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KONICA MINOLTA

XVII CdC - CONFERENZA DEL COLORE

12-13 September 2022

Istituto di Fisica Applicata "Nello Carrara" del Consiglio Nazionale delle Ricerche IFAC-CNR

**IN COLLABORAZIONE CON
IN COLLABORATION WITH**

Associação Portuguesa da Cor (PT)
Centre Français de la Couleur (FR)
Colour Group (GB)
Forum Farge (NO)
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**CON IL PATROCINIO DI
WITH THE PATRONAGE OF**

Associazione Italiana di Archeometria – AIAR
Associazione Italiana di Illuminazione – AIDI
Gruppo Italiano International Institute for Conservation – IGIC
International Colour Association – AIC
Società Italiana di Design – SID
Società Italiana di Ottica e Fotonica – SIOF

PROGRAMMA / PROGRAM

12 September 2022

SESSIONE PLENARIA 1 / PLENARY SESSION 1 (AULA TORALDO)

Chairs: Andrea Siniscalco / Marcello Picollo

Online moderators: Albana Muco / Gianluca Guarini

8:30 Registrazione partecipanti - Avvio collegamento / Attendee registration - Connection initiation

9:30 - 9:45 Benvenuto - Welcome greetings

- Marcello Picollo, President of GdC - Associazione Italiana Colore
- Andrea Siniscalco, Vice-president of GdC - Associazione Italiana Colore

09:45 Invited Lecture: *On different approaches to Environmental Colour Design*. **Verena M. Schindler**

10:30 Invited Lecture: *Color = Shape = Space: Sol LeWitt's Wall Drawing #736 "Rectangles of color"*. **Renata Pintus**

11:15 - 11:30 **Coffee break**

11:30 Invited Lecture: *Chromatism in architecture: problems of representation*. **Emanuela Chiavoni**

12:15 - 13:00 Premio/Award Colore 2022 GdC - Associazione Italiana Colore.

Invited Lecture: Premio Colore 2022: **Grazia Varisco**

13:00 - 14:00 **Break**

TEMI DI INTERESSE

1. **Colore e misura/strumentazione.** Colorimetria, fotometria e atlante dei colori: metodo, teoria e strumentazione; controllo qualità e coloranti alimentari, tinture, colore biologico e sostenibile.
2. **Colore e digitale.** Riproduzione, gestione, correzione digitale del colore, elaborazione delle immagini, grafica, fotografia, produzione di film e video, stampa e stampa 3D, visione artificiale, realtà virtuale, imaging multispettrale, visualizzazione dei dati. Imaging del campo luminoso. Fusione multi-sensore. Localizzazione del colore, riconoscimento, imaging HDR, sistemi ADAS.
3. **Colore e illuminazione.** Metamerismo, resa cromatica, adattamento, costanza cromatica, apparenza, illusioni, memoria e percezione del colore, colore in ambienti extra-atmosferici, lighting design, tecnologia dell'illuminazione, comfort visivo.
4. **Colore e fisiologia.** Meccanismi della visione nei loro aspetti sperimentali e teorici, visione e apparenza del colore, deficit, anomalie, aspetti clinici e biologici, sinestesia, salute, benessere.
5. **Colore e psicologia.** Fenomenologia dei colori, armonie cromatiche, colore e forma, aspetti percettivi, emotivi, estetici e diagnostici.
6. **Colore e produzione.** Alimenti e bevande, agricoltura, tessile, materie plastiche, ceramica, vernici, gemmologia, colore nell'industria alimentare.
7. **Colore e restauro.** Archeometria, materiali pittorici, diagnostica e tecniche di conservazione, restauro e valorizzazione dei beni culturali.
8. **Colore e ambiente.** Rappresentazione e disegno, urbanistica, progetto del colore, architettura, design degli interni, paesaggi e orticoltura, colore e sintassi architettonica, identità territoriali, biodiversità.
9. **Colore e design.** Arredo, CMF design, moda, tessuti, texture, cosmetici, food design, museografia.
10. **Colore e cultura.** Arts and Crafts, storia, filosofia, estetica, etnoantropologia, graffiti, geologia, sociologia, lessicologia, semantica, antropologia della visione, patrimonio e cultura del cibo, denominazione dei colori.
11. **Colore e educazione.** Pedagogia, didattica del colore, educazione estetica, educazione artistica.
12. **Colore e Comunicazione/Marketing.** Grafica, comunicazione, packaging, lettering, visibilità, pubblicità.
13. **SESSIONE SPECIALE: Colore per la bellezza, cosmetica e acconciatura.** La bellezza è un argomento ampio studiato nell'ambito dell'estetica, della cultura, della psicologia sociale e della sociologia. La scienza e tecnologia cosmetica mirano alla bellezza ed è sono parte fondamentale nella nostra società.

