International Conference

FLORENCE HERI-TECH
The Future of Heritage Science and Technologies

Villa Vittoria, Palazzo dei Congressi-Florence

16 - 18 MAY 2018

www.florenceherititech.com
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELCOME GENERAL CHAIR</td>
<td>4</td>
</tr>
<tr>
<td>FLORENCE &amp; VENUES</td>
<td>6</td>
</tr>
<tr>
<td>PLENARY SESSIONS</td>
<td>7</td>
</tr>
<tr>
<td>PARALLEL SESSIONS</td>
<td>8</td>
</tr>
<tr>
<td>POSTER SESSION</td>
<td>13</td>
</tr>
<tr>
<td>COMMITTEES</td>
<td>14</td>
</tr>
<tr>
<td>SIDE EVENTS &amp; PRACTICAL INFORMATION</td>
<td>15</td>
</tr>
</tbody>
</table>
Dear Participants,

We are very pleased to welcome you to the fascinating and iconic city of Florence to participate in the International Conference Florence Heri-Tech, hosted by VI Edition of Art and Restoration Fair in Florence, in partnership with DIEF - Department of Industrial Engineering of University of Florence.

The Future of Heritage Science and Technologies Conference involves a large number of researchers and scholars from around the world and puts the industry’s current issues under the spotlight, specifically on issues related to innovative techniques and technologies.

The Conference is part of the Florence International Biennal for Art and Restoration, an international event attracting prestigious institutions and companies and creating a unique opportunity to bring together the academic world with industry.

OBJECTIVES

Heri-Tech is the first International Conference to welcome major researchers and scholars from all over the world, focusing on current and future issues in the field on issues related to innovative techniques and technologies.

The city of Florence will therefore be the international heart of Restoration and Cultural and Environmental assets as well as a forum for meeting and discussing for experts, operators and enthusiasts from around the world.

The Conference will be a significant opportunity for exchange between researchers and companies for the promotion of productive excellence, technological evolution, the greater use of culture for younger sections of the population and specialization in the educational field for graduates and PhD students.
Under the patronage of the University of Florence and organized with the support of the Department of Industrial Engineering, Florence Heri-Tech has gathered researchers and experts in the field of “heritage science and related technologies” to disseminate their recent research at an international level as well as to draw new inspiration.

The topics cover experiences in the use of innovative technologies and methods for documenting, managing, preserving and communicating cultural heritage. Eighty-three experts, coordinated by the General Chairs and supported by a high-level Scientific Committee, have been involved in the review process which led to the selection of 112 papers (out of 173 submissions) focusing on multi-disciplinary and inter-disciplinary research concerning future trends in material science, engineering-related methods for Cultural Heritage, diagnostic and monitoring as well as digital heritage.

The Honorary Chairs, Prof. Piero Baglioni, Prof. Giorgio Bonsanti, Prof. Vito Cappellini, Prof. Marco Ciatti, Prof. Maria Perla Colombini, Prof. Luigi Dei and Prof. Jose Delgado Rodrigues, which are not only experts in their research fields but also visionaries about the future of Cultural Heritage, further enhance the Conference prestige.

General Chairs extend their thanks to all authors, speakers, and those persons whose labor, financial support and encouragement made the Florence Heri-Tech event possible! Special thanks goes to Silvia Fiorini Granieri for her precious work in managing the organization of the Conference.

Dr. Lapo Governi, Dr. Rocco Furferi, Dr. Yary Volpe
Florence &
VENUES

THE CITY OF FLORENCE

Florence has a fascinating history and played a vitally important role in shaping European art over the centuries. The historic centre of Florence contains such a wealth of masterpieces that it is difficult to separate the city from its art works. Florence is not just about the Uffizi or Palazzo Pitti; it is full of smaller, less well known gems that make it endlessly delightful to explore. In 1982 it was declared a World Heritage Site by UNESCO and even just a walk around the city centre will launch you into layer upon layer of architectural styles and artistic innovation, all surrounded by deeply-rooted culture, food and wine.

VILLA VITTORIA
PALAZZO DEI CONGRESSI
Piazza Adua, 1

The main venue is the 19th century Villa Vittoria in Palazzo dei Congressi. This historical venue is conveniently located in the city centre next to the central railway station.

At first glance Villa Vittoria is hidden behind the contemporary façade of the Palazzo dei Congressi, revealing itself when you’ve crossed the entrance hall and stepped into the centuries-old park that is part of the complex.

