



International Workshop **HERITAGEBOT 2017** 21-22 September 2017: Cassino, Italy



PROGRAM

Aula Magna at 1st floor of the School of Engineering in Via Di Biasio 43 Cassino.

Day 1: Thursday 21 September 2017

- 9.00 - 12:00 Registration
- 9.30 - 11:00 Opening act and presentation of Heritagebot project

Speech by:

Prof. Giovanni Betta, *Rector University of Cassino*

Prof. Giuseppe Recinto, *Head of Department Economics and Law, University of Cassino;*

Prof. Marco Ceccarelli & Prof. Michela Cigola, *HeritageBot Workshop Chairs*

Presentation of the Heritagebot Project by PI prof. M. Ceccarelli

- 11:00 - 11:20 coffee break
- 11:20 - 13:00 session: *History of Technology*
- 13:00 - 14:30 lunch at Restaurant 'Da Mario'
- 14:30 - 18:30 visit of the Abbey of Montecassino
- 20:00 - 23:00 dinner at Restaurant 'Bellavista' in Atina

Day 2: Friday 22 September 2017

- 9:20 - 11:00 session: *History and Dissemination of Cultural Heritage*
- 11:00 - 11:20 coffee break
- 11:20 - 13:00 session: *Systems for Cultural Heritage*
- 13:00 - 14:30 lunch at Restaurant 'Da Mario'
- 14:30 - 16:30 session: *Documentation and Survey of Cultural Heritage*
- 16:30 - 16:50 coffee break
- 16:50 - 18:30 session: *New Proposals for Cultural Heritage*
- 18:30 - 19:00 closing act
- 20:00 - 23:00 conference/gala dinner at Restaurant 'Da Titina' in Cassino

Marco Ceccarelli and Michela Cigola (Co-Chairs)



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Day 1: Thursday 21 September 2017

11:20 - 13:00 session: *History of Technology*

Chairs: Yibing Fang (INHS) and Emanuela Chiavoni (Sapienza University of Rome)

<i>On the History of the Theory of Plough</i>	Vera Chinenova
<i>The plumb board in the missing panel: a new key for understanding the renaissance symbolism in the Gubbio studiolo</i>	Pier Gabriele Molari, Vincenzo Ambrogi
<i>Designing and Prototyping Reconstruction of Musician Automata</i>	Yu-Hsun Chen, Marco Ceccarelli, Hong-Sen Yan
<i>A Comparison between Ancient Chinese and European Winnowers: with Additional Studies on the Ancients' Recognition and Application of the Centrifugal Principle</i>	Huang Xing
<i>A Study on the Early Chinese Steel Rails heritage of Hanyehping company, China</i>	Yibing Fang, Lifang Lei, Zhiqiang Luo

Day 2: Friday 22 September 2017

9:20 - 11:00 session: *History and Dissemination of Cultural Heritage*

Chairs: Alberto Sdegno (Trieste University) and Arturo Gallozzi (Cassino University)

<i>Ordinary and not so ordinary theaters in Buenos Aires at the beginning of 20th Century. A study after Jose Maria Calaza's book Teatros. Su construcción, sus incendios y su seguridad</i>	Eduardo Gentile
<i>Architectures and fortified settlement systems of Ager Nolanus. The Avella's Norman Castle.</i>	Riccardo Florio, Teresa Della Corte, Angela Colucci
<i>Knowledge and classification for the interactive dissemination of Chorizo Houses in Argentina</i>	Fabiana Carbonari, Emanuela Chiavoni
<i>Augmented reality for Cultural Heritage. An application in the archaeological area of Tusculum</i>	Saverio D'Auria, Fabrizio De Silla, Rodolfo Maria Strollo
<i>New steps of social learning</i>	Alberto Rovetta

11:20 - 13:00 session: *Systems for Cultural Heritage*

Chairs: Thomas Chondros (Patras University) and Giuseppe Carbone (Cassino University)

<i>Prototype and Testing of Heritagebot Platform for Service in Cultural Heritage</i>	Marco Ceccarelli, Daniele Cafolla, Matteo Russo, Giuseppe Carbone
<i>The HeritageBot project. Putting Robotics into Survey.</i>	Michela Cigola, Arturo Gallozzi, Luca J. Senatore, Roberto Di Maccio
<i>Photogrammetry and Multispectral Imaging for Conservation Documentation – Tools for Heritage Specialists</i>	Andres Uueni, Fabrizio Ivan Apollonio, Hilkka Hiiop
<i>A rotating info-stele for cultural heritage sites</i>	Stephan Buerger, Dimitra Katsota, Eugenios Fainekos, Thomas Chondros
<i>A Searching Robot for Cultural Heritage Tasks</i>	Giuseppe Carbone, Fernando Gomez-Bravo



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14:30 - 16:30 session: *Documentation and Survey of Cultural Heritage*

Chairs: Alfonso Ippolito (Sapienza University of Rome) and Michela Cigola (Cassino University)

<i>Quality or Quantity: the role of representation in Archaeological Architecture</i>	Carlo Bianchini, Michael Hess, Carlo Inglese, Alfonso Ippolito
<i>Digital Technologies for the documentation, analysis, and dissemination of the Etruscan 'Stele di Vicchio'</i>	Barbara Aterini, Alessandro Nocentini, Gregory Warden
<i>Reloading Le Corbusier's Architectures with new Technology for Advanced Visualization of Cultural Heritage</i>	Alberto Sdegno, Pedro Manuel Cabezos Bernal, Silvia Masserano, Paola Cochelli, Roberto Ranon
<i>Sedile Dominova in Sorrento: survey and analysis of a complex architecture</i>	Raffaele Catuogno, Francesca Porfiri, Gaia Lisa Tacchi
<i>Web spherical panorama for Cultural Heritage 3D modeling</i>	Leonardo Paris, Michele Calvano, Carla Nardinocchi
<i>Colorimetric study on optical data from 3D laser scanner prototype for Cultural Heritage applications</i>	Sofia Ceccarelli, Massimiliano Guarneri, Roberta Fantoni, Lucina Giacopini, Alessandro Danielis, Mario Ferri De Collibus, Massimiliano Ciaffi, Giorgio Fornetti, Massimo Francucci

16:50 - 18:30 session: *New Proposals for Cultural Heritage*

Chairs: Massimiliano Guarneri (ENEA) and Francesco Ferrante (University of Cassino)

<i>MUS.AQ: A Digital Museum of L'Aquila for the Smart City INCIPICT Project</i>	Stefano Brusaporci, Mario Centofanti, Pamela Maiezza
<i>The valorization of the Cultural Heritage. Technology transfer through entrepreneurial discovery</i>	Francesco Ferrante
<i>A framework for a Smart cultural city</i>	Marco Gaiani, Berta Martini, Fabrizio Ivan Apollonio
<i>A framework for developing citizen science activities: designing strategies and tools for public engagement in a research project</i>	Nello Augusto Colella, Francesco Bolici
<i>Heritage by Project Dynamic Museums Project with New Artificial Intelligence Suggestions</i>	Alberto Rovetta, Edoardo Roviada, Giulio Zafferri