International Conference
FLORENCE HERI-TECH
The Future of Heritage Science and Technologies

PREVIEW OF THE CONFERENCE

APRIL 2026								
	Day1 27 Apr Monday		Day2 28 Apr Tuesday		Day3 29 Apr Wenesday		Day4 30 Apr Thursday	
Morning	**-Registration** **-Fair Inauguration**	Arsenale Pavilion, Fortezza da Basso V.le Filippo Strozzi, 1, 50129 Firenze FI	**Multi-Theme Sessions：** **ICT & AI · Education for Cultural Heritage · Environment**	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI	**Online Live Session:** **ICT/Engineering · ICT · Museology**	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI	**Historic Center Walking Tour** + **Thematic Sessions:** **ICT & AI · Material Science**	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI
Lunch Break								
Afternoon	**-Conference Opening** **-Thematic Sessions:** **ICT & AI · Material Science**	Arsenale Pavilion, Fortezza da Basso V.le Filippo Strozzi, 1, 50129 Firenze FI	**Multi-Theme Sessions：** **Museology · Material Science · Diagnostic & Monitoring · Architecture**	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI	**Video Session**	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI		
Evening					**Cocktail Gala**			

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PROGRAM OF THE CONFERENCE

Day 1-27 April 2026						
Time	Location	Conference Schedule				
10:00-13:00	Arsenale Pavilion, Fortezza da Basso V.le Filippo Strozzi, 1, 50129 Firenze FI -Stand Palazzo Spinelli -Room LAVANDA	Check In Conference Participants				
		Fair Inaguration				
13:00-14:50		Lunch Break				
14:50-14:55		**Dott. Giacinto Bosco** **Head of EU Projects at Promo Firenze**				
14:55-15:05		Conference Opening - Thematic Session ICT & AI **Prof. Rocco Furferi** **Department of Industrial Engineering of Florence (DIEF), University of Florence**				
		Presenter and Affiliation	Country	Presentation Lamguage	Title of Presentation	Research Area
15:05-15:20		**Rocco Furferi** University of Floreance	**Italy**	English	*Advanced engineering and computational methods for Cultural Heritage diagnostics, conservation, and valorisation: insight from Florence Heri-Tech 2024*	**ICT & AI**
15:20-15:35		**Maja Uskokovic, Ilija Mlinarević** Maritime Museum of Montenegro	**Montenegro**	English/Italian	*Planned Replacement of Museum Display Cases in the Maritime Museum of Montenegro:: A Work-in-Progress Case Study in Museum Management and Sustainability.*	
15:35-15:50		**Santeri Vähämäki** University of Turku	**Finland**	English	*Leveraging Clustering for Similarity Investigation of Amulet Images*	
15:50-16:05		**XIAOJIA ZHANG** Politecnico di Milano	**Italy**	English	*Artificial Intelligence Enabled Computer Vision for Non-Destructive Diagnostics of Cultural Heritage at Multiple Scales*	
16:05-16:20		**Ana Edmundo** NOVA Information Management School, NOVA University Lisbon	**Portugal**	English	*Beyond "Beautiful": Profiling Evaluative Discourse in Cultural Heritage Online Reviews with Explainable AI*	
16:20-16:50	Bar Arsenale Pavillon	Coffe Break-30 minutes				
16:50-17:00		Thematic Session Material Science opening **Prof. Francesco GHERARDINI** **Department of Engineering "Enzo Ferrari" of the University of Modena and Reggio Emilia**				
17:00-17:15		**Francesco Ruscio, Simone Tani** University of Pisa	**Italy**	English	*Enhancing the study of Underwater Cultural Heritage using marine robotics: the case study of Liberty and Marmi shipwrecks in Vada, Tuscany*	**Material Science**
17:15-17:30		**Marina Polizzi** University of Turin	**Italy**	English	*Thermal increase and induced alterations on frescoes due to active fiber laser irradiation*	
17:35-17:50		**Rocco Furferi** University of Floreance	**Italy**	English	*Materials Science for Cultural Heritage: Insights from the Florence Heri-Tech 2024 Conference*	
17:50-18:05		**Marta Cremonesi** University of Antwerp	**Belgium**	English	*Towards the validation of plasma-generated atomic oxygen for textile cleaning: a systematic benchmark of soot removal from pongee silk*	
18:05-18:20		**Paula Carmona-Quiroga** Eduardo Torroja Institute for Construction Science (IETcc-CSIC)	**Spain**	English	*Characterization of the Lime Mortar of the Roman Aqueduct of Caraca, in Central Spain: an examination of the cementitious gel*	

