

When the Artifact Becomes Image: Representing Geometrical Query with Tangible Tools. Catalogues Physical Models at the Turn of 1900

Original

When the Artifact Becomes Image: Representing Geometrical Query with Tangible Tools. Catalogues Physical Models at the Turn of 1900 / Cumino, C., Pavignano, M., Zich, U.. - ELETTRONICO. - (2021), pp. 140-140. (III CONVEGNO INTERNAZIONALE E INTERDISCIPLINARE SU IMMAGINI E IMMAGINAZIONE 3rd INTERNATIONAL AND INTERDISCIPLINARY CONFERENCE ON IMAGES AND IMAGINATION IMG2021 Milano (online) 25-26 novembre 2021).

Availability:

This version is available at: 11583/2953892 since: 2022-01-28T10:04:05Z

Publisher:

Publica

Published

DOI:

Terms of use:

This article is made available under terms and conditions as specified in the corresponding bibliographic description in the repository

Publisher copyright

(Article begins on next page)

III CONVEGNO INTERNAZIONALE E INTERDISCIPLINARE
SU IMMAGINI E IMMAGINAZIONE
3rd INTERNATIONAL AND INTERDISCIPLINARY CONFERENCE
ON IMAGES AND IMAGINATION

IMG2021



IMG2021

3rd INTERNATIONAL AND INTERDISCIPLINARY CONFERENCE
ON IMAGES AND IMAGINATION

IMAGE LEARNING

PUBLICA



 **IMAGE
LEARNING**

PUBLICA ISBN 978-88-99586-21-8

IMG2021
IMAGE LEARNING
book of abstracts

edited by/a cura di:
Daniele Villa
Franca Zuccoli
Alessandra De Nicola
Virginia Vecchi

© PUBLICA, Alghero, 2021
ISBN 978-88-99586-21-8
Pubblicazione Ottobre 2021

Stampa Grafiche Abi2ue, Sesto San Giovanni, Milano

WWW.PUBLICAPRESS.IT

Organizzato da / organized by:



POLITECNICO
MILANO 1863

DIPARTIMENTO DI ARCHITETTURA
E STUDI URBANI
DEPARTMENT OF ARCHITECTURE
AND URBAN STUDIES



DIPARTIMENTO DI
SCIENZE UMANE PER LA FORMAZIONE
"RICCARDO MASSA"

con il patrocinio di / under the patronage of:



**III CONVEGNO INTERNAZIONALE E INTERDISCIPLINARE
SU IMMAGINI E IMMAGINAZIONE**

**3rd INTERNATIONAL AND INTERDISCIPLINARY CONFERENCE
ON IMAGES AND IMAGINATION**

IMG2021

III CONVEGNO INTERNAZIONALE E INTERDISCIPLINARE SU IMMAGINI E IMMAGINAZIONE
3rd INTERNATIONAL AND INTERDISCIPLINARY CONFERENCE
ON IMAGES AND IMAGINATION

IMG2021



**IMAGE
LEARNING**

book of abstracts



SCIENTIFIC COMMITTEE
COMITATO SCIENTIFICO

Giovanni Anceschi
Fabrizio Apollonio
Demis Basso
Paolo Belardi
András Benedek
Emma Beseghi
Stefano Brusaporci
Giorgio Camuffo
Camilla Casonato
Eugene Ch'ng
Pilar Chias Navarro
Enrico Cicalò
Alessandra Cirafici
Franco Clivio
Marco Dallari
Manuel de Miguel
Agostino de Rosa
Antonella Di Luggo
Edoardo Dotto
Maria Linda Falcidieno
Roberto Farnè
Francesca Fatta
Franz Fischnaller
Marco Gaiani
Vittorio Gallese
Fabrizio Gay
Andrea Giordano
Claudia Giudici

Nicole Goetschi Danesi
Nicolás Gutierrez
Robert Harland
Richard Huerta
Elena Ippoliti
Pedro António Janeiro
Massimiliano Lo Turco
Alessandro Luigini
Francesco Maggio
Stuart Medley
Valeria Menchetelli
Raffaele Milani
Matteo Moretti
Chiara Panciroli
Andrea Pinotti
Paola Puma
Fabio Quici
Margarida Ramos
Michael Renne
Pier Cesare Rivoltella
Daniele Rossi
Pier Giuseppe Rossi
Rossella Salerno
Maurizio Unali
Tomaso Vecchi
Carlo Vinti
Ornella Zerlenga



