



**14th AIC Congress – Milan 2021**  
**August 30<sup>th</sup> – September 3<sup>rd</sup> 2021**  
**Tentative Final Program**

*Note: all time scheduling is refer to UTC+2*

**Monday August 30<sup>th</sup>, 2021**

<b>09:00 – 10:05</b>	
<b>SPECIAL SESSION</b>	
<b>INNOVATION AND RESEARCH IN COLOR FOR BEAUTY CARE AND HAIRSTYLE -1</b>	
<b>Chairs: <i>Alessandro Rizzi, Maurizio Rossi</i></b>	
<b><u>Oral:</u></b>	
Christine Fernandez-Maloigne	History of colors and beauty
Helene De Clermont-Gallerande	A comparative study of lipstick shades preferences by geographical area
Isabel Espinosa Zaragoza	Parallelism as advertising strategy in Maybelline’s lipstick colour names
Yuchun Yan, Hyeon-Jeong Suk	Fifty Shades of Beige: An Analysis on the Color System for Liquid Foundation
10:05-10:15 BREAK	
<b>10:15 – 11:05</b>	
<b>SPECIAL SESSION</b>	
<b>INNOVATION AND RESEARCH IN COLOR FOR BEAUTY CARE AND HAIRSTYLE -2</b>	
<b>Chairs: <i>Christine Fernandez-Maloigne, Helene De Clermont-Gallerande</i></b>	
<b><u>Oral:</u></b>	
Xiaoxuan Liu, Rui Peng, Ming Ronnier Luo	The impact of skin colours on visual impression

Yan Lu, Kaida Xiao	Quantifying facial colour appearance of Caucasian and Chinese faces
Kumiko Kikuchi, Shoji Tominaga, Jon Hardeberg	Development of measurement system for optical properties of facial skin using 3D camera and projector
<b>Short presentation:</b>	
Katsuaki Sakata, Hitomi Shimakura	Reference point for judging human facial skin tone
11:05-11:15 BREAK	
<b>11:15 - 12:00</b>	
<b>SPECIAL SESSION</b>	
<b>INNOVATION AND RESEARCH IN COLOR FOR BEAUTY CARE AND HAIRSTYLE - 3</b>	
<b>Chairs: Helene De Clermont-Gallerande, Christine Fernandez-Maloigne</b>	
<b>Oral:</b>	
Simone Liberini, Alessandro Rizzi	Munsell and Ostwald color spaces: a comparison in the field of hair coloring
Alessandro Rizzi, Roberta Suardi, Simone Liberini	Hair color wheels and charts
Alice Toninelli, Simone Liberini, Roberta Suardi, Giannantonio Negretti	Chromatic appearance of nylon swatches in hair color charts
12:00-12:10 BREAK	
<b>12:10 - 12:55</b>	
<b>SPECIAL SESSION</b>	
<b>INNOVATION AND RESEARCH IN COLOR FOR BEAUTY CARE AND HAIRSTYLE - 4</b>	
<b>Chairs: Alessandro Rizzi, Marcello Picollo</b>	
<b>Oral:</b>	
Daniele Fusari	Influence of color discrimination proficiency on wellness professionals' training and craft
Giannantonio Negretti	Hair coloring and customer satisfaction
Lupe Voss	More than a tube of Hair Colour: The Emotion
12:55-13:30 BREAK	

**13:30-15:30 OPENING CEREMONY**

**Maurizio Rossi - Congress Chair welcome**

- **Vien Cheung - AIC President**
- **Marcello Picollo - Associazione Italiana Colore President**
- **Alessandro Rizzi - Congress Chair to introduce the Congress Program**
- **Premio Colore GdC 2021 - Vittorio Storaro**

