Carmine Gambardella WORLD HERITAGE and CONTAMINATION Le Vie dei Mercanti XVIII International Forum

Editing: Alessandro Ciambrone

(C)

Proprietà letteraria riservata Gangemi Editore spa Via Giulia 142, Roma www.gangemieditore.it

Nessuna parte di questa pubblicazione può essere memorizzata, fotocopiata o comunque riprodotta senza le dovute autorizzazioni.

Le nostre edizioni sono disponibili in Italia e all'estero anche in versione ebook. Our publications, both as books and ebooks, are available in Italy and abroad.

ISBN 978-88-492-3936-2

ARCHITECTURE HERITAGE and DESIGN | 5 Series founded and directed by Carmine Gambardella

ARCHITECTURE HERITAGE and DESIGN | 5

Series founded and directed by Carmine Gambardella

Scientific Committee:

Carmine Gambardella

UNESCO Chair on Landscape, Cultural Heritage and Territorial Governance President and CEO of Benecon

Federico Casalegno

Professor, Massachusetts Institute of Technology, Boston

Alessandro Ciambrone

Ph.D., UNESCO and FULBRIGHT former fellow

Massimo Giovannini

Professor, Università "Mediterranea", Reggio Calabria

Bernard Haumont

Professor, Ecole Nationale Supérieure d'Architecture, Paris-Val de Seine

Danila Jacazzi

Professor, University of Campania "Luigi Vanvitelli"

Alaattin Kanoglu

Professor, Department of Architecture, İstanbul Technical University

David Listokin

Professor, Director of the Center for Urban Policy Research of Rutgers University / Edward J. Bloustein School of Planning and Public Policy, USA

Sabina Martusciello

President of the Degree Course in "Design and Communication", University of Studies of Campania "Luigi Vanvitelli"

Paola Sartorio

Executive Director, The U.S.A. - Italy Fulbright Commission

Elena Shlienkova

Professor, Samara State Technical University

Rosaria Parente

Ph.D. in "Architecture, Industrial Design and Cultural Heritage" University of Studies of Campania "Luigi Vanvitelli"

Nicola Pisacane

Professor, Head of the Master School of Architecture – Interior Design and for Autonomy Courses, University of Studies of Campania "Luigi Vanvitelli"

Riccardo Serraglio

Professor, University of Campania "Luigi Vanvitelli"

Editorial Committee:

Lucina Abate Alessandro Ciambrone Gilda Emanuele Rosaria Parente

Carmine Gambardella

WORLD HERITAGE and CONTAMINATION Culture, Creativity, Contamination

Le Vie dei Mercanti _ XVIII International Forum



Topics:

Heritage

Tangible and intangible dimensions

History

Culture

Collective Identity

Memory

Documentation

Management

Communication for Cultural Heritage

Architecture

Surveying

Representation

Modelling

Data Integration

Technology Platforms

Analysis

Diagnosis and Monitoring Techniques

Conservation

Restoration

Protection

Safety

Resilience

Transformation Projects

Technologies

Materials

Cultural landscapes

Territorial Surveying

Landscape Projects

Environmental Monitoring

Government of the Territory

Sustainable Development

WORLD HERITAGE and CONTAMINATION

Le Vie dei Mercanti XVIII International Forum

Naples | Capri 11 - 12 - 13 June 2020

President of the Forum

Carmine Gambardella

President and CEO Benecon, UNESCO Chair on Cultural Heritage, Landscape and Territorial Governance

International Scientific Committee

Aygul Agir,

Professor, Department of Architecture, Istanbul Technical University, Turkey

Ahmed Abu Al Haija,

Professor and Head, Environmental Design, Urban and Architectural Heritage, Faculty of Engineering, Philadelphia University, Jordan

Ali Abu Ghanimeh,

Vice president Al al-Bayt University Almafraq – Jordan

Pilar Garcia Almirall,

Professor, UPC Ecole Tecnica Superior d'Arquitectura Barcelona, Spain

Harun Batirbaygil,

Head, Department of Architecture, Okan University, Istanbul, Turkey

Artur Beu.

Professor, University of Art, Tirana, Albania

Cevza Candan,

Professor, İstanbul Technical University, Turkey

Orazio Carpenzano,

Professor and Director of the Department of Architecture and Design, Sapienza University

Maurizio Carta,

Professor, University of Palermo

Alessandro Ciambrone.

Benecon University Consortium, UNESCO and Fulbright Former Fellow, Italy

Annamaria Colao.

Professor, UNESCO Chair on Education to Health and Sustainable Development

Joaquín Díaz,

Professor and Dean, Technische Hochschule Mittelhessen-University of Applied Sciences, Department of Architecture and Civil Engineering, Germany

Yurdanur Dulgeroglu,

Professor and Head of the Department of Architecture, İstanbul Technical University, Turkey

Yonca Erkan.

Chairholder UNESCO Chair, Kadir Has University, Turkey

Kutgun Eyupgiller.

Professor, Department of Architecture, Istanbul Technical University, Turkey

Giuseppe Faella,

Professor, University of Campania "Luigi Vanvitelli"

Yankel Fijalkow.

