILLA BUONACCORSI'S HISTORICAL GARDEN	Malinverni, Eva Savina; Chiappini, Stefano; Pierdicca, Roberto
	TERRESTRIAL LASER SCANNING AND DIGITAL PHOTOGRAMMETRY FOR HERITAGE CONSERVATION: CASE STUDY OF THE HISTORICAL WALLS OF LAGOS, PORTUGAL.	Mateus, Luís Miguel Cotrim; Fernández, Jorge García; Ferreira, Victor Manuel Mota; Oliveira, Camila Franco; Aguiar, José Manuel; Gago, António Sousa; Pacheco, António Pedro; Pernão, João Nuno
	PRESERVING THE VENETIAN FORTRESS OF BERGAMO: QUICK PHOTOGRAMMETRIC SURVEY FOR CONSERVATION PLANNING	Mirabella Roberti, Giulio; Nannei, Virna M.; Azzola, Pietro; Cardaci, Alessio

EXAMINING THE ORIGIN OF FLOWERPOT MOTIFS IN THE BUILDINGS OF QAJAR ERA	Benisi, Tahereh; Zarezadeh, Fahimeh
RAPID 3D DIGITALIZATION OF THE CULTURAL HERITAGE: A CASE STUDY ON ISTANBUL SULEYMANIYE SOCIAL COMPLEX (KULLİYE)	Kan, Tuna; Büyüksalih, Gürcan; Enç Özkan, Gözde; Başkaraca, Peyami
DIGITAL STORAGE AND THE DATA COLLECTION FOR THE SEISMIC PREVENTION: A COMPARISON FROM THE ITALIAN RECENT EXPERIENCES	Brusa, Enrica
THE SITE OF SAN CALOCERO DI ALBENGA (SV). AN INTER-DISCIPLINARY METHODOLOGICAL TRAINING GROUND	Roascio, Stefano
GROUND BASED 3D MODELING (PHOTOGRAMMETRY AND TLS) - SURVEY, DOCUMENTATION AND STRUCTURAL ASSESSMENT OF XX CENTURY CULTURAL HERITAGE IN INDIA – A CASE STUDY OF THE MASONRY VAULTS IN DEHRADUN	Tucci, Grazia; Rihal, Satwant; Betti, Michele; Conti, Alessandro; Fiorini, Lidia; Cerisano Kovacevic, Vladimir; Bartoli, Gianni
BUILDING ASSESSMENT USING SHADOW ANALYSIS FOR THE ARCHITECTURAL DOCUMENTATION	Kadhim, Nada; Kadhim, Nabil
MAGO: A NEW APPROACH FOR ORTHOPHOTOS PRODUCTION BASED ON ADAPTIVE MESH RECONSTRUCTION	Gagliolo, Sara; Federici, Bianca; Ferrando, Ilaria; Sguerso, Domenico
THE GIARDINO DELLE CAMELIE IN THE BOBOLI MONUMENTAL GARDEN: INTEGRATED SURVEY, STRUCTURAL REINFORCEMENT AND RESTORATION PROJECT OF THE ARCHITECTURE, THE DECORATIONS AND THE HYDRAULIC SYSTEM	Tucci, Grazia; Ruggieri, Paola; Mazzoleni, Massimo; Conti, Alessandro; Fiorini, Lidia; Panighini, Francesca
VIRTUAL PAST. INTERACTIVE PRESENTATION OF LATE ROMAN TOWERS (ARCHAEOLOGICAL MUSEUM, MILAN ITALY).	Morandi, Simona; Tremari, Marco
MANAGING CULTURAL HERITAGE WITH INTEGRATED SERVICES PLATFORM	Apollonio, Fabrizio Ivan; Gaiani, Marco; Bertacchi, Silvia
“HERITAGE & DEVELOPMENT” STRATEGY ON HISTORIC URBAN LANDSCAPE (HUL): THE ADDED VALUE OF MULTI-TEMPORAL HUB APPLICATION.	Yang, Minja; Brumana, Raffaella; Previtali, Mattia
INTEGRATED APPROACH COMBINING DIRECT SURVEY AND OBSERVATION IN DAMAGE ANALYSIS IN CASE OF SOIL SETTLEMENT	Giangregorio, Maria Chiara; Cortinovia, Nicole; Cardani, Giuliana; Coronelli, Dario Angelo Maria
INTEGRATION OF 3D MODEL FROM UAV SURVEY IN BIM ENVIRONMENT	Barrile, Vincenzo; Fotia, Antonino; Candela, Gabriele; Bernardo, E.