15:30 - 16:00 BREAK

**16:00-16:40 Invited Speaker**

**Reiner Eschbach "Color deficient see this way...or don't they?"**

**Chair: *Alessandro Rizzi***

16:40-16:50 BREAK

**16:50-17:55**

**SPECIAL SESSION**

**ALL THE COLORS OF CINEMA - 1**

**Chairs: *Sabina Negri, Mark Wentworth, Alice Plutino***

**Oral:**

Ivan Magrin-Chagnolleau	Handling Color in Photography and Film: From Photo Retouching to Color Grading
Pedro Felipe Pinho Souza	Color correction and color grading: how a film colorist works
Manuela Piscitelli	Colour in characters' identity in the animation cinema
Alice Plutino, Beatrice Sarti, Gabriele Simone, Alessandro Rizzi	A film in a frame: movie barcodes for film restoration
<b><u>Short presentation:</u></b>	
Mark Wentworth, Orly Morgenstern, Tania Erandeni Fuentes Villa	The Lilac Scarf – Color as a visual narrative as depicted in the film Far From Heaven (2002)

17:55-18:05 BREAK

18:05-19:35

**SPECIAL SESSION**  
**ALL THE COLORS OF CINEMA – 2**  
**Chairs: Alice Plutino, Mark Wentworth, Sabina Negri**

<b>Oral:</b>	
Paula Csillag, Amanda Sabião	PIXAR's Colorscripts: Chromatic Analyses of Four Films Using Sens Org Int Model
Ângela Santos, Vanessa Otero, Márcia Vilarigues	Colours of pre-cinema projections: the evolution of hand-painted magic lantern glass slides' palette
Sabrina Negri	Fine Arts on Film: The Hand-Painted Work of Stan Brakhage
Giorgio Trumpy, Sreya Chatterjee, Ulrich Ruedel, Barbara Flueckiger	A travel through the history of color film technology along with Gert Koshofer
Luca Giuliani	DIGITAL COLOR IN CINEMA: AN INCOMPLETE TRANSITION
Beatrice Sarti, Arianna Crespi, Giulia Morabito, Alice Plutino, Alessandro Rizzi	Film Repository for Restoration (FiRe2): identification of photographic and cinematographic films

19:35-19:45 BREAK

19:45-20:45

**SESSION 1 - COLOR AND CULTURE**  
**Chairs: Doreen Balabanoff, Letizia Bollini**

<b>Oral:</b>	
Martino Pavignano, Ursula Zich	Colour, material and prototyping for Architecture
Enrico Zampieri, Vincenzo Baldoni, Simone Garagnani, Andrea Gaucci, Michele Giovanni Silani	Digital reproduction of colors and materials used in the Picenum pottery: a case study in virtual archaeology
Marcela Sepulveda	Polychromy from the Atacama desert (South America). An interdisciplinary approach for an archaeology of color.
Camilla Tartaglia	The hidden history of woad blue: a path through technology and diffusion of "European indigo" in 18th-century technical literature

## Tuesday August 31<sup>st</sup>, 2021 (2 parallel sessions)

09:00-10:15		09:00-10:25	
SESSION 2 - COLOR AND PHYSIOLOGY Chairs: <i>John Barbur, Marisa Rodriguez-Carmona</i>		SESSION 4 - COLOR AND DESIGN Chairs: <i>Berit Bergstrom, Maria João Durão</i>	
<b>Oral:</b>		<b>Oral:</b>	
Larry Wallace	An introduction to Syntonic Phototherapy, and Vision Rehabilitation	Aigerim Shunayeva, Taesu Kim, Bokyung Lee, Hyeon-Jeong Suk	Evaluating Color and Material of Home Appliances in Virtual Homes during the Early Stage of Design
Kota Akiba, Midori Tanaka, Takahiko Horiuchi	Effect of ipRGC on Colour Perception of Display Device under Various Illuminants	Gyunpyo Lee, Taesu Kim, Hyeon-Jeong Suk	Is Blue still Representative for Future Vehicles?
Miyoshi Ayama, Minoru Ohkoba, Tomoharu Ishikawa, Shoko Hira, Sakuichi Ohtsuka	Difference Scaling and Color Naming of Red-Green Color Deficiencies	Boram Kim, Hyeon-Jeong Suk	Visualization of chair color data through network analysis
Firdevs Gökmenoğlu, Saadet Akbay	Effects of Colour on the Sense of Immersion in Virtual Interior Environments	Terumi Konno, Koichiro Kakiyama, Yasuhiro Kawabata	Effects of tension on clothing color selection
<b>Short presentation:</b>		<b>Short presentation:</b>	
Hideki Sakai	Brightness evaluation under the closed-eye condition: Measurement of optical transmittance of eyelid	Masato Sakurai, Ryoma Yamamoto	Relationship Between Taste Impression and Color in Snack Packages
Taesu Kim, Hyeon-Jeong Suk	EEG Responses to In-Car Dynamic Cluster Light	Tomoharu Ishikawa, Takumi Nakajima, Yoshiko Yanagida, Minoru Mitsui, Kazuya Sasaki, Miyoshi Ayama	Effect of Sensation Modalities on Texture Evaluation of Beige Fabrics by Japanese and Chinese
10:15-10:25 BREAK		Yumi Awano, Masayuki Osumi	The visual effect of clothes woven with peacock feathers and the symbolism in Japanese culture - Evaluation derived from gonio-photometric spectrum analysis and microscopic observation