Villa Vittoria has been equipped with all modern comforts, yet maintains its original charm with lunette vaults on the ground floor, finely decorated coffered ceilings on the first floor, mosaic pavements in marble and terracotta, stone and marble marquetry portals, elegant coat of arms, finely decorated wrought iron gates and painted polychrome glass windows.
16 MAY, 2018

9:30-10:30 – AUDITORIUM


10:45-12:00 – SALA VERDE

10:45-11:15: Plenary General Chairs
Prof. Giorgio Bonsanti, Prof. Eng. Rocco Ferri, Prof. Eng. Lapo Governi, Prof. Eng. Yary Volpe, Prof. Mauro Matteini - Dief, University of Florence, ICVBC CNR

11:15-11:35 Building Resilience to Natural Disasters. From G7 Science to the CERHER experience - Prof. Antonio Sgamellotti, Accademia Nazionale dei Lincei, University of Perugia

11:35-11:50 Company & Business Session: MOGS s.r.l Presentation

17 MAY, 2018

9:30-10:30 – AUDITORIUM

9:30-9:50 Digital Access to Culture Heritage: Virtual Galleries - Prof. Emeritus Vito Cappellini, University of Florence

9:50-10:05 Company & Business Session: DIMAL s.r.l Presentation

10:05-10:15 Company & Business Session: ISTEMI sas Presentation

10:15-10:40 ICOMOS / Wikipedia

18 MAY, 2018

AUDITORIUM 9:30-12:30
EUROPEAN PLENARY SESSION

9:30-9:40 Prof. Luigi Dei, Rector of University of Florence

9:40-9:50 tbc

9:50-10:15 EU-project NANORESTART (NANOmaterials for the REStoration of works of ART) - Dr. Rodorico Giorgi

10:15-10:35 ECHOES “Enabling Cultural Heritage Oriented European Strategies” - Dr. Piero Baglioni

10:35-10:50 NANO-CATHEDRAL: Nano-materials, knowledge and skills for the restoration and protection of stone monuments - Dr. Isella Vicini, Dr. Andrea Lazzeri, Dr. Maria-Beatrice Coltelli, Dr. Lucia Tonio, Dr. Johannes Weber, Dr. Laura Niccolai, Dr. Ulrike Brinkmann, Dr. Angelica Pujia

11:10-11:30 The ARROWS Project: robotic technologies for underwater archaeology Dr. Alessandro Ridolfi, Dr. Alotta, Dr. Costanzi, Dr. Ridol, Dr. Salvetti, Dr. Reggianini, Dr.Kruusmaa, Dr. Salumae, Dr. Lane, Dr. Frost, Dr. Tsiogkas, Dr. Cocco, Dr. Gualdesi, Dr. Lacava, Dr. Roig, Dr. Gundogdu, Dr. Dede, Dr. Baines, Dr. Tusa, Dr. Latfi, Dr. Scaradozzi

11:30-11:50 Enhancing Heritage fruition through 3D semantic modelling and digital tools: the INCEPTION project - Dr. Federica Maietti, Dr. Roberto Di Giulio, Dr. Emanuele Piaia, Dr. Marco Medici, Dr. Federico Ferrari

11:50-12:00 Company & Business Session: RISVIEL s.r.l Presentation

12:00-12:10 Company & Business Session: C-SIX s.r.l Presentation
16 MAY 2018

12:10-13:25 – ROOM 106
ENGINEERING

12:10-12:35 Motion magnification analysis applied to the dynamic identification of historic constructions – Dr. Vincenzo Fioriti, Dr. Ivan Roselli, Dr. Angelo Tati, Dr. Roberto Romano and Dr. Gerardo De Canio
12:35-13:00 Results Of Diagnostic Campaign Promoted By Aiar In The Deposits Of The Archaeological Museum Of Paestum – Dr. Maria Emanuela Oddo, Dr. Ricci, Dr. Angeli, Dr. Fantino, Dr. Sibilia, Dr. Alberghina, Dr. Schiavone, Dr. Grifa, Dr. Mercurio, Dr. Germinario, Dr. Izzo, Dr. Langella5, Dr. Massa, Dr. Bracci, Dr. Magnini, Dr. Costa, Dr. Pelagotti, Dr. Zuchtriegel, Dr. Lubritto
13:00-13:25 Methodology for tensile testing historic tapestries – Dr. Pedro Josue Maximo Rocha, Dr. D’Ayala and Dr. Vlachou-Mogire