ORGANIZING COMMITTEE
COMITATO DI PROGRAMMA

Lorenzo Ceccon
Maria Elena Ciucci
Alessandra De Nicola
Emanuela Mancino
Stefano Moriggi
Alessandro Pepe
Annamaria Poli
Daniele Villa
Virginia Vecchi
Marco Vedoà
Franca Zuccoli

INDICE



IMAGE LEARNING

PAPERS ARTICOLI

| | | |
|-------|---|----|
| ID001 | IRIS NENTWIG-GESEMANN The Imaginary and Imatative in Children's Drawings. Interpretative Approaches with the Documentary Method | 30 |
| ID002 | EDNA BARROMI-PERLMAN Images of Emancipation. Analysis of Photographs of Jewish Italians after the Liberation of the Roman ghetto in 1870 | 31 |
| ID004 | SOFIA MENCONERO Image processing for knowledge and comparison of Piranesi's Carceri editions | 32 |
| ID006 | ALESSANDRO PEPE Using Image-Based Research Methods in vulnerable populations as a culturally sensitive approach: ethical and methodological aspects | 33 |
| ID007 | SANDRA MIKOLAJEWSKA Video mapping for Cultural Heritage: state of the art and future developments | 34 |
| ID008 | MARINELLA ARENA Learning from the city: an emotional journey | 35 |
| ID010 | GRETA ATTADEMO Narrative space in videogames | 36 |
| ID011 | GIULIA CORDIN IS THE FUTURE OF EXHIBITIONS IN DIGITAL STORYTELLING? Curatorship in the age of internet and the rise of the amateur curator | 37 |
| ID012 | ADRIANA TREMATERRA The Restoration Drawing by Images: The Dominican Monastery of the Holy Cross in Croatia | 38 |

| | | |
|-------|--|----|
| ID014 | PAOLO BELARDI IT IS YOUR TOWN: KNOW HOW TO PROTECT IT The comic writing of Yona Friedman | 39 |
| ID016 | LAURA MUCCIOLLO Settled / Nomadic: The Disappearance of the Project and the Invention of the Image. Two Projects by amid.cero9 | 40 |
| ID017 | ANTONELLA TIBURZI The use of photographs in the teaching of the Shoah. A critical guide | 41 |
| ID018 | FEDERICO O. OPPEDISANO The "First Step" of Images The Tangible Illusion of Stop-Motion Animation | 42 |
| ID019 | GENNARO PIO LENTO Drone survey of the Monastery of Panagia Kosmosoteira | 43 |
| ID020 | GIANLUCA CAMILLINI Imitate, Cite, Contextualise. Approaches and the use of history in the teaching of graphic design | 44 |
| ID021 | ELISABETTA CATERINA GIOVANNINI, MASSIMILIANO LO TURCO, ANDREA TOMALINI BACK TO THE PAST. Narrative and storytelling learning in a digital modeling reconstruction process | 45 |
| ID022 | VALERIA MENCHETELLI Images Save Life. The Role of Graphic Communication in Social Health Education | 46 |
| ID023 | ULRIKE STADLER-ALTMANN Pictorial & Spatial Image Learning – Using diamond ranking to understand students' perception of learning environment | 47 |
| ID024 | LORENZO GIORDANO Image: necessity and truth. The narrative medium in Valerio Olgiati | 48 |
| ID025 | BARBARA PIGA, MARCO BOFFI, GABRIELE STANCATO, NICOLA RAINISIO, GIULIO FACCENDA Emotional and Cognitive Maps for Urban Design Education: a human-centered design learning approach | 49 |