	REPRESENTATION AND DIGITALIZATION OF STONE THEATRES IN EASTERN SICILY: THE PALAZZOLO ACREIDE THEATER	Di Gregorio, Giuseppe
	A GIS TOOL FOR THE MANAGEMENT OF SEISMIC EMERGENCIES IN HISTORICAL CENTERS: HOW TO CHOOSE THE OPTIMAL ROUTES FOR CIVIL PROTECTION INTERVENTIONS	Artese, Serena; Achilli, Vladimiro
	AN OPTIMISED WORKFLOW FOR THE INTERACTIVE EXPERIENCE WITH CULTURAL HERITAGE THROUGH REALITY-BASED 3D MODELS: CASES STUDY IN ARCHAEOLOGICAL AND URBAN COMPLEXES	Cipriani, Luca; Bertacchi, Silvia; Bertacchi, Gianna
	EXPERIENCING HERITAGE DYNAMIC THROUGH VISUALIZATION	Lecci, Novella; Prodi, Filippo; Trovatelli, Francesco; Vezi, Alessandra
	ANALYSIS OF JIAYUGUAN [嘉峪关] PAVILIONS' DEFORMATION AND ITS INFLUENCE FACTORS WITH THE APPLICATION OF COMPREHENSIVE TECHNOLOGY	Zhang, Long; Dong, Weikun; Zhou, Ting; Ba, Zhenning
	GIS ANALYSIS OF THE SEISMIC DAMAGE ON HISTORICAL MASONRY SPIRES	Zanazzi, Elena; Coisson, Eva; Ferretti, Daniele
	DISTANCE-TRAINING FOR IMAGE-BASED 3DMODELLING OF ARCHEOLOGICAL SITES IN REMOTE REGIONS	Yordanov, Vasil; Mostafavi, Armin; Scaioni, Marco
	BENCHMARK OF METRIC QUALITY ASSESSMENT IN PHOTOGRAMMETRIC RECONSTRUCTION FOR HISTORICAL FILM FOOTAGE	Condorelli, Francesca; Rinaudo, Fulvio
	RESEARCH ON HBIM AND LEVEL OF INFORMATION FOR THE LIFE CYCLE OF TRADITIONAL CHINESE BUILT HERITAGE IN TAIWAN	Yen, Ya-Ning; Lu, Yi-Chou
	FORGOTTEN ARCHITECTURE: SMART TOOLS FOR CULTURAL TOURISM IN THE CLOISTER OF THE PRIOR (SANTA MARIA DELLE GRAZIE, MILAN)	Bolognesi, Cecilia; Aiello, Damiano
	TLS FOR DETECTING SMALL DAMAGES ON A BUILDING FACADE	Masiero, Andrea; Costantino, Domenica
	A GEO-REFERENCED DATABASE TO MANAGE THE LANDSCAPE AREAS UNDER PRESERVATION IN LOMBARDY REGION	Cazzani, Alberta; Aresi, Monica; Coloru, Stefano; Giannoccaro, Daniela
	BUILT ENVIRONMENT: MODELLING THE URBAN SPACE	Guzzetti, Franco; Anyabolu, Karen Lara Ngozi; D'Ambrosio, Lara; Marchetti, Giulia

	ADVANCED GEOMATICS AND CONSERVATION MANAGEMENT PLAN FOR PRESERVING 20th CENTURY ARCHITECTURAL HERITAGE	Allegretti, Federica; Del Curto, Davide; Mazza, Serena
	DIGITAL MODELLING AND ANALYSIS OF MASONRY VAULTS	Angjeliu, Grigor; Cardani, Giuliana; Coronelli, Dario
<b>Session:</b>		
<b>17:00 - 18:00</b>	<b>Content based eXtended REALITY (AR/MR/VR)</b>	
	<b>Paper</b>	<b>Authors</b>
	ARISTOTLE'S MIRROR: COMBINING DIGITAL AND MATERIAL CULTURE	Rossi, Corinna
	REALISTIC NATURAL INTERACTION WITH VIRTUAL STATUES IN X-REALITY ENVIRONMENTS	Margetis, George; Papagiannakis, George; Stephanidis, Constantine
	3D DOCUMENTATION AND VIRTUAL ARCHAEOLOGICAL RESTORATION OF MACEDONIAN TOMBS	Stambouloglou, Maria; Toska, Olympia; Tapinaki, Sevasti; Kontogianni, Georgia; Skamantzari, Margarita; Georgopoulos, Andreas
	COMPARING INNOVATIVE XR SYSTEMS IN CULTURAL HERITAGE. A CASE STUDY	Carrozzino, Marcello; Voinea, Gheorghe-Daniel; Duguleană, Mihai; Boboc, Razvan Gabriel; Bergamasco, Massimo
	A CONTENT-BASED IMMERSIVE EXPERIENCE OF BASILICA OF SANT'AMBROGIO IN MILAN: FROM 3D SURVEY TO VIRTUAL REALITY	Banfi, Fabrizio; Brumana, Raffaella; Stanga, Chiara