12:10-13:25 – ROOM 105
ICT AND DIGITAL HERITAGE

12:10-12:35 Knitting virtual tribes together: new audiences for cultural objects – Dr. Jane Malcom Davies
12:35-13:00 The Revival of a Cultural Heritage: Hangzhou Embroidery and its Development Today – Dr. Chenxi Qi
13:00-13:25 The future of Heritage Science and Technologies from a legal point of view – Dr. Silvia Segnalini

12:10-13:25 – ROOM 105
DIAGNOSTIC AND MONITORING

12:10-12:35 New generation monitoring devices for heritage caretakers to detect multiple events and hazards – Dr. Olivier Schalm, Dr. W Anaf, Dr. J Callier and Dr. Diana Leyva Pernia
12:35-13:00 Seismic Assessment of Artefacts: The Case of Juno’s Fountain of The National Museum of Bargello - Dr. Stefania Viti, Dr. Cerri, Dr. Pirazzoli, Dr. Tanganelli, Dr. Verdiani, Dr. Rotunno, Dr. Pintucchi
13:00-13:25 Improvement of visibility of concealed features in misregistered NIR reflectograms by Deep learning – Dr. Honza Blažek, Dr. Oldrich Vlasic, Dr. Barbara Žitova

15:10 – 16:25 ROOM 106
ENGINEERING

15:10-15:35 Mutual validation between different modal analysis techniques for dynamic identification of the so-called Temple of Minerva Medica, Rome – Dr. Ivan Roselli, Dr. Vincenzo Fioriti, Dr. Marialuisa Mongelli, Dr. Irene Bellagamba and Dr. Gerardo De Canio
15:35-16:00 A New Methodology for the Structural Analysis of 3D Digitized Cultural Heritage through FEA – Dr. Sara Gonizzi Barsanti, Dr. Gabriele Guidi
16:00-16:25 Numerical evaluation of seismic-induced damages in masonry elements of historical arch viaduct – Dr. Izabela Joanna Drygala, Dr. J Dulinska, Dr. Ł Bednarz and Dr. J Jasienko

15:10 – 16:25 ROOM 105
ICT AND DIGITAL HERITAGE

15:10-15:35 Digital restoration of the Last Supper and multimedia tools to experience education – Dr. Mario Taddei
15:35-16:00 Discovering Cultural Heritage Through the Use of Virtual Reality for Education – Dr. Vasileios Apollon Papas, Dr. Moneera Alsagar
16:00-16:25 Immersive Virtual Reality as A Resource for Unaccessible Heritage Sites – Dr. Giovanni de Gasperis, Dr. Alessio Cordisco and Dr. Francesco Cucchiara

15:10 – 16:25 ROOM 105
DIAGNOSTIC AND MONITORING

15:10-15:35 Application Of Coatings On Silver Studied With Punctual And Imaging Techniques: From Specimens To Real Cases – Dr. Monica Galeotti, Dr. Vittorio Barra, Dr. Claudia Daffara, Dr. Simone Porcinai
15:35-16:00 Revisiting Reflectance Transformation Imaging (RTI): A Tool for Monitoring and Evaluating Conservation Treatments – Dr. Kate Seymour, Dr. Rosa Boute, Dr. Marjolein Hupkes, Dr. Noa Kollaard, Dr. Sepha Wouda, Dr. Lauren ten Wolde
16:00-16:25 Limits of reflectance spectroscopy in identifying pigments in paint layers – Dr. Anna Pelagotti, Dr. Pronti Dr. Uccheddu, Dr. Massini Rosati Dr. Felici
17:00-17:25 Determination of material parameters of thermal insulation boards for the application on interior side of historical walls – Dr. Lukas Fiala, Dr. Miloš Jerman and Dr. Robert Černý

17:25-17:50 Basic physical, mechanical and hygric properties of renders suitable for historical buildings – Dr. Robert Cerny, Dr. Vejmelková, Dr. Keppert, Dr. Jerman

17:50-18:15 The San Giovanni Baptistery in Florence (Italy): characterisation of the serpentinite floor – Dr. Alba Patrizia Santo, Dr. Pecchioni, Dr. Garzonio