TOPIC OF INTERES

1. **Color and Measurement/Instrumentation.** Colorimetry, photometry and color atlas: method, theory and instrumentation; quality control and food coloring, dyes, organic and sustainable color.
2. **Color and Digital.** Reproduction, management, digital color correction, image processing, graphics, photography, film and video production, printmaking and 3D print, artificial vision, virtual reality, multispectral imaging, data visualization. Light field imaging. Multi-sensor fusion. Color localization, recognition, HDR imaging, ADAS systems.
3. **Color and Lighting.** Metamerism, color rendering, adaptation, color constancy, appearance, illusions, color memory and perception, color in extra-atmospheric environments, lighting design, lighting technologies, visual comfort.
4. **Color and Physiology.** Mechanisms of vision in their experimental and theoretical aspects, color vision and color appearance, deficiencies, abnormalities, clinical and biological aspects, synesthesia, health, well-being.
5. **Color and Psychology.** Phenomenology of colors, color harmonies, color & form, perceptive, emotional, aesthetic and diagnostic aspects.
6. **Color and Production.** Food and beverages, agriculture, textiles, plastic materials, ceramics, paints, gemology, color in the food industry.
7. **Color and Restoration.** Archaeometry, painting materials, diagnostics and techniques of conservation, restoration and enhancement of cultural heritage.
8. **Color and Environment.** Representation and drawing, urban planning, project of color, architecture, interior design, landscapes & horticulture, color and architectural syntax, territorial identities, biodiversity.
9. **Color and Design.** Furniture, CMF design, fashion, textiles, textures, cosmetics, food design, museography.
10. **Color and Culture.** Arts and crafts, history, philosophy, aesthetics, ethno-anthropology, graffiti, geology, sociology, lexicology, semantics, anthropology of vision, food culture and heritage, color naming.
11. **Color and Education.** Pedagogy, didactics of color, aesthetic education, artistic education.
12. **Color and Communication/Marketing.** Graphics, communication, packaging, lettering, exposure, advertising.
13. **SPECIAL SESSION: Color for beauty, cosmetic and hairstyle.** Beauty is a wide topic studied as part of aesthetics, culture, social psychology and sociology. Cosmetic science and technology aim at beauty and is a key part in our society.

SESSIONE ORALE 2 (ITA)

Temi di interesse: 1, 7, 8, 10, 11, 12

(AULA TORALDO)

14:00 Paper n° 13

Filippo Cherubini, Andrea Casini, Costanza Cucci, Marcello Piccolo, Lorenzo Stefani and Maurizio De Vita

Applicazione di camera iperspettrale per misure spettroscopiche e colorimetriche su superfici policrome in esterno con luce naturale

14:15 Paper n° 86

Giovanna Pnarese, René Bozzella

La salvaguardia della testimonianza documentale, l'evoluzione delle tecniche di coloritura e la modellazione del cavo urbano nel trattamento delle facciate sull'antica via Magistrale in Benevento.

14:30 Paper n° 9

Thomas Bisiani

Architettura, il colore della grande dimensione tra ritmo e paesaggio.

14:45 Paper n° 84

Rossella Menegazzo

I colori del Giappone: gradazioni, accostamenti, sovrapposizioni.

15:00 Paper n° 6

Andrea Maffia, Liliana Silva and Alessandro Rizzi

Problemi aperti relativi all'uso dei colori nella didattica della matematica.

15:15 Paper n° 74

Marcello Scalzo

I manifesti di Leonetto Cappiello e Jean d'Ylen: il colore diventa protagonista.