| | | |
|-------|--|----|
| ID026 | BARBARA E. A. PIGA, NICOLA RAINISIO, MARCO BOFFI, SILVIA CACCIAMATTA, GIULIO FACCENDA, GABRIELE STANCATO The effectiveness of digital visualization tools to enhance co-design activities in urban planning | 50 |
| ID027 | ANTONELLA POCE, MARIA ROSARIA RE, MARA VALENTE, CARLO DE MEDIO, ALESSANDRA NORGINI Narrating the museum: developing Critical Thinking skills through a collaborative Storytelling experience | 51 |
| ID028 | ANTONELLA CONTIN, VALENTINA GALIULO Unveiling Beauty through Maps Affective image determination for spatial learning through Metropolitan Cartography Maps | 52 |
| ID029 | ALEXANDRA COSIMA BUDABIN Interventions for Dissonant Heritage in Bolzano | 53 |
| ID030 | LUCA GALOFARO L'immagine fotografica nel lavoro di Josef Albers. La fotografia come strumento didattico e interpretativo | 54 |
| ID031 | STARLIGHT VATTANO The woman in the propaganda posters. Categories and graphic structures | 55 |
| ID032 | CLAIRE SALLES Vulva Moulding. Contact Image as a Feminist Practice Producing Knowledge | 56 |
| ID033 | ARIANNA PAPALE Representation and environmental damage The case of Edward Burtynsky | 57 |
| ID034 | SUSANNE SCHUMACHER On the habitus of students - Reconstruction of explicit self-concept and incorporated norms in mental images of the future profession | 58 |
| ID035 | MARIA GRAZIA BERLANGIERI, VINCENZO MASELLI Hackcity - Hackbodies Images and narratives of cyborg architectures in Japanese anime and urban utopias | 59 |
| ID036 | ELENA CARATTI, CAMILLA PILOTTO From the verbal to the visual. An example of intersemiotic translation of Calvino's Invisible Cities | 60 |

| | | |
|-------|--|----|
| ID037 | GIUDITTA CIRNIGLIARO, ANGELICA FEDERICI Digital Spaces and Digital Places: Recovering Ancient Traditions with Contemporary Forms in Rome | 61 |
| ID038 | ROBERTO GIGLIOTTI, NINA BASSOLI Displaying displays. Contemporary architecture exhibitions and their production of images | 62 |
| ID040 | ROSSELLA SALERNO Re-Imagining Spaces and Places. Spatial imaginary methods: the creative process and iconographic circulation | 63 |
| ID041 | MICHELA BENENTE, CRISTINA BOIDO, MELANIA SEMERARO Virtual representation to narration Roman Turin. Interactive didactic paths from the city to the museum | 64 |
| ID042 | RAISSA D'UFFIZI Visualizing the Italian way of life: Italian design products through the pages of Domus, 1955-1975 | 65 |
| ID043 | MICHELE VALENTINO, ENRICO CICALÒ, MARTA PILERI Stick Images. Learning by drawing lines with objects | 66 |
| ID044 | MARTINO MOCCHI, CARLOTTA SILLANO, LORENA ROCCA Sound beyond the hedge. Towards an acoustic construction of images | 67 |
| ID046 | ALESSIO CACCAMO, IDA CORTONI Infodemic, Visual Disinformation and Data Literacy. How to Foster Critical Thinking Through the Emerging Dataficacy Competence | 68 |
| ID047 | FEDERICA CODIGNOLA Image variables of collectible design: Art, luxury, and country-of-origin effect | 69 |
| ID048 | CRISTINA COCCIMIGLIO The repression of techno-aesthetic creativity | 70 |
| ID049 | ELISABETTA VILLANO Black Space, White Space. Transdisciplinary Reflections for a Pedagogy of the Void | 71 |
| ID050 | PATRIZIA GARISTA Drawing as a reflective practice in life-long learning | 72 |

| | | |
|-------|--|----|
| ID051 | ROB EAGLE Augmented reality as a Thirdspace: Simultaneous experience of the physical and virtual | 73 |
| ID052 | GIULIA PETTOELLO Animalizing: Immagination to enhance italian towns | 74 |
| ID053 | ANDREA LUPACCHINI Architectural Imaging Design | 75 |
| ID054 | E. RATTALINO, M.M. MORETTI, S. SCHMIDT-WULFFEN Learning from scientific visualisations: knowledge exchanges between science, design and art | 76 |
| ID055 | VINCENZO MOSCHETTI Sylva as Anima Mundi Animals, maps and outposts as project-related tools in the work of Luis Buñuel | 77 |
| ID056 | M.L. BELISARIO, B. DI DONATO, M. GILLI, E. MANCINO INSIDE and OUTSIDE SCHEMES. STEREOTYPES and CREATIVITY IN CHILDRENS' IMAGES | 78 |
| ID057 | ISABELLA FRISO, GABRIELLA LIVA Museum in Absentia The Staging of the Image | 79 |
| ID058 | STEFANO BRUSAPORCI 'Ἐστία' or Notes on Architectural Heritage Imaging | 80 |
| ID059 | AUROSALISA ALISON From visual studies to interactive design: What about digital aesthetics? | 81 |
| ID060 | CINZIA ZADRA, SIMONA BARTOLI KUCHER Graphic journalism: Multi-perspective and intersubjective visions Seeing, thinking and recognising the other | 82 |
| ID061 | VINCENZO CIRILLO, VALENTINA ALFIERI, IGOR TODISCO From Art image to video/comic-image learning. The video spot Stay at home | 83 |
| ID062 | PAMELA MAIEZZA, FABIO FRANCHI, ALESSANDRA TATA, FABIO GRAZIOSI What Images Say / What Users See. Exploring Mobile Augmented Reality for Visual History-Telling of Architectural Heritage | 84 |