18:00-18:20 Self-Cleaning and Antifouling Nanocomposites for Stone Protection: Properties and Performances Of Stone/Nanomaterial Systems – Dr. Marco Roveri, Dr. Gherardi, Dr. Goidanich, Dr. Gulotta, Dr. Castelvetro, Dr. Fischer, Dr. Winandy, Dr. Weber and Dr. Tonioło

17 May 2018

11:00-11:25 On the generation of numerical models from point clouds for the analysis of damaged Cultural Heritage - Dr. Gabriele Bitelli, Dr. Giovanni Castellazzi, Dr. Antonio Maria D’Altri, Dr. Stefano de Miranda, Dr. Alessandro Lambertini and Dr. Ilenia Selvaggi

11:25-11:50 Duality between BIM and GIS: an example related to the medieval bridge Azzone Visconti - Dr. Luigi Barazzetti

11:50 - 12:15 Advanced procedure for documenting and assessment of Cultural Heritage: from Laser Scanning to Finite Element – Dr. Grazia Tucci, Dr. Gianni Bartoli, Dr. Michelle Betti, Dr. Valentina Bonora, Dr. Mustafa Korumaz, Dr. Armağan Güleç Korumaz

12:15-12:40 High precision survey as calibration tool for structural modeling – Dr. Eva Coisson, Dr. Coïsson, Dr. Cotti and Dr. Ottoni

12:40-13:05 Point clouds turned into finite elements: the umbrella vault of Castel Masegra – Dr. Luigi Barazzetti, Dr. Brumana, Dr. Della Torre, Dr. Gusmeroli, Dr. Schiantarelli

12:40-13:05 ICT as a tool to foster inclusion: Interactive map to access cultural heritage sites – Dr. Sebastiano Marconcini
17:00-17:20 Comparing two 3D measurement techniques for documenting painted wooden panels surface deformations on a real test case: “Mystical Marriage of Saint Catherine” by Renaissance artist Piero di Cosimo - Dr. Anna Pelagotti, Dr. Francesca Uccheddu, Dr. Emanuela Massa, Prof. Monica Carfagni

17:20-17:40 Comparative analysis of two self-portraits by Igor Vasiljev using non-invasive methods – Dr. Marina Djuric, Dr. Jovanovic, Dr. Velikic

17:40-18:00 Development of a multi-analytical approach to investigate the fading of eosin in painting matrices – Dr. Ilaria Degano, Dr. Sabatini, Dr. Giugliano, Dr. Liuveras-Tenorio, Dr. Sokolová, Dr. Thoury and Dr. Colombini

18:00-18:20 Non-destructive survey of the Clasense library: Collection condition and storage scenario modelling – Dr. Floriana Coppola, Dr. Natalie Brown, Dr. Alberto Modelli, Dr. Floriana Amicucci, Dr. Matija Strlič

12:10-12:35 An engineering study of a Bronze Age war chariot – Dr. Angelo Mazzù, Dr. Gambari, Dr. Uberti, Dr. Bodini, Dr. Pasinetti and Dr. Sansoni

12:35-13:00 Automatic illustration of lithics from 3d scanned models – Dr. Paolo Neri, Dr. Barone, Dr. Paoli, Dr. Razionale, Dr. De Santis, Dr. Mailland

13:00-13:25 A customised atmospheric pressure plasma jet for conservation requirements – Dr. Alessandro Patelli, Dr. Verga, Dr. Nodari, Dr. Petrillo, Dr. Delva, Dr. Ugo and Dr. Scopece

17:00-17:20 Museum for All: Wearable Immersive Virtual Tours in Museums for People with Neurodevelopmental Disorders – Dr. Niccolò Messina, Dr. Vito Matarazzo, Dr. Daniele Occhiuto, Dr. Mirko Gelsomini, Dr. Franca Garzoñof

13:00-13:25 Enhancing cultural tourism by a mixed reality application for outdoor navigation and information browsing using immersive devices – Dr. Federico Manuri, Dr. Federico Debandi, Dr. Roberto Iacoviello, Dr. Alberto

12:35-13:00 ATMOSPHERIC PRESSURE PLASMA AS A TOOL FOR DECONTAMINATION AND FUNCTIONALIZATION OF WOODEN SURFACES – Dr. Constanze Roth M.A., Dr. Sven Gerullis, Dr. Oliver Beier, Dr. Andreas Pfuch, Dr. Annett Hartmann, Dr. Bernd Grünler