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Day 2-28 April 2026

Time	Location	Conference Schedule				
10:00-10:30	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI	Check In Conference Participants				
10:30-10:40		Multi-Theme Sessions: Diagnostic & Monitoring · Material Science · Architecture · Environment **Dr. Eng. Anna Pelagotti** **CNR Liaison Office Brussels**				
		Presenter and Affiliation	Country	Presentation Lamguage	Title of Presentation	Research Area
10:40-10:55		**Helen Cunningham-Johns** King's College London	**United Kingdom**	English	*Integrated PFIB-ToF-SIMS and 3D-PFIB-SEM for material characterisation of paintings*	**Diagnostic & Monitoring**
10:55-11:05		**Adele Ferretti** Department of Chemistry and Industrial Chemistry, University of Pisa	**Italy**	English	*Beyond diagnostics: new perspectives on historical inks through liquid chromatography*	
11:05-11:20		**Emanuela Massa** Art-Test sas, Firenze **Matilde Leogrande** University of Florence	**Italy**	English	*The pastel technique: from historical-technical study to the scientific characterization of materials*	
11:20-11:35		**Gerhard Stierhof** Stierhof E-Technik Company	**Germany**	English	*Water and Humidity Protection in historic and modern Buildings in Conjunction with controlled Monitoring*	
11:35-11:55	Sponsor presentation Museo del Restauro	Coffe Break-20 minutes **Sint Technology - Ing. Alessio Benincasa**				
11:55-12:10		**Giulia Caroti** Department of Chemistry and Industrial Chemistry, University of Pisa	**Italy**	English	*Investigation of Atomic Oxygen Interactions with Cultural Heritage Substrates during Cleaning Treatments*	**Material Science**
12:10-12:25		**Filippo Antonello** Architect- Confrestauro, Verona	**Italy**	English	*Inspection Techniques And Risk Analysis For The Conservative Management Of Arco Castle(TN)*	**Architecture**
12:25-12:40		**Carlo Ostorero** Department of Structural, Building and Geotechnical Engineering, Politecnico di Torino	**Italy**	English	*Artificial Intelligence for Creation of a Restoration Model: Turin's Liberty atlas*	
12:40-12:55		**Sophie Dolezon** Laboratory of Atmospheric Systems (LISA), UPEC Main Campus	**France**	English	*Side effects after the chemical cleaning of black crusts on a Parisian façade*	**Enviroment**
12:55-13:10		**Rui Jiang** Soochow University	**China**	English	*Over two-thirds of UNESCO Cultural World Heritage Sites in the Grand Canal, China, are at risk from extreme temperatures and rainfall under future climate change*	
13:10-15:30		Lunch				
15:20-15:30		Multi-Theme Sessions Opening: Education for Cultural Heritage · Museology · ICT & AI **Dr. Kate Seymour** **Art Conservation Education, Netherlands**				
15:30-15:45		**Kate Seymour** Art Conservation Education, Netherlands	**Netherlands**	English	*The Technical Study of the "Two St. Johns": A Decade of Conservation and Analytical Synthesis (2012–2022)*	**Education For Cultural Heritage**
15:45-16:00		**Wenhui Dong, Yuehan Wang, Pengjing li, Xiaoyang Zhu, Yue Jiang, Chenxi Qi** China Academy of Art	**China**	English	*Tongyun Confluence: XR Interaction and Experience Design for the Grand Canal Transport Culture in China*	
16:00-16:15		**Marcos Tognon, Haroldo Gallo** University of Campinas (UNICAMP)	**Brazil**	Italian	*Archaeology of manufacturing: Rammed Earth in Brazil, Technique and Metrics*	
16:15-16:35	Sponsor presentation Museo del Restauro	Coffe Break-20 minutes **Nadir Plasma Technology - Paolo Scopece, Ph.D**				
16:35-16:50		**Jovan Djordjevic** -Department of Art History, University of Belgrade, Serbia -Department of Conservation and Restoration, University of Arts in Belgrade, Serbia	**Serbia**	English	*Are "digital" and "virtual restoration" synonyms? : Exploring terminological possibilities and their practical outcomes*	**Museology**
16:50-17:05		**Serena Barone** Italian Institute for Nuclear Physics	**Italy**	English	*Unveiling hidden paintings in pictorial artworks during pre-processing of MA-XRF raw data using fuzzy Gustafson-Kessel clustering with GPU*	**ICT & AI**
17:35-17:50		**Philémon Beghin** Catholic University of Louvain (UCLouvain)	**Belgium**	English	*From Elevation Maps To Contour Lines: SVM and Decision Trees to Detect Violin Width Reduction*	
17:05-17:20		**Alessia Remondini** Sapienza University of Rome	**Italy**	Italian	*A Modular End-to-End Pipeline for AI-Driven Conservative Restoration of Degraded Artworks*	
17:20-17:35		**Claudia Gagliardi** University of Florence	**Italy**	English	*AI- and IoT-Based strategies in Panel Paintings Conservation: Methods for Parameterizing and Identifying Environmental Criticalities*	
17:35-17:50		**Cristiano Riminesi** Institute of Heritage Science of the National Research Council of Italy (CNR ISPC)	**Italy**	English	*Investigation of the wooden coffered ceiling through the integration of Infrared Thermography and digital survey data within the information model of the Salone dei Cinquecento*	**Diagnostic & Monitoring**