15:30 Paper n° 27 (short presentation)

Giorgia De Toni, Elena Pedrotti and Sotirios Papadopoulos

IL COLORE DEL VASTU – Progettazione di un appartamento in India

ORAL SESSION 3 (ENG)

Topic of interest: 8

(AULA FERMI)

14:00 Paper n° 10

Vittoria Umani

Colors in Architecture: matter and communication tool

14:15 Paper n° 41

Luca Martelli, Laura Carnevali and Fabio Lanfranchi

Eidomatic experimentations on the alteration of spatial perception using colours

14:30 Paper n° 49

Ana Sutlovic, Martinia Glogar and Vedrana Gašpić

Felting wool dyed with natural dyes

14:45 Paper n° 56

Margarida Gamito and Fernando Moreira da Silva

UrbanCroma, Chromatic Methodology, the results of a post-Doctoral research

15:00 Paper n° 65

Siren Elise Wilhelmsen

Plants out of place? A design-driven investigation of colour and material possibilities within a group of "invasive alien plant species" in a Norwegian context

15:15 Paper n° 66

Kine Angelo and Alex Booker

Colour Composition and Visual Tectonics in Facades; Adapting Colour Teaching to Current Architectural Practice

15:30 Paper n° 77

Mette L'Orange and Bent Erik X Myrvoll

The Face of Molde High Street

15.45 - 16.05 Coffee break

ORAL SESSION 4 (ENG)

Topic of interest: 1, 4

(AULA TORALDO)

16:05 Paper n° 48

Marijana Tkalec, Martinia Glogar and Ana Sutlovic
Simultaneous contrast in screen printed patterns

16:20 Paper n° 76

Lucia Natali, Alessandro Farini, Elisabetta Baldanzi and John Barbur

Color discrimination with filter lenses assessed through the use of the CAD test: a preliminary study

16:35 Paper n° 11

Reiner Eschbach, Alice Plutino, Luca Armellin and Alessandro Rizzi

The gray side of Ishihara bubbles

16:50 Paper n° 25

Luca Armellin, Alice Plutino and Alessandro Rizzi
Online games for colour deficiency data collection

17:05 Paper n° 37

Marisa Rodriguez-Carmona, Qais Bastaki and John L Barbur
Loss of colour and flicker sensitivity in subjects at risk of developing diabetes

17:20 Paper n° 50

Emily Patterson, Angelos Kalitzeos, Thomas Kane, Navjit Singh, Mark Pennesi, Alison Hardcastle, Jay Neitz, Maureen Neitz, Michel Michaelides and Joseph Carroll

Foveal cone structure in patients with blue cone monochromacy

17:35 Paper n° 58

John Barbur, Benjamin Evans, Marisa Rodriguez-Carmona, Elisabetta Baldanzi, Alessandro Farini, Alessia Fava and Regina Comparetto

Changes in the 'conspicuity' of coloured objects caused by coloured lenses and / or pre-receptor filters in the eye

17:50 Paper n° 75

Benjamin Evans, Gordon Plant and John Barbur
The value of colour in clinical diagnostic dilemmas

ORAL SESSION 5 (ENG)

Topic of interest: 3, 7, 10, 11

(AULA FERMI)

16:05 Paper n° 83

Costanza Vittoria Fiorini, Francesca Merli, Elisa Belloni, Buratti Cinzia, Ann M. Anderson and Mary K. Carroll

Colorimetric analysis and color rendering performance of a small-scale glazing system with thin monolithic aerogel in the interspace.

16:20 Paper n° 46

Alice Pertica, Andrea Casini, Costanza Cucci, Marcello Picollo, Lorenzo Stefani and Muriel Vervat

Colorimetric and spectroscopic analysis of a 19th-century impressionist painting with reflectance hyperspectral imaging.

16:35 Paper n° 68

Eva Mariasole Angelin and Marisa Pamplona

Colors in computer heritage: investigation of "Graphite" and "Indigo" Apple iBooks from the Deutsches Museum

16:50 Paper n° 19

Ollier Xaviere

Serial architecture and geopoetic of the territory, indexed color at the service of enhancing a vernacular heritage.

17:05 Paper n° 85

Albana Muco

Compound words with colour terms in Albanian

17:20 Paper n° 8

Anna Piotti

When a student asks: Was ist Black auf Deutsch?

13 September 2022

SPECIAL ONLINE SESSION 6 (ENG)

Color for beauty, cosmetic and hairstyle

(AULA TORALDO)

ONLINE ORAL SESSION 7 (ENG)

Topic of interest: 4, 7, 9

(AULA FERMI)

09:00 Paper n° 4

Helene De Clermont-Gallerande

Mineral pigments in make-up products: classification, formulation, and sensorial properties

09:15 Paper n° 17

Simone Liberini, Roberta Suardi, Alessandro Rizzi and Giannantonio Negretti

Assessment of base color influence on the chromatic appearance of hair colorants

09:30 Paper n° 44

Sumin Park, Boram Kim, Hyun Choi, Moonha Kim and Hyeon-Jeong Suk

Hair-dye experience at home using a customer journey map

09:45 Paper n° 45

Boram Kim, Juhyun Lee, Sungmi Park and Hyeon-Jeong Suk

The method and analysis of color changes of facial skin after a skin makeup

10:00 Paper n° 57

Daniele Fusari and Michele Scisci

Course of Color Technician in the Cosmetic Industry

09:00 Paper n° 20

Kazim Hilmi Or

Can "blue blocking" eye glasses be clinically really effective?

