

## INDEX

### STRATEGIC ISSUES

"Interactive Image Reconstruction from its Incomplete, Irregular and Imprecise Fragments"	Bahar Taşkesen A G Constantinides	p. 26
"At the Intersection of Art, Architecture and Archaeology: 3D Virtualization and Contemporary Heritage"	Herbert D. G. Maschner Victor Manuel Lòpez-Menchero Bendicho Miguel Ángel Hervás Herrera Jeffrey Du Vernay Aurelia Lureau James Bart McLeod	p. 34
"Is three better than two? A study on EEG activity and imagination abilities in 2D vs 3D stimuli"	Claudio Lucchiari Maria Elide Vanutelli Raffaella Folgieri	p. 41
"A Scientific Method for the Attribution of Paintings with application to Leonardo's Mona Lisa twins"	J. F. Asmus Vadim Parfenov	p. 48
"Use of Multimedia and Virtual Reality Technologies to Represent Russian Cultural Heritage"	Nikolay Borisov Artem Smolin Vera Slobodyanuk	p. 56

## **NEW SCIENCE AND CULTURE DEVELOPMENTS & APPLICATIONS**

" <i>Homo Technologicus</i> comes of Age: An Ongoing Evolution"	Giuseppe O. Longo	p. 60
"Cognitive stages in rational thinking - toward human technology"	Mika Laakkonen	p. 61
"A new Compact VNIR Hyperspectral Imaging System for Non-Invasive Analysis in the FineArt and Architecture Fields"	M. Picollo A. Casini C. Cucci J. Jussila M. Poggesi L. Stefani	p. 69
"The place of inspiration of the Flemish Triptych by Rogier van der Weyden. A contribution of the <i>landscape busting</i> to one of the <i>vexata quaestio</i> of the Sicilian history"	R. Franco	p. 75
"The Cultural Heritage of tomorrow: should we put a limit to the influence that new technologies have on culture and design?"	Gianpiero Alfarano Erika Lascialfari	p. 81
"The use of the intelligent cutting guide PERSEUS during Total Knee Replacement"	Lawrence Camarda Antonio D'Arienzo Michele D'Arienzo	p. 87

## **NEW TECHNICAL DEVELOPMENTS & APPLICATIONS**

"Latest Innovation on Capturing Historical Photographic Ethereogenous Material: The Alinari Experience"	Andrea De Polo Saibanti	p. 90
"International Standardization of FTV"	Masayuki Tanimoto	p. 92
"4D Ray-Space and Ultra-Wide Area FTV"	Masayuki Tanimoto Hirokuni Kurokawa	p. 100
"Digital innovation & Technological explosion <i>The New Challenges of the Security Management</i> "	Franco Guidi Giancarlo Caroti	p. 108
"New Trends of 3D Technologies and Copyright Protection"	Vito Cappellini Francesca Uccheddu	p. 114

## **CULTURAL ACTIVITIES – REAL AND VIRTUAL GALLERIES AND RELATED INITIATIVES**

"Museo Nazionale del Bargello"	Ilaria Ciseri	p. 118
"Resisting a Total Loss of Digital Heritage Web 2.0 – Archiving & Bridging Thesaurus for Media Art Histories"	Oliver Grau	p. 119
"The extraordinary role of the imaging techniques in the conservation and valorization of Cultural Heritage"	Mauro Matteini	p. 127

"Technology and theatrical tradition in art exhibitions: "Earlier Mona Lisa" in Shanghai"	Jean Paul Carradori Qing Li	p. 130
"Renaissance Experience: Florence and Uffizi"	Marco Cappellini Paolo De Rocco Paolo Romoli	p. 134
"Smarticon: A Digital Eco-System for Cultural Heritage. Iconographic Convergences in Art and in World Religious"	Sara Penco	p. 135
"Some Reflections & Questions on Emerging Forms of Digital Photo-Libraries"	James R. Hemsley	p. 143
"Contemporary Art Creation and Exhibitions"	Paola Imposimato	p. 146

## **ACCESS TO THE CULTURE INFORMATION**

"Creative perception, decoding of hidden images, contextualisation and interactive learning process"	Jeanette Zwingenberger	p. 148
"Instant Architecture: Hosted Access to the Archivision Research Library with Built-In Image Management & Presentation Tools"	Maureen Burns Andreas Knab	p. 150
"Maximizing Metadata: Embedded Metadata Tools"	Marcia Focht	p. 158

"Il Piccolo Masaccio e le Terre Nuove. Creativity and Computer Graphics for Museum Edutainment"	Valentina Zucchi Antonella Guidazzoli Giovanni Bellavia Daniele De Luca Maria Chiara Liguori Francesca Delli Ponti Federica Farroni Beatrice Chiavarini	p. 166
"Canals, Cities, Museums, Libraries & Photography: A Reconnaissance Study of Regent's Canal, London"	Graham Diprose Christina Hemsley James R. Hemsley	p. 173
"3D Visualization: Revealing Imagery Space by Technological Parameter"	Nina Sosna	p. 181
"A Techno Social Collaborative Platform to Manage Optimize and CrowdFund Cultural Heritage Initiatives"	F. Spadoni F. Tariffi R. Rossi S. Lusso	p. 187