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Day 3-29 April 2026

Time	Location	Conference Schedule				
10:00-10:30	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI	Check In Conference Participants				
10:30-10:40		Online Live Session Opening: ICT/Engineering · ICT · Museology **Catherine Burnett** **Head of International Relations, Istituto per l'Arte e il Restauro - Palazzo Spinelli**				
		Presenter and Affiliation	Country	Presentation Lamguage	Title of Presentation	Research Area
10:40-10:55	Online Live Presetation	**Winnie Lam** Plinth BV, Netherlands	**Netherlands**	English	*From Ambition to Infrastructure: Completing the 3D Heritage Digitisation System*	**ICT/ENGINEERING**
10:55-11:15		**Riccardo Pallotto** Università di Macerata	**Italy**	English	*A Semi-Automated Framework for 3D Reconstruction of Medieval Manuscript Miniatures*	
11:15-11:30		**Jesus Angel Sanche** University of Santiago de Compostela	**Spain**	English	*Digital Reconstructions as Tools for Critical Education: Recovering Silenced Heritage through the 3D Virtual Model of Portomarín*	**ICT**
11:30-11:45		**Vittoria Gelati** RED – Düsseldorf Conservation Center	**Germany**	English	*Saving Media Art in museum collections from loss: a conservator perspective*	**Museology**
12:00-14:30		Lunch				
14:30-16:00		Video Session				
19:30		Cocktail Gala				

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Video section-Day 3-29 April 2026