	BIM FOR MUSEUMS: AN INTEGRATED APPROACH FROM THE BUILDING TO THE COLLECTIONS	Tucci, Grazia; Betti, Michele; Conti, Alessandro; Corongiu, Manuela; Fiorini, Lidia; Matta, Carlotta; Cerisano Kovacevic, Vladimir; Borri, Claudio; Hollberg, Cecilie
<b>Session:</b>		
<b>17:00 - 18:00</b>	<b>Archaeology and digital technologies</b>	
	<b>Paper</b>	<b>Authors</b>
	CHALLENGING THE INVISIBILITY OF MOBILE CULTURES REMOTE SENSING, ENVIRONMENT AND ARCHAEOLOGY IN THE NEAR EAST	Silver, Minna; Törmä, Markus; Silver, Kenneth; Nuñez, Milton; Okkonen, Jari
	FROM THE EXTRAORDINARY NATURE OF THE GREAT POMPEII PROJECT TO PLANNED CONSERVATION	Mauro, Annamaria
	INTERPRETATION OF THE FUNCTION OF THE OBELISK OF AUGUSTUS IN ROME FROM ANTIQUE TEXTS TO PRESENT TIME VIRTUAL RECONSTRUCTION	Hiermanseder, Michael

	<p>LIDAR DATA ANALYSES FOR ASSESSING THE CONSERVATION STATUS OF THE SO-CALLED BATHS-CHURCH IN HIERAPOLIS OF PHRYGIA (TR)</p>	<p>Marson, Claudia; Sammartano, Giulia; Spanò, Antonia; Valluzzi, Maria Rosa</p>
	<p>ALBA FUCENS ARCHAEOLOGICAL SITE: MULTISCALE AND MULTIDISCIPLINARY APPROACH FOR RISK ASSESSMENT AND CONSERVATION</p>	<p>Alicandro, Maria; Candigliota, Elena; Dominici, Donatella; Immordino, Francesco; Quaresima, Raimondo; Zollini, Sara</p>
	<p>SURVEY AND VIRTUAL RECONSTRUCTION OF ANCIENT ROMAN FLOORS IN AN ARCHEOLOGICAL CONTEXT</p>	<p>Fazio, Leonarda; Lo Brutto, Mauro; Dardanelli, Gino</p>

## Friday, May 10 2019

10:30 - 12:00	Session: Heritage Urban Landscape	
	Paper	Authors
	URBAN HERITAGE MONITORING, USING IMAGE PROCESSING TECHNIQUES AND DATA COLLECTION WITH TERRESTRIAL LASER SCANNER (TLS), CASE STUDY CUENCA - ECUADOR	Heras Barros, Veronica Cristina; Sinchi, E; Briones, J; Lupercio, L
	THE MENSIOCHRONOLOGY ANALYSIS SUPPORTED BY NEW ADVANCED SURVEY TECHNIQUES: FIELD TESTS IN MILANESE AREA	Cantini, Lorenzo; Previtali, Mattia; Moiola, Rossella; Della Torre, Stefano
	INCLUSIVE CULTURAL HERITAGE SITES: ICT AS A TOOL TO SUPPORT THE DESIGN PROCESS AND SHARE KNOWLEDGE	Marconcini, Sebastiano; Pracchi, Valeria
	AN INITIAL DESIGN FRAMEWORK FOR VIRTUAL HISTORIC DUBLIN	Murphy, Maurice; Pavia, Sara; Cahill, John; Lenihan, Shane; Corns, Anthony
	DISCUSSION ON RESTORATION DESIGN OF LANDSCAPE SITE BASED ON 3D-TERRESTRIAL LASER SCANNING : A CASE STUDY OF QIWANG HALL IN SUMMER PALACE, BEIJING, CHINA	Zhang, Long; Wang, Aoyi
	THE GEO-REFERENCED XIX CENTURY CARTOGRAPHY: AN ANALYSIS TOOL AND A PROJECT REFERENCE FOR THE PRESERVATION AND MANAGEMENT OF BUILT AND LANDSCAPE HERITAGE.	Cazzani, Alberta; Brumana, Raffaella; Zerbi, Carlotta Maria
10:30 - 12:00	Session: Heritage documentation in the PRE-DIGITAL ERA	
	Paper	Authors
	3D OBJECT RECONSTRUCTION IN A PRE-DIGITAL ERA: CASE STUDY IN THE HISTORY OF RESTORATION	Lobovikov-Katz, Anna
	3D DIGITAL AND PHYSICAL RECONSTRUCTION OF A COLLAPSED DOME USING SFM TECHNIQUES FROM HISTORICAL IMAGES	Beltrami, Cristiana; Cavezzali, Donatella; Chiabrando, Filiberto; Iaccarino Idelson, Antonio; Patrucco, Giacomo; Rinaudo, Fulvio
	BEST BEFORE? ADVANCED GEOMATICS FOR PRESERVATION AND PRESERVATION OF ADVANCED GEOMATICS.	Celli, Sofia; Del Curto, Davide

	RECONSTRUCTION OF HISTORICAL GEODETIC SYSTEMS FOR THEIR IMPLEMENTATION IN REPROJECTION ALGORITHMS	Baiocchi, Valerio; Deligios, M. , Giannone, Francesca , Timar, G.