| | | |
|-------|--|----|
| ID063 | ENRICO CICALÒ What Images Say / What Users See. Learning by drawing. Learning to drawing | 85 |
| ID064 | CHIARA ROSTAGNO, CHRISTIAN AMIGONI, EZIO BOLZACCINI The breath of the Leonardo's Last Supper. Climate change effects on the "natural temperament" of the painted wall | 86 |
| ID065 | ANNA CHIARA CIMOLI All Things Sacred. An Experience in Diversity and Active Citizenship at a Contemporary Art Museum | 87 |
| ID066 | NICOLETTA FERRI A video-performance as a (professional) mirror. The use of composition in a performative research with Primary School teachers | 88 |
| ID067 | ENRICA LOVAGLIO COSTELLO Reimagining Cognitive Visualizations: Designers' Leading Edge & Innovative Power | 89 |
| ID068 | JUNA CARLOS CASTRO-DOMINGUEZ, CARLOS BARBERÁ PASTOR, ALEXANDRA RODES GÓMEZ Victimsville. Or how Hedjuk landed in Berlin 2030 | 90 |
| ID069 | NICOL ELLECOSTA, DEMIS BASSO Knowledge and appreciation of manga comics in an Italian sample | 91 |
| ID070 | ELIANA BILLI. ALESSANDRA MARIA GENOVESE, STEFANO SDOIA From mutilated to complete image. Lacunae in paintings through the eyes of restorers, art historians and ordinary viewers | 92 |
| ID071 | LETIZIA BOLLINI Knowledge Atlases. Spatial visualisations as (inclusive) learning tools | 93 |
| ID072 | MARCO VEDOÀ Grasping the Fragility Aspects through Spatial Inequalities mapping. The Case of the Alpine Areas in Lombardy, Italy | 94 |
| ID073 | SONIA MOLLICA, ANDREA MARRAFFA Bauhaus-room: design at the service of new didactic applications | 95 |
| ID074 | ADELAIDE TREMORI, MARCO RICCIARINI Illustration and architecture | 96 |

| | | |
|-------|--|-----|
| ID076 | DEMIS BASSO, YURI BORGIANNI The design of product's packaging: different perception from different perspectives | 97 |
| ID077 | MASSIMILIANO CIAMMAICHELLA This Person Does Not Exist. Representation Theories and Practices of a Desired Face | 98 |
| ID078 | STEFANO BOTTA, DANIELE CALISI Using virtual reality as a tool to research, analyze and learn: the competition for Palazzo del Littorio in Rome | 99 |
| ID080 | AGOSTINO URSO, FRANCESCO DE LORENZO The power of the image in the comics culture. Two examples applied to architectural themes | 100 |
| ID081 | FABIANA GUERRIERO Images of property market analysis in a GIS environment. The exploration of a Unesco site | 101 |
| ID082 | GIUSEPPE CAPRIOTTI, ROSITA DELUIGI Educating spaces and hybrid images. Learning strategies in school buildings on the Kenyan coast | 102 |
| ID083 | LUCA CARDANI, FABRIZIO BANFI Thinking and Design Through Analogical Image Knowledge, Visual Simulation and Modeling Learning: the Uncanny Space of the Hall | 103 |
| ID085 | ANDRÉS LUPIÁÑEZ, IÑIGO UGALDE-BLÁZQUEZ La Casa de los Toros de Barcelona When architecture, photography and cultural life are synthesized in a work of art | 104 |
| ID086 | RAFAEL SUMOZAS, MARIA CACIQUE Decay buildings and their impact on urban regeneration through art: a case study in Taiwan | 105 |
| ID087 | MARCELLO SCALZO Hervé Morvan, artist and poet of the "optique de la rue" | 106 |
| ID089 | GIORGIA POTESTÀ, VINCENZO GELSOMINO Archaeological documentation from Drone. The theatre of Locri Epizefiri | 107 |
| ID090 | MARÍA EUGENIA GARCÍA-SOTTILE, SEBASTIÁN GÓMEZ-LOZANO, ALESSANDRA DE NICOLA Image and Choreography. Transmitting to replicate, transferring to create | 108 |