Time	Location	Presenter and Affiliation	Country	Presentation Lamguage	Title of Presentation	Research Area
14:30-14:45	Istituto per L'arte e il Restauro Palazzo Spinelli **-Room 20**	**Diana Inês de Castro Mendes** Landscape, Heritage and Territory Laboratory, University of Minho, Braga, Portugal	**Portugal**	English	*Rural Heritage in the Digital Age: The Vila Verde Project*	**Architecture**
14:45-15:00		**Olena Remizova, Iryna Kudriashova, Anna Martynenko** Educational and Scientific Institute of Architecture, Urban Planning and Design in O.M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	*Tradition as a Source of Modernism's Heritage: Preserving the Regional Principles of the Language of Modernist Architecture in the Mediterranean*	
15:00-15:15		**Yurii Sosnytskyi, Natalina Borodchenko** O. M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	*Lighting-as-Conservation for Heritage Interiors A Risk-Based Framework for Exposure Control and Authentic Visual Experience: A risk-based protocol for dose budgeting, zoning, and adaptive control*	
15:15-15:30		**Yurii Sosnytskyi, Alexander Shilo, Olena Olenina, Volodymyr Kasyanov** O. M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	*Digital Preservation and Representation of Kharkiv's Architectural and Artistic Heritage as a Resource for the City's Cultural Identity During Wartime*	
15:30-15:45		**Oksana Demydiuk, Mykhaylo Averbakh** O. M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	*RING-SHAPED FORM IN ARCHITECTURE: SCALE AND SCALENESS*	
15:45-16:00		**Ikrame Selkani** CESINE International Business School Santander, Spain American Institute of Applied Sciences, Switzerland	**Spain**	English	*Rabat: Between world heritage and urban management.*	
16:00-16:15		**Mykyta Shevchenko, Hanna Kononenko** O. M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	*Gentrification as a negative consequence of industrial zone rehabilitation*	
14:30-14:45	Istituto per L'arte e il Restauro Palazzo Spinelli **-Room Magna**	**Roy J. Ingraffia** National Director of Industry Development, International Masonry Institute Director of Architectural Conservation, Weitzman School of Design, University of Pennsylvania **Vittorio Paris** University of Bergamo	**USA**	English	PRESERVATION-AR: Exploring the Use of Augmented Reality as a Tool for Masonry Preservation Projects	**ICT & AI**
14:45-15:00		**Luca Andrea Ludovico, Marta Idini, Mael Vittorio Vena, Greta Mazzaggio** Università degli Studi di Milano	**Italy**	English	Dialects in Italian Cinema as Intangible Cultural Heritage: A Geo-Referenced Platform and Annotation Model Compliant with FAIR Principles	
15:00-15:15		**Kateryna Chechelnytska, Serhii Chechelnytskyi** O. M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	Digital Twin for Genius Loci Actualization and Urban Recovery in Ukraine	
15:15-15:30		**Filipe Oliveira, Diana Mendes** Institute of Education, University of Minho	**Portugal**	English	*Thinking Historically About Cultural Heritage Through Technologies: Portuguese Students' Ideas About Historical Evidence*	**Education For Cultural Heritage**
15:30-15:45		**Francesco Pinna** Università degli studi di Cagliari - Dipartimento di Ingegneria Civile, Ambientale e Architettura	**Italy**	English	*Stability assessment of Nuragic towers using Ultrasonic Pulse Velocity*	**Architecture**
15:45-16:00		**Hanna Kononenko, Iryna Snitko** Kherson State Agrarian and Economic University O.M. Beketov National University of Urban Economiy **in Kharkiv**	**Ukraine**	English	*Overcoming Methodological Fragmentation in Adaptive Reuse Projects of Industrial Heritage*	
16:00-16:15		**Larysa Martyshova** O. M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	*The Polysemantic nature of the Architectural Ensemble of Derzhprom in the Urban Structure of Kharkiv city*	
14:30-14:45	Istituto per L'arte e il Restauro Palazzo Spinelli **-Room Riunioni**	**Yıldız ÇAKMAK** Department of Conservation and Restoration of Artworks, Mimar Sinan Fine Arts University, Istanbul, Turkey	**Turky**	English	*Detection of metal salts in oil paintings by Infrared and Raman Spectroscopy*	**Diagnostic & Monitoring**
14:45-15:00		**Firaz Kazimagomedov, Hanna Kononenko, Tetiana Ryshchenko, Luidmyla Kornilova** O. M. Beketov National University of Urban Economy in Kharkiv	**Ukraine**	English	*Sustainable Lighting Interventions in Historic Buildings Architectural Approaches to Aesthetic and Economic Optimization of Lighting Systems*	
15:00-15:15		**Marina Djurić** Institute of Physics Belgrade Artforensics, Belgrade	**Serbia**	English	Differentiation of ancient blue pigments based on three-band NIR composite images	
15:15-15:30		**Virginia Flores-Sasso** University Paris-Est Créteil	**France**	English	*Analyzing a historic passive ventilation system in a 1940s Caribbean house*	
15:30-15:45		**Anna Klisińska-Kopacz** National Museum in Krakow	**Poland**	English	Materials and Techniques of Witold Wojtkiewicz: A Multimodal Non-Invasive Study of Three Paintings from the National Museum in Krakow	**Material Science**
15:45-16:00		**Micol Mazzoli** Sapienza University of Rome	**Italy**	English	Reflections on the role of plaster cast galleries between past and present: the case of the Museum of Classical Art at Sapienza University of Rome	