	TUTANKHAMEN'S TWO TOMBS: REPLICA CREATION AND THE PRESERVATION OF OUR CULTURAL HERITAGE IN THE DIGITAL AGE	Wong, Lorinda; Santana Quintero, Mario; Agnew, Neville
	GEO-INFORMATION TECHNOLOGIES FOR A MULTIMODAL ACCESS ON HISTORICAL PHOTOGRAPHS AND MAPS FOR RESEARCH AND COMMUNICATION IN URBAN HISTORY	Maiwald, Ferdinand; Henze, Frank; Brusckke, Jonas; Niebling, Florian
<b>12:00 - 13:00</b>	<b>Session: 20th century heritage</b>	
	<b>Paper</b>	<b>Authors</b>
	DISCOVERING AND COMMUNICATING THE RATIONALIST ARCHITECTURE OF FORLÌ. AN INTEGRATED PROCESS	Favaretto, Giulia; Pretelli, Marco; Zampini, Alessia;
	LE CORBUSIER'S APARTMENT-STUDIO : 3D MODEL DATA OF PRELIMINARY RESEARCH FOR THE RESTORATION	Bruez, Mathieu; Gandini, Benedicte; Groux, Didier
	DISCOVERING AND PRESERVING THE MILITARY LANDSCAPE. ICT FOR THE GERMAN BUNKERS OF THE GALLA PLACIDIA LINE.	Mariotti, Chiara; Ugolini, Andrea; Zampini, Alessia
	RESIDENTIAL BUILDINGS BY GIUSEPPE TERRAGNI IN COMO: PROPOSALS FOR INTEGRATION BETWEEN RESEARCH, COMMUNICATION AND VALORISATION OF HERITAGE	Greppi, Anna; Casanova, Marta
	BUILDING SURVEY AND ENERGY MODELING: AN INNOVATIVE RESTORATION PROJECT FOR CASA DEL FASCIO IN COMO	Buda, Alessia; Mauri, Sara
<b>12:00 - 13:00</b>	<b>Session: Landscape</b>	
	<b>Paper</b>	<b>Authors</b>
	A PHOTOGRAMMETRIC WORKFLOW FOR RAPID SITE DOCUMENTATION AT STOBI, REPUBLIC OF NORTH MACEDONIA	Jones, Kristen; Bevan, George
	INVENTORY PROJECT FOR THE CULTURAL ASSETS OF ISTANBUL: A MODEL FOR DIGITIZATION OF CULTURAL HERITAGE	Kudde, Esra; Erdogan, Islam; Ilze, Ihsan
	MAPPING EVOLVING HISTORICAL LANDSCAPE SYSTEMS	Branduini, Paola; Laviscio, Raffaella; L'Erario, Andrea; Toso, Francesco Carlo

	EXTRACTION AND VISUALIZATION OF 3D BUILDING MODELS IN URBAN AREAS FOR FLOOD SIMULATION	Kilsedar, Candan Eylül; Fissore, Francesca; Pirotti, Francesco; Brovelli, Maria Antonia
<b>14:00 - 15:00</b>	<b>Session: Poster</b>	
	MANAGEMENT OF 20TH CENTURY HYDROELECTRIC PLANTS AS INDUSTRIAL HERITAGE	Kuban, Nurdan; Güven, İsmail Talih; Pretelli, Marco
	A COMBINED STUDY OF ART WORKS PRESERVED IN THE ARCHAEOLOGICAL MUSEUMS: 3D SURVEY, SPECTROSCOPIC APPROACH AND AUGMENTED REALITY	Barrile, Vincenzo; Fotia, Antonino; Ponterio, Rosina Celeste; Mollica Nardo, Viviana; Giuffrida, Dario; Mastelloni, Maria Amalia
	VIRTUAL RESTITUTION OF THE PARIETAL DECORATION IN THE SALA DEL MOSAICO DE LOS AMORES. CASTULO ARCHAEOLOGICAL SITE (LINARES, SPAIN)	López-Martínez, Teresa; Calvo-Bartolomé, Beatriz; García-Bueno, Ana
	NETWORK THROUGH CENTURIES: FROM THE BYZANTINE ERA TO PRESENT DAYS	Fioretto, Elena