| | | |
|-------|--|-----|
| ID094 | MARGHERITA CICALA, NICOLA CHIACCHIO The new frontier of images NFTs. The digitalization of the image in the art world | 109 |
| ID095 | LETIZIA BOLLINI, MARIA POMPEIANA IAROSI Educational power of images. Visual narrativity and iconicity in scientific dissemination | 110 |
| ID096 | FEDERICA MAIETTI, ANDREA ZATTINI Learning by representing. Architectural drawing between visual simulations and graphic abstractions | 111 |
| ID097 | FLAURA AIELLO The image of sacred space in Desiderius Lenz's drawings The aesthetics of the rule | 112 |
| ID099 | MAURIZIO PERTICARINI, VALERIA MARZOCHELLA, ALESSANDRO BASSO Lidar Sensor for the Enhancement of the Architectural Heritage | 113 |
| ID100 | DAVIDE CARLEO, MARTINA GARGIULO, GIOVANNI CIAMPI, LUIGI CORNIELLO, MICHELANGELO SCORPIO, PILAR CHÍAS Survey and lighting retrofit as instrument of knowledge and valorisation: the Casa de Vacas | 114 |
| ID101 | FRANCESCA BASSI, RITA BONFANTI, ALESSANDRA DE NICOLA, FRANCA ZUCCOLI A partire dalla O di Giotto | 115 |
| ID102 | VALERIO MARIA SORGINI, GRETA MARIA TARONNA That (interrupted) refined ludus Imagination and architecture in the reality of fragments | 116 |
| ID103 | FABIO LUCE, GIOVANNA A. MASSARI, CRISTINA PELLEGGATTA Verbal Space and Visual Space between Reality and Imagination | 117 |
| ID104 | MATTEO MORETTI Design for graphicacy: the case of Glocal Climate Change | 118 |
| ID105 | ISABELLA SCURSATONE, MARIA EUGENIA GARCIA SOTTILE The development of images in Mass Choreography. From manual notation to computerised notation | 119 |
| ID106 | MARIO BOTTINELLI MONTANDON, CRISTIANA CANONICA MANZ Image as a vehicle of cultural expression between education and society. Experiencing an artistic-visual workshop for young adults between upper secondary education and university of teacher education in teaching at primary level in Italian-speaking Switzerland | 120 |

| | | |
|-------|---|-----|
| ID107 | ORNELLA ZERLENGA, LUCIANO LAUDA Drawing COVID-19. The viral image | 121 |
| ID108 | MARÍA-ISABEL MORENO-MONTORO, ALICIA MARTÍNEZ-HERRERA, ESTRELLA SOTO-MORENO From head to toe: an “exquisite” hopscotch as learning and research through drawing | 122 |
| ID111 | JOSÉ CARRASCO HORTAL, SARA PRIETO GARCÍA-CAÑEDO, JOSÉ A. SÁNCHEZ FAJARDO Interpretive Communities: When collaborative writing meets metaphor- based object design | 123 |
| ID112 | PAOLA RAFFA Images in motion: perceptive codes for shared space | 124 |
| ID114 | DEMIS BASSO, GIOVANNI LECCI, ALESSANDRO EFREM COLOMBI Students’ eyes like reality-based sceneries in e-learning | 125 |
| ID115 | MANUELA PISCITELLI The image of touristic Italy in the magazines of the late 19th and early 20th century | 126 |
| ID116 | MARTA QUINTILLA CASTÁN 3D GIS Information System for the inventory of the Mudejar heritage in Aragon. Architecture and territory | 127 |
| ID117 | CORRADO CASTAGNARO The image of the contemporary city, a critical reflection on the spaces we live in | 128 |
| ID120 | DOMENICO CRISPINO Historical views: images for comprehension of the modern garden | 129 |
| ID121 | BEATRICE STEFANINI, ALESSANDRA VEZZI, MARTA ZERBINI Holographic representation tools and technologies for new learning actions: DhoMus Project applied to Pitigliano and Vetulonia Museums, Tuscany | 130 |
| ID122 | SILVIA PUTEO, EZIO GIOVANNI BOLZACCHINI, CHIARA ROSTAGNO The Micromega’s eye. Image analysis in our cultural heritage and the challenges of global change | 131 |
| ID123 | MARTA ZERBINI The graphic representation of data in architectural scientific research. The definition of visual elements | 132 |