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Day 4-30April 2026

Time	Location	Conference Schedule				
10:00-11:20	Florence city	Historic Center Walking Tour				
11:30-11:40	Istituto per L'arte e il Restauro Palazzo Spinelli Via Maggio, 13, 50125 Firenze FI	Thematic Sessions Opening: ICT & AI · Material Science **Dr. Andrea Barucci** **"Nello Carrara" Institute of Applied Physics (IFAC) of the National Research Council of Italy (CNR), Florence**				
		Presenter and Affiliation	Country	Presentation Lamguage	Title of Presentation	Research Area
11:40-11:55	Collabaration Speaker	**Li Yang** ArtTrust Art Conservation Co., Ltd.	**China**	English	*Platformization Practice and International Collaboration: Current Status, Localization Exploration and Cooperation Vision of Oil Painting Cultural Heritage Conservation in China*	**Material Science + AI & ICT**
11:55-12:05		**Debora Giovannelli** "Nello Carrara" Institute of Applied Physics (IFAC) of the National Research Council of Italy (CNR), Florence	**Italy**	English	*Deep Learning for Ichnology: Vision Transformers for Unsupervised Analysis of Invertebrate Ichnofossils and Preliminary Application to Dinosaur Track Discrimination*	
12:05-12:20		**Maria Messineo** University of Florence	**Italy**	English	*DeepLearning for Ancient Text and Artifact Analysis*	
12:20-12:40		Coffe Break-20 minutes				
12:40-12:55		**Giulia Bosio** Department of Earth Sciences, University of Pisa	**Italy**	English	*Unveiling the Past: High-Resolution Micro-CT Imaging as a Non-Invasive Gateway to Paleoenvironmental and Paleoanthropological Reconstruction*	**Material Science + AI & ICT**
12:55-13:15		**Michela Amendola** - CIAS – Centro de Investigação em Antropologia e Saúde/Research Centre for Anthropology and Health, Department of Life Sciences, University of Coimbra, Portugal - CFE - Centre for Functional Ecology, Forensic Anthropology and Paleobiology Group, Department of Life Sciences, University of Coimbra, Portugal	**Italy**	English	*Bones Under the Lens: AI and Geometric Morphometrics for Sex Estimation and Asymmetry Assessment in Adult Iliac Auricular Surfaces*	
13:15-13:30		**Matteo Belvedere** Department of Earth Sciences, University of Florence **Carolina S. Marques** Center for Statistics and its Applications of the University of Lisbon (CEAUL)	**Italy** **Portugal**	English	*Machine learning methods for dinosaur tracks: integrating different ichnological data*	
13:30		Closing Ceremony				