15:10-15:30 Smart Cultural Site: an Interactive 3d Model Accessible to People with Visual Impairment – Dr. Barbara Leporini, Dr. Rossetti, Dr. Furfari, Dr. Pelagatti and Dr. Quarta

15:30-15:50 3d Reconstruction Of Rock Paintings: A Cost-Effective Approach Based On Modern Photogrammetry For Rapidly Mapping Archaeological Findings – Dr. Cristina Castagnetti, Dr. Rossi and Dr. Capra

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15:30-15:50 3d Reconstruction Of Rock Paintings: A Cost-Effective Approach Based On Modern Photogrammetry For Rapidly Mapping Archaeological Findings – Dr. Cristina Castagnetti, Dr. Rossi and Dr. Capra

16:50-16:10 Advanced Experience of Music through 5G Technologies – Dr. Adriano Baratè, Dr. Goffredo Haus, Dr. Luca A. Ludovico

16:10-16:30 The bowed string instruments: acoustic characterization of unique pieces from the Italian lutherie – Dr. Francesco Leccese, Dr. Salvadori, Dr. G. Bernardini, Dr. P. Bernardini

18 MAY 2018
15:10-15:30 ROOM 105
ICT AND DIGITAL HERITAGE

15:10-15:30 The Digitized Old Books: First Grammar to Teach Romanian Language for Bulgarians – Dr. Velislava Stoykova
16:30-16:50 What is this painting about? Experiments on Unsupervised Keyphrases Extraction algorithms – Dr. Isabella Gagliardi, Dr. Artese
16:50-17:10 Review on new technologies on Art and Archaeology: The Vesuvian cities – Dr. Ana Perez Saborido, Dr. Castano, Dr. Buono
16:10-16:30 CHEOPS: Cultural Heritage Enhancement Over Cyber-Physical Systems – Dr. Fatema Gabr, Dr. Yaseen Abdabou, Dr. Fatema Mohsen, Dr. Amr El Mougy, Dr. Slim Abdennadher

15:10-16:30 ROOM 104
ENGINEERING

15:10-15:30 Assessment of thermo-hygrometric indicators for preventive conservation inside museums: in field monitoring and passive microclimatic control strategies applied to “La Specola” museum of Florence – Dr. Cristina Carletti, Dr. Fabio Sciurpi, Dr. Leone Pierangiol
15:30-15:50 Performance assessment of a heat and moisture dynamic simulation model in IDA ICE by comparison with WUFI Plus – Dr. Francesca Frasca, Dr. Cristina Cornaro and Dr. Anna Maria Siani
16:50-17:10 Artworks in the spotlight: characterization with a multispectral LED dome – Dr. Mihaela Irina Ciortan, Dr. Dulecha Tinsae, Dr. Giachetti Andrea, Dr. Pintus Ruggero, Dr. Jaspel-Villanueva Alberto and Dr. Gobbetti Enrico
16:10-16:30 Technological improvements in creating controlled thermo-hygrometric conditions in sealed microenvironments: the Dew Point Climatic Generator – Dr. Ottaviano Allegretti, Dr. Paolo Dionisi-Vici

17:00-17:25 ROOM 105
ICT AND DIGITAL HERITAGE

17:00-17:25 From Alhambra to Digital Projection: Designing a Digital Media Cultural Heritage Project Based on the Transformative Qualities of Islamic Calligraphy – Dr. M Javad Khajavi
17:25-17:50 Lab4Dive Mobile Smart Lab for Augmented Archaeological Dives – Dr. Silvia Zingaretti, Dr. Scaradozzi, Dr. Ciuccoli, Dr. Costa, Dr. Palmieri, Dr. Bruno, Dr. Rifacco, Dr. Cozza, Dr. Raxis and Dr. Tzifopanopoulos
17:50-18:15 Conoscenza, conservazione e tecnologie: un progetto di ricerca sulle strade dell'Antica Pompei – Dr. Gianluca Viggiano, Dr. Albertart Martellone, Dr. Massimo Osanna

17:00-17:25 ROOM 104
MATERIALS SCIENCE

17:00-17:25 Art restoration, protection and education in China - Murals, materials study in humid area of southern China – Dr. Shan Zeng
17:25-17:50 Study on Removal of Iron Rust from Paper Objects with Thiourea Dioxide – Dr. Huiping Xing, Dr. Ouya Ma, Dr. Qi Yong, Dr. Chun Yang, Dr. Xiaolian Chao and Dr. Yuhu Li
17:50-18:15 Phosphate-based treatments for consolidation of salt-bearing Globigerina limestone – Dr. Gabriela Graziani, Dr. Sassoni, Dr. Scherer Dr. Franzoni