| | | |
|-------|---|-----|
| ID124 | DALIA GALLICO @Re-Art Archive Experience. Innovation and beauty | 133 |
| ID125 | SILVIA BALZAN, SUSANNE KÄSER, ALYIN TSCHOEPE Icono-Ethnography as Methodology. Connecting visual communication and ethnography in participatory urban planning processes | 134 |
| ID126 | MICHELA PACE Housing narratives. Stories of distortion, promotion and originality linked to the marketing of heritage | 135 |
| ID129 | FRANCESCO BERGAMO The Observer's Distance Scopic regimes in the Age of Intelligent Machines | 136 |
| ID130 | LUCA ROSSATO, MARTINA SUPPA A course of architectural documentation through the clouds. The challenge of teaching survey techniques during the pandemic emergency | 137 |
| ID132 | PATRICIA MÉNDEZ, JESSICA FUENTEALBA QUILODRÁN, MATÍAS RAMÍREZ BRAVO, CONSUELO EMHARDT Insights of images within the Chilean student architecture press, 1930-1990 | 138 |
| ID133 | MONICA GUERRA, LOLA OTTOLINI Participatory actions in virtual spaces. The role of images in the construction of shared spaces | 139 |
| ID134 | CATERINA CUMINO, MARTINO PAVIGNANO, URSULA ZICH When the Artifact Becomes Image: Representing Geometrical Query with Tangible Tools. Catalogues Physical Models at the Turn of 1900 | 140 |
| ID138 | FRANCESCA RONCO, GIULIA BERTOLA New narrative and graphic tools in museums. Experiments of motion graphic technique applied to Japanese illustrations of Museo d'Arte Orientale (MAO) of Turin | 141 |
| ID139 | DONATELLA FANTOZZI Street Art: from impertinent transgression to inclusive citizenship | 142 |
| ID140 | CAMILLA CASONATO Picture books as a source for mind mapping. An experience in secondary schools | 143 |

| | | |
|-------|--|-----|
| ID141 | LUISA CHIMENZ Style, taste, trend. Perceptions, statements and misunderstandings in design theoretical discourse | 144 |
| ID142 | RITA CAPURRO Photography and Representation of the Museum Visit Experience. Getting to Know Museum Audiences through the Photographic Image | 145 |
| ID143 | FRANCESCO MAGGIO Drawing Modernity | 146 |
| ID145 | IRENE CAZZARO Learning from patterns: information retrieval and visualisation issues between bioimage informatics and digital humanities | 147 |
| ID147 | FABRIZIO AVELLA, STEFANIA AGNELLO The Mathematical Table of the Palazzina Cinese in Palermo. Animation and virtual reality techniques for an edutainment project | 148 |
| ID148 | ALESSIO BORTOT Unusual rainbow. Images and projections between art and science | 149 |
| ID149 | MARIAPAOLA VOZZOLA Images as communication of a new normality. The representation of the new social habits introduced by the Covid19 emergency in public spaces | 150 |
| ID150 | MICHAEL RENNER Drawing Labs – from the Copy of the Master to the Inquiry into the Design Process | 151 |
| ID152 | LUIGI CORNIELLO Processes and tools for understanding the survey image | 152 |
| ID153 | ELISABETTA BIFFI, LUCIA CARRIERA, FRANCA ZUCCOLI ABR Training for Educational Research: The Global Classroom project | 153 |
| ID155 | RICCARDO AMENDOLA, MONICA BATTISTONI, CAMILLA SORIGNANI ARCHITECTURE BEYOND IMAGES The storytelling in the collages of Fala Atelier | 154 |
| ID157 | ALESSANDRA DE NICOLA Silent poetry. The images of gesture among the arts. Pretexts and reflections on a language with great educational potential | 155 |