	HIGH RESOLUTION 3D ACQUISITION AND MODELLING IN CULTURAL HERITAGE KNOWLEDGE AND RESTORATION PROJECTS: THE SURVEY OF THE FOUNTAIN OF NEPTUNE IN BOLOGNA	Girelli, Valentina Alena; Tini, Maria Alessandra; Dellapasqua, Mirko; Bitelli, Gabriele
	UAV SURVEY FOR THE ARCHAEOLOGICAL MAP OF LILYBAEUM (MARSALA, ITALY)	Ebolese, Donatella; Lo Brutto, Mauro; Dardanelli, Gino
	HBIM LEVEL OF DETAIL-GEOMETRY-ACCURACY AND SURVEY ANALYSIS FOR ARCHITECTURAL PRESERVATION	Brumana, Raffaella; Banfi, Fabrizio; Cantini, Lorenzo; Previtali, Mattia; Della Torre, Stefano
	H-BIM AND THE DOMAINS OF DATA INVESTIGATIONS OF HERITAGE BUILDINGS CURRENT STATE OF THE ART	Khalil, Ahmed; Stravoravdis, Spyridon
	HBIM METHODOLOGIES FOR THE ARCHITECTURAL RESTORATION. THE CASE OF THE EX-CHURCH OF SAN QUIRICO ALL'OLIVO IN LUCCA, TUSCANY	Bacci, Gianluca; Bertolini, Francesca; Bevilacqua, Marco Giorgio; Caroti, Gabriella; Martínez-Espejo Zaragoza, Isabel; Martino, Massimiliano; Piemonte, Andrea
	ENVIRONMENTAL MICROCLIMATE MANAGEMENT AND RISK IN THE UNESCO WORLD HERITAGE SITE OF VILLA BARBARO MASER (ITALY)	Bonora, Anna; Fabbri, Kristian; Pretelli, Marco
	THE INTEGRATION OF A SCAN-TO-HBIM PROCESS IN BIM APPLICATION: THE DEVELOPMENT OF AN ADD-IN TO GUIDE USERS IN AUTODESK REVIT	Banfi, Fabrizio

SUSTAINABLE LAND USE EVALUATION BASED ON PRESERVATIVE APPROACH	Khademi, Somaye; Norouzi, Mostafa; Hashemi, Mahsa
TECHNOLOGY 4.0 FOR BUILDINGS MANAGEMENT: FROM BUILDING SITE TO THE INTERACTIVE BUILDING BOOK	Laurini, Eleonora; Rotilio, Marianna; Lucarelli, Matteo; De Berardinis, Pierluigi
HOW TO EXTRACT USEFUL INFORMATION ABOUT THE DECAY OF BASS RELIEVES IN ARCHAEOLOGICAL AREA	Malinverni, Eva Savina; Pierdicca, Roberto; Di Stefano, Francesco; Sturari, Mirco; Paolanti, Marina; Frontoni, Emanuele; Orazi, Roberto; Colosi, Francesca
BEP & MAPPING PROCESS FOR THE RESTORATION BUILDING SITE	Lucarelli, Matteo; Laurini, Eleonora; Rotilio, Marianna; De Berardinis, Pierluigi
INTEGRATED SURVEY FOR TENSIONAL ANALYSIS OF THE VAULT OF THE CHURCH OF SAN NICOLA IN MONTEDORO	Costantino, Domenica; Carrieri, Marcello; Restuccia Garofalo, Alfredo; Angelini, Maria Giuseppa; Baiocchi, Valerio; Bogdan, Adina Meri
GEOREFERENCING AND REPROJECTION ERROR INVESTIGATION ON IMAGE BASED 3D DIGITIZATION AND MAPPING OF HISTORICAL BUILDINGS	Altuntas, Cihan
INTEGRATED KNOWLEDGE ON A THREE- DIMENSIONAL BASIS: THE FOUNDATION OF THE CONSERVATION PROJECT AND POSSIBLE IMPLICATIONS IN THE BIM AREA THE CASE OF THE PORTRAIT ROOM OF PALAZZO BOREA D'OLMO IN SANREMO	Campanella, Christian; Alauria, Simona; Amatori, Luca