09:15 Paper n° 42

Julian Rennie and Dr Alessandro Premier

A piece of New Zealand Heritage: Colour Design and Conservation of Grey Lynn Library

09:30 Paper n° 64

Leticia Díaz-Mata, Miquel Àngel Herrero-Cortell and M. Antonia Zalbidea-Muñoz

Velature sotto la lente d'ingrandimento: osservazione di pigmenti storici mediante microscopia superficiale

09:45 Paper n° 73

Maurizio Aceto, Angelo Agostino, François Pacha-Miran and Maria Labate

Between West and East: a non-invasive study of colourants on Syriac manuscripts

10:00 Paper n° 55

Lia Sossini, Romina Santi and Barbara Del Curto

The colours of sustainability: how materials cmf design can guide sustainable perceptions and behaviours

SHORT SESSION 8 (ENG)

Topic of interest: 7, 10

(AULA TORALDO)

10:20 Paper n° 29

Luca Scappin

Armonizzare il nuovo con l'antico": toni chiari e toni scuri sulle superfici lapidee di restauro a Venezia

10:25 Paper n° 30

Luca Scappin

La riproduzione su intonaco del paramento lapideo: variazioni e tecniche tra monocromie e pentacromie

10:30 Paper n° 31

Luca Scappin

Trattamenti policromi su pietra tra Medioevo e Rinascimento: una componente, quasi, perduta dell'immagine di Venezia

10:35 Paper n° 22

Marcello Di Gregorio and Martin Bellander

Quantifying colors in culture: color trends in Italy (1960 to 2020) through album covers

10:40 Paper n° 78

Annie-Dominique Denhez

Colours and Daguerrotypes : how to forget colours ? « La couleur y est traduite avec tant de vérité qu'on oublie son absence. »

SHORT SESSION 9 (ENG)

Topic of interest: 4, 8,12

(AULA FERMI)

10:20 Paper n° 47

Megan Vaughan, Nicole Tay, Angelos Kalitzeos, Thomas Kane, Nav Singh, Adrian Zheng, Bishwanath Pal, Ranjan Rajendram, Konstantinos Balaskas, Pilar Martin-Gutierrez, Jose Artiaga, Hanan Nussinovitch, Khadra Adnan, Marisa Rodriguez-Carmona, John Barbur, Michel Michaelides and Emily Patterson

Subclinical changes detected in diabetes mellitus using high resolution retinal imaging and colour vision assessment

10:25 Paper n° 72

Andrea Siniscalco, Alessandro Bortolotti and Maurizio Rossi

Do colour and light affect physiology and psychology in proportional ways

10:30 Paper n° 12

Dongqing Zhang, Eletta Naldi and Linding Liu

Exploring the colors used in renovation of interior space: a survey on post-use of higher educational classrooms

10:35 Paper n° 79

Mette Bye

Colours of a Northern city in past and present - tradition and current practices of facade colour in the historical architecture of Trondheim, Norway

10:40 Paper n° 2

Alessandro Bortolotti, Loreta Cannito, Stefano Anzani and Riccardo Palumbo

The psychological association between product's color and consumer's color preference in marketing

10.45 - 11.05 Coffee break

SESSIONE ORALE ONLINE 10 (ITA)

Temi di interesse: 7, 9, 11, 12

(AULA TORALDO)

11:05 Paper n° 63

Aranzazu Llácer-Peiró, Miquel Àngel Herrero-Cortell, M. Antonia Zalbidea-Muñoz and Laura Fuster-López
Trasparenze naturali. Velature storiche prodotte con pigmenti-lacca e coloranti organici

11:20 Paper n° 70

Raffaella Trocchianesi
Allestimenti immersivi: quando la sinergia tra suono e colore contribuisce a potenziare l'esperienza di visita

11:35 Paper n° 69

Berta Martini, Monica Tombolato and Paola Pedrini
Verso un modello di progettazione didattica STEM/STEAM al confine tra Didattica generale e disciplinare

11:50 Paper n° 16

Anna Marotta
Colore per una fortezza dalla guerra alla Pace

12:05 Paper n° 34

Maria Martone and Laura Carnevali
Gli effetti 3D nella cartografia di Leonardo da Vinci. Dal chiaroscuro al colore