The program may be modified until the first day of Conference
Please see the site: www.florenceheritech.com and download the official app
Dr. Andrijana Sever Škapin, Dr. Snežana Vučetić, Dr. Andreja Pondelak, Dr. Sabina Kramar, Dr. Luka Škrlep, Dr. Vilma Ducman, Dr. Ana M. Vidaković, Dr. Siniša L. Markov, Dr. Jonjaua Ranogajec: the use of new consolidants and photocatalytic coating for THE TREATMENT of THE porous mineral substrates

Dr. Anna Pelagotti, Dr. Francesca Uccheddu, Dr. Emanuela Massa, Dr. Monica Carfagni: Comparing two 3D measurement techniques for documenting painted wooden panels surface deformations on a real test case: “My- stical Marriage of Saint Catherine” by Renais- sance artist Piero di Cosimo

Dr. Arzak Abdeltawab, Dr. Shrief, Eissa, Dr. Abdellatif, Dr. Afandy and Dr. Wahba: Non-destructive Analysis and Conservation of Greek Papyrus in Egyptian Museum Cairo, Egypt

Dr. Chiara Bartalucci, Dr. Francesco Borchi, Dr. Monica Carfagni, Dr. Sergio Luzzi, Dr. Lucia Busa: The Acoustic Design and Requalification Of An Auditorium In A Church And Of A Historical Theater

Dr. Enrico Sassoni, Dr. Gabriela Graziani Dr. Elisa Franzoni, Dr. George W. Scherer: New insights on protective treatments for marble by FIB-SEM

Dr. Francesca Frasca, Dr. Alessia Caratelli and Dr. Anna Maria Siani: The capability of capacitive sensors for monitoring of relative humidity in hypogeum environments

Dr. Francesco Gherardini, Dr. Mattia Santachiara, Dr. Francesco Leali: An Augmented Reality Application for the Visualization and the Pattern Analysis of a Roman Mosaic

Dr. Francesco Leccese, Dr. Salvadori, Dr. Feltrin, Dr. Morozzi, Dr. Nieri: Study on the suitable lighting design of Beato Angelico’s artworks displayed at the National Museum of San Matteo in Pisa (Italy)

Dr. Ilaria Cacciari, Dr. Ciofini, Dr. Gallo, Dr. Siano: THz imaging tool for characterizing both visible and concealed metals in paint layers

Dr. Juan Carlos Jaramillo, Dr. Occhiuto, Dr. Garzotto: Artworks’ Features Discovery Through Engaging Conversations for Children

Dr. Lavinia De Ferri, Dr. Mazzini, Dr. Vallotto, Dr. Manzini, Dr. Pojana: In-situ noninvasive characterization of pigments and alteration products on the masonry altar of S. Maria ad Un- das parish church (Idro, Brescia, Italy)

Dr. Lavinia De Ferri, Dr. Vallotto, Dr. Cianciosi, Dr. Cadamuro, Dr. Bertoldi, Dr. Bisutti, Dr. Gelichi, Dr. Pojana: The baby in the amphora and the Niobe: 3D rendering applications for cultural heritage documentation and valorisation purposes

Dr. Michele Bici, Dr. Annsoccia, Dr. Campana, Dr. De Lellis: Virtual prototyping of medieval weapons for historical reconstruction of siege scenarios starting from topography and archaeological investigations

Dr. Moamen Othman, Eltoukhy camal, Mohamed Abdel-rahman, Wafaa Habib, Basem Gehad, Eman Zidan, Eid Mertah, Ahmed Ta- rek, Eslam shaene: Unearthing the Secrets of Fayum Mummy Portraits Hawara Portraits of young woman (Demos) with her daughter

Dr. Monica Carfagni, Dr. Lapini, Dr. Calamai, Dr. Argenti: Application of binaural audio techniques for immersive fruition of cultural heritage

Dr. Pamela Ferrari, Dr. Antonio Mirabile, Dr. Rodorico Giorgi, Dr. Piero Baglioni: Strong organogels for the removal of Pressure Sensitive Tapes from paper artworks