DOCUMENTATION OF HISTORICAL ARCHITECTURES THROUGH THE COMBINED USE OF DIGITAL SURVEYING TECHNIQUES	Valente, Riccardo; Oreni, Daniela; Barazzetti, Luigi; Roncoroni, Fabio; Previtali, Mattia
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3D INTEGRATED SURVEYS AND STRATIGRAPHIC METHODS FOR A DEEPER UNDERSTANDING OF HISTORICAL BUILDINGS. A CASE -STUDY OF THE FRANCISCAN MONASTERY AND THE IMMACOLATA CHURCH IN TROINA, SICILY	Campisi, Maria Teresa; Liuzzo, Mariangela; Giuliano, Sebastiano
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THE BENEFICIAL ROLE OF SURVEYS IN THE INVESTMENT ANALYSIS FOR PUBLIC BUILT CULTURAL HERITAGE CONCESSIONS	Boniotti, Cristina
A MONITORING METHOD OF COLOR DECAYING FOR COLORED PATTERNS IN ARCHITECTURAL HERITAGE	Zhang, Long; Xie, Jialiang; Qin, Lei; Liu, Zhe; Liu, Gang
STRUCTURAL REHABILITATION AND REAL TIME MONITORING OF "PONTE DELLE GRAZIE" BRIDGE IN FAENZA, ITALY	Corsi, Gabriele; Frediani, Ferdinando; La Monica, Michele; Lapi, Massimo; Miccinesi, Lapo; Micheloni, Michelangelo; Pieraccini, Massimiliano
INTEGRATED STUDY OF THE BEATA VERGINE ASSUNTA DOME WITH STRUCTURE FROM MOTION AND DIAGNOSTIC APPROACHES	Grillo, S.M.; Pilia, E.; Vacca, Giuseppina
CULTURAL PROJECTS AND GEOMATIC SURVEYS FOR THE RESILIENCE OF SCHOOL HERITAGE	Palestini, Caterina; Basso, Alessandro
ANCIENT MINING LANDSCAPES AND HABITATIVE SCENERIES IN THE URBAN AREA OF CENTOCELLE: GEOMATIC APPLICATIONS FOR THEIR IDENTIFICATION, MEASUREMENT, DOCUMENTATION AND MONITORING	Celauro, Angela; Marsella, Maria Antonietta; D'Aranno, Peppe; Maas, Alexander; Palenzuela Baena, Jose Antonio; Guerrero Tello, Francisco; Moriero, Ilaria
"GREEN ARCHITECTURE AS AN EFFECTIVE STRATEGY TO PRESERVE CULTURAL HERITAGE" SPECIAL MENTION" VANCOUVER CITY- CANADA"	Nasr ElDin, T.I.; Rehan, Nora Mohamed
THE USE OF TERRESTRIAL LASER SCANNING TECHNIQUES TO EVALUATE INDUSTRIAL MASONRY CHIMNEY VERTICALITY	Barazzetti, Luigi; Roncoroni, Fabio; Previtali, Mattia
LIDAR, TERRITORY AND ARCHAEOLOGICAL AREAS: NEW RESULTS AND PERSPECTIVES FOR THE KNOWLEDGE, ANALYSIS AND PRESERVATION OF COMPLEX CONTEXTS.	Garzulino, Andrea
3D HIGH-QUALITY MODELING OF SMALL AND COMPLEX ARCHAEOLOGICAL INSCRIBED OBJEC	Lastilla, Lorenzo; Ravanelli, Roberta; Ferrara, Silvia



	MULTI-SOURCE APPROACHES FOR COMPLEX ARCHITECTURE DOCUMENTATION: THE "PALAZZO DUCALE" IN GUBBIO (PERUGIA, ITALY)	Patrucco, Giacomo; Rinaudo, Fulvio; Spreafico, Alessandra
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