12:20 Paper n° 61 (online short presentation)

Greta Attademo
Luce e colore come elementi narrativi nei Cultural Games

ONLINE ORAL SESSION 11 (ENG)

Topic of interest: 1, 3, 10

(AULA FERMI)

11:05 Paper n° 39

Laura Bellia, Francesca Fragliasso, Claudia Graiff, Mariagioia Petratretti, Antonino Pollio and Marianna Potenza
Evaluation of chromatic alterations due to Ag-functionalized nanocrystalline cellulose on Whatman and Amalfi paper

11:20 Paper n° 21

Kazim Hilmi Or
A possible new method for Forensic Document examination: Plasmonic colors

11:35 Paper n° 32

Birgit Schulz
Twilight | Spatial Experiments

11:50 Paper n° 1

Larissa Noury
Colour Harmony in Design and Architecture: theory, practice, education.

12:05 Paper n° 3

Kévin Bideaux
The "Pink Mask Affair": Why did Italian police refuse to wear pink FFP2 masks?

12:05 Paper n° 5

Hannah Matangos
Grey Zones: On Photography & Progress

12:20 Paper n° 7

Nicholas Lourantos
Reversal film transparencies and their colours: examining the medium of an era

13.00 - 14.00 Break

ORAL SESSION 12 (ENG)

Topic of interest: 9, 12

(AULA TORALDO)

ONLINE SHORT SESSION 14 (ENG)

Topic of interest: 2, 3, 4, 6, 8, 9, 10, 12

(AULA TORALDO)

14:00 Paper n° 24

Claudio Germak and Stefano Gabbatore

Fly in color. A chromatic "model" for the cabin of a commercial aircraft.

14:15 Paper n° 28

Cristina Caramelo Gomes and Margarida Gamito

Chromatic identity of the urban tile panels: the scenario of Lisbon subway stations.

14:30 Paper n° 51

Agata Kwiatkowska-Lubańska

Research on Colour in Industrial Design: Brief History, Overview of Methods and Stories of Successful Products

14:45 Paper n° 67

Valentina Cognini and Federica Vacca

Chromatic Vocabulary: the colour design research according to Gianfranco Ferré

15:00 Paper n° 80

Alessandro Spennato

Emotional Color Design

15:15 Paper n° 40

Jada Schumacher

Go Somewhere Glossies: Experiential Color in Magazine Design

15:30 - 15:50 Coffee break

ONLINE ORAL SESSION 13 (ENG)

Topic of interest: 11

(AULA TORALDO)

15:50 Paper n° 43

Rui Pessoa Vaz de Figueiredo Vasques, António José Macedo Coutinho da Cruz Rodrigues and Diamantino Abreu

A New Paradigm for the Definition and Universe of Static Colors and Dynamic Colors

16:05 Paper n° 71

Alessandra De Nicola and Franca Zuccoli

Il colore, un alleato delle sezioni educative museali. Un viaggio tra casi, tecniche e approcci.

16:20 Paper n° 62

Gianluca Guarini and Maurizio Rossi

Color consistency in BIM systems and in the visualization of the project in Real Time - An overview of possible solutions

16:25 Paper n° 59

Maurizio Rossi

The open issue of color management in circadian interior design between the practice of lighting and color design

16:30 Paper n° 60

Francesca Valan and Chiara Scopa

A leap in the dark! How understanding horses' color perception improves their performance and welfare in show jumping

16:35 Paper n° 53

Katarina Krstović, Martinia Ira Glogar, Veronika Lovreško and Vesna Marija Potočić Matković

Colour fading of aged knitted materials for swimsuits

16:40 Paper n° 14

Lorrain Caumon, Georges Zissis and Céline Caumon

Experience of place: colour and lighting design methods in the process of inclusive housing projects.

16:45 Paper n° 52

Rebecka Pires

Color Communication in Home Interior Design: An Analysis of Architectural Digest Covers from the 1980s, 1990s, and 2020s.

16:50 Paper n° 54

Ahmed Motie Daiche

Color and light in the photography of contemporary architecture

16:55 Paper n° 33

Birgit Schulz, Judith Augustinovic and Nayari Castillo-Rutz

Book of Patterns - an ongoing project

17:00 Paper n° 15

Svitlana Pryshchenko

Cultural-aesthetic parameters of colour in advertising communication

17:15 Chiusura dei lavori e saluti finali

Closing of the proceedings and final greetings