| | | |
|-------|--|-----|
| ID158 | ALICE PALMIERI Coloured patterns: designing urban spaces through chromatic abstractions | 156 |
| ID160 | FAUSTO BREVI, FLORA GAETANI The role of images in the dematerialisation of design presentations during pandemics | 157 |
| ID162 | PEDRO JOSÉ ZARZOSO LÓPEZ Read or watch | 158 |
| ID163 | GIOVANNA RAMACCINI THE "ALLEGORICAL FACADE" Between temporary set-up and collective well-being during health emergency | 159 |
| ID165 | ELEONORA FARINA, LETIZIA DELLA ZOPPA Future teachers' implicit ideas on creativity: visual stimuli for idea-generation activities | 160 |
| ID166 | GIAN MARCO GIRGENTI, ELEONORA MANCUSO Image Education and Didactics of Cultural Heritage. Graphic and creative workshops within the project "La scuola adotta la città" | 161 |
| ID167 | NATHALIE KERSCHEN Emphatic Designs: Reclaiming Imagination in Architectural 'Thinking' | 162 |
| ID168 | ALESSANDRO CASTELLANO Real digital world(s). Indizi di realtà nell'esplorazione virtuale di spazi reali | 163 |
| ID169 | NICOLETTA SORRENTINO 1964 - 2020, From Tokyo to Tokyo. Heritage and actuality of pictographic communication | 164 |
| ID170 | ANITA MACAUDA, VERONICA RUSSO Image education and visual digital storytelling | 165 |
| ID173 | CHIARA PANCIROLI, LAURA CORAZZA OPEN Communication of Science: the role of audiovisual language in the digital museums | 166 |
| ID175 | VINCENZA GAROFALO, EMANUELE ROMANELLI, CHIARA VASTA Animated representations. Multimedia techniques for storytelling | 167 |

| | | |
|-------|---|-----|
| ID177 | CEDRIC KAYSER Narratives of glitch: towards a new understanding of the imaginal | 168 |
| ID179 | MAURIZIO UNALI, GIOVANNI CAFFIO Semantic Model Learning Cultural hybridizations and aesthetic recycling for architecture and design | 169 |
| ID180 | JUDIT ONSÈS The power of images to imagine and create worlds yet-to-come | 170 |
| ID182 | ALESSANDRA MESCHINI Poliphony of Gazes in an Emergency. What Images relate and How. The Tangible and Intangible Elements of Suspended Time | 171 |
| ID183 | STEFANO MORIGGI "Infuturarsi". Imagination and argumentative competence in digitally augmented learning contexts. Notes and reflections on a didactic experience | 172 |
| ID184 | ALESSANDRA AGRESTINI, MATTEO COLLEONI, ANDREA MANGIATORDI, STEFANO MALATESTA, GIAMPAOLO NUVOLATI, ENRICO SQUARCINA, FRANCA ZUCCOLI From mental maps to art: a project on the University-Bicocca sense of place | 173 |
| ID185 | FABIANO MICOCCI The Collages of Athens. The Representation of the City in the 21th Century | 174 |
| ID192 | DANIELE ROSSI Pittronica Towards an Archaeology of the Electronic Image on Italian Television | 175 |

When the Artifact Becomes Image: Representing Geometrical Query with Tangible Tools. Catalogues Physical Models at the Turn of 1900

Abstract

Traditionally, communication in mathematics passes through symbolic representations and visual ones, whether they are images, models or other artifacts, both in the theoretical speculation phase and in the transmission of knowledge with educational and disseminative aims. This dichotomy of representations has its roots in the epistemology of the discipline. In the European context, during the second half of the 19th century, a set of Catalogues of models for the study of geometry born. The contribution analyses their structures based on visual operations of a mathematical nature, with an indisputable aesthetic content, realized following the developments of mathematics at that time and the foundational studies by Monge, which explicitly identified the educational use of models for the geometry of surfaces. Catalogues are therefore tools for the promotion of visual artifacts of great impact, designed for the materialization of complex mathematical queries. Therefore, we propose a critical analysis of the images used in such Catalogues, of the modalities of model interpretation and of the possible repercussions in the current context of interdisciplinary studies.

Keywords

representation, geometry, algebraic surfaces, didactic, models