Professor, Ecole Nationale Supérieure d'Architecture Paris Val de Seine, France

Cherubino Gambardella.

Professor, University of Campania "Luigi Vanvitelli"

Stefania Gigli Quilici,

Professor, Università della Campania "Luigi Vanvitelli"

Xavier Greffe.

Professor and Director, Centre d'Economie de la Sorbonne Paris, France

Manuel Roberto Guido.

Italian Ministry of Heritage and Culture, Italy

Bernard Haumont.

Professor, Ecole Nationale Supérieure d'Architecture Paris Val de Seine, France

Pedro António Janeiro.

Professor, Faculdade de Arquitectura da Universidade de Lisboa

Tatiana Kirova,

Professor, Polytechnic of Turin

Alaattin Kanoglu,

Professor, İstanbul Technical University

Ilknur Kolay,

Professor, Department of Architecture, Istanbul Technical University

Antonio Lampis,

Director Museums, Italian Ministry for Cultural Activities

David Listokin.

Professor, Edward J. Bloustein School of Planning and Public Policy, Rutgers University, USA

Andrea Maligari,

Professor and Rector of the Polytechnic University of Tirana, Albania

Sabina Martusciello.

Design and Communication Degree Course (President) University of Campania "Luigi Vanvitelli", Italy

Massimo Menenti,

Department of Geoscience and Remote Sensing, Faculty of Civil Engineering Delft University of Technology, The Netherlands

Rusudan Mirzikashvili,

Ministry of Cultural Heritage, Georgia

Doe Morelli,

Professor, University of Campania "Luigi Vanvitelli", Italy

Louise Mozingo,

Chair, Landscape Architecture and Environmental Planning, University California Berkeley, USA

Maria Dolores Munoz.

Professor, UNESCO Chair, EULA Environmental Centre, University of Conception, Chile

Florian Nepravishta,

Dean of the Faculty of Architecture and Urbanism, Polytechnic University of Tirana, Albania

Luis Palmero Iglesias,

Politècnica de València UPV, Spain

Jorge Peña Díaz,

Professor, Facultad de Arquitectura, Instituto Superior Politécnico José Antonio Echeverría, Cuba

Rosaria Parente.

Ph.D. in "Architecture, Industrial Design and Heritage" at the University of Campania

Rosario Pivonello,

Professor, University of Naples "Federico II"

Mosè Ricci.

Professor, University of Trento

Daniele Riccio.

Professor, University of Naples "Federico II"

Paola Sartorio.

Executive Director, The U.S.- Italy Fulbright Commission

Lucio Alberto Savoia,

Ambassador, Secretary General Emeritus, Italian National Commission for UNESCO, Italy

Maria Anita Stefanelli,

Department of foreign lenguagers, literature and Culture, Università degli studi RomaTRE, Italy

Elena Shlienkova.

Professor of Architecture and Construction Institute of Samara State Technical University, Russia

Eusebio Leal Spengler.

Professor, Historiador de la Ciudad de La Habana, Presidente de Honor del Comité Cubano del ICOMOS. Cuba

Ana Luiza Thompson-Flores,

Director of the UNESCO Regional Bureau for Science and Culture in Europe, Venice (Italy)

Isabel Tort.

Professor, Universitat Politècnica de València UPV, Spain

Marco Trifuoggi,

Professor, University of Naples "Federico II"

Andrey V. Vasilyev,

Head of Department, Samara State Technical University of Russian Federation

Leandro Ventura,

Director of the Central Institute For Ethno-anthropology, Italian Ministry for Cultural Activity

Yaliang Xiang,

Professor, China Academy of Art, China

Yang XiuJing,

Professor and Director, China Academy of Art, China

Organizing Committee

Alessandro Ciambrone, Coordinator of the scientific program and relationships with the International Scientific Committee

Rosaria Parente, Scientific Assistant of the International Committee President

Luciana Abate, Gilda Emanuele, Vincenzo Ferraro Graphics and layout

Dario Martimucci, Web master

Peer review

Scholars has been invited to submit researches on theoretical and methodological aspects related to Smart Design, Planning and Technologies, and show realapplications and experiences carried out on this themes.Based on blind peer review, abstracts has been accepted, conditionally accepted, or rejected. Authors of accepted and conditionally accepted papershas been invited to submit full papers. These has beenagain peer-reviewed and selected for the oral session and publication, or only for the publication in the conference proceedings.

Conference report

300 abstracts and 650 authors from 44 countries:

Albania, Arizona, Australia, Benin, Belgium, Bosnia and Herzegovina, Brasil, Bulgaria, California, Chile, China, Cipro, Cuba, Egypt, France, Germany, Georgia, Greece, India, Italy, Japan, Jordan, Kosovo, Lebanon, Malaysia, Malta, Massachusetts, Michigan, Montenegro, Montserrat, New Jersey, New York, New Zealand, Poland, Portugal, Russian Federation, Serbia, Slovakia, Spain, Switzerland, Texas, Tunisia, Turkey, United Kingdom.