Dr. Pedro Martin Lerones, Dr. López, Dr. Llamas, Dr. Gómez-García-Bermejo and Dr. Zalama: Linking HBIM graphical and semantic information through the Getty AAT: Practical application to the Castle of Torrelodón

Dr. Raquel Camerini, Dr. David Chelazzi, Dr. Ro- dorico Giorgi, Dr. Piero Baglioni: Silica-based nano-composite for the consolidation of earthen masonry

Dr. Rocco Furferi, Dr. Francesco Buonamici, Dr. Lapo Governi, Dr. Luca Puggelli, Dr. Yary Volpe: Tactile reproduction of paintings: the experience of the Department of Industrial Engineer- ing of Florence

Dr. Sara Goidanich, Dr. Petitti, Dr. Toniolo: Sensors for real-time, on site corrosion monitoring of metallic works of art
honoray COMMITTEE

Prof. Baglioni, Piero – University of Florence
Prof. Bonsanti, Giorgio – University of Florence
Prof. Emeritus Cappellini, Vito – University of Florence
Prof. Cather, Sharon – The Courtauld Institute of Art, London
Prof. Ciatti, Marco – Opificio delle Pietre Dure, Florence
Prof. Colombari Maria Perla – CNR-ICVBC, National Research Council of Italy – Institute for the Conservation and Valorization of Cultural Heritage
Prof. Dei, Luigi – Rector of the University of Florence
Prof. Delgado Rodrigues, Jose – Laboratorio Nacional De Engenharia Civil, Lisbon
Prof. Santos, Pedro – Fraunhofer Institute for Computer Graphics Research IGD, Darmstadt
Prof. Sgamellotti, Antonio – University of Perugia

conference ORGANIZERS

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Dr. Elena Amodei

Deputy Manager
Dr. Emanuele Amodei

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Dr. Vitaliana Floresta
Dr. Francesco Luglio

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Cassar, JoAnn – University of Malta
Cavalieri, Duccio – Department of Biology, University of Florence
Cheung, Sidney – The Chinese University of Hong Kong
Del Bianco, Corinna – International Institute Life Beyond Tourism and adviser of the Romualdo Del Bianco Foundation
Di Angelo, Luca – University of L’Aquila
Bruno, Fabio – University of Calabria
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Guidi, Gabriele – Polytechnic of Milan
Lapini, Alessandro – University of Florence
Macdonald, Susan – Getty Conservation Institute
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Martín Lerones, Pedro – Fundación CARTIF, Spain
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Pellicciari, Marcello – University of Modena and Reggio Emilia
Peñalver Martínez, María Jesús – Universidad Politécnica de Cartagena Razionale, Vincenzo Armando – University of Pisa
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Seymour, Kate – Stichting Restauratie Atelier Limburg, Maastricht
Tiano, Piero – Institute for the Conservation and Valorization of Cultural Heritage (ICVBC)
Tucci, Grazia – University of Florence
Uccheddu, Francesca – University of Florence
Vaccaro, Vincenzo – Opera del Duomo Florence
Zanini, Alessandro – Assorestauro
WEDNESDAY 16, 2018
PALAZZO VECCHIO, SALA D’ARME
Piazza della Signoria
h.19:00

Civic Reception which will be attended by Authorities, Institutions, Exhibitors and Conference participants.

FRIDAY 18, 2018
LA LOGGIA RESTAURANT
Piazzale Michelangelo
h. 20:30

Gala dinner

TAXI
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Taxi Firenze 4390 - Tel. +39 055 43 90

BUS - ATAF
Each ride costs 2€ on board. 1.20€ if purchased at the train station or in a tobacco shop, or 4 trips for 4.70€.

For more information visit: www.ataf.net

SHUTTLE FLORENCE AIRPORT: Volainbus, bus tickets cost 5€ per person if purchased inside the train station at ATAF office, 6€ per person on board. Departures from Florence City Centre (S.M.N. Central Station and SITA bus station) from 5.30 a.m. to 11.00 p.m. every half hour. Departures from A. Vespucci Airport. From 6.00 a.m. to 11.30 p.m. every half hour.

SHUTTLE PISA AIRPORT
For more information visit www.autostradale.it

SHUTTLE BOLOGNA AIRPORT
For more information visit www.appenninoshuttle.it

TRAIN
Santa Maria Novella (S.M.N. Central Station): Stazione Ferroviaria, Piazza Santa Maria Novella, 50123 Firenze
firenzesantamarianovella.it