		Eunji Han, Yungkyung Park	A study on associative color attributes of Antonyms in Korean language
		10:25-10:35 BREAK	
<b>10:25-12:00</b>		<b>10:35-12:10</b>	
<b>SESSION 3 - COLOR AND PHYSIOLOGY</b> <i>Chairs: Valérie Bonnardel, Cristian Bonanomi</i>		<b>SESSION 5 - COLOR AND DESIGN</b> <i>Chairs: Saara Pyykkö, Francesca Valan</i>	
<b>Oral:</b>		<b>Oral:</b>	
Francisco Díaz-Barrancas, Halina Cwierz, Pedro José Pardo	A study of physical and perceived linearity in a virtual reality environment	Agata Kwiatkowska-Lubańska	Colour and ornament in the Polish Art Deco style. Karol Homolacs and his colour course at the Cracow Workshops 1913-1926
Kari Bjerke Gjørde, Anne Kristin Kvitle, Phil Green, Peter Nussbaum	How accurate is an on-line test for colour vision deficiency?	Verena M. Schindler, Yulia A. Griber	The evolution of environmental colour design in the French period
Laura Rey Barroso, Mónica Roldán, Francisco J. Burgos-Fernández, Susanna Gassiot, Anna Ruiz Llobet, Ignacio Isola, Meritxell Vilaseca	Evaluation of Confocal Microscopy as a Diagnosis Tool on Red Blood Cell Diseases	Anna Kmita	CMF in commemorative ceramics. A design of a set of colors and textures on the example of the "Ckliwe na szkliwe" Project - a personal collection of memories on ceramic plates.
Kazim Hilmi Or	A specific use of colour and dyes: „Vital dyes in ophthalmology“	Andrea Macruz , Marcus Farr	Colored Response: Technology, Material Systems and Color Responsive Design in the Workplace
Marisa Rodriguez-Carmona, Benjamin Evans, John Barbur	Assessing colour vision using single and multi test protocols	Francesco Scullica, Elena Elgani, Umberto Monchiero	The relevance of color in post COVID-19 interior design
Flávia Mayer	The Construction Of Color By The Congenitally Blind	Anna Barbara, Reejy Atef Abdelatty Mikhail	The Odour of Colours: Correspondence from a Cross-Cultural Design Perspective
<b>Short presentation:</b>		<b>Short presentation:</b>	
Francisco J. Burgos-Fernández, Tommaso Alterini, Fernando Díaz-Doutón, Meritxell Vilaseca	Colorimetric analysis of eye fundus structures with multispectral retinography	Gyeonghwa Lee Vien Cheung, Tang Tang	The role of colour designers in the design process

12:00-12:20 BREAK		12:10-12:20 BREAK	
<b>12:20-13:00 Invited Speaker</b> <b>Robin Jenkin “The influence of CFA choice on automotive and other critical imaging systems”</b> <b>Chair: <i>Gabriele Simone</i></b>			
13:00-13:30 BREAK			
<b>13:30-15:30 AIC General Assembly</b>			
15:30-16:00 BREAK			
<b>16:00-16:40 Invited Speaker</b> <b>Luca Missoni “Color in fashion design”</b> <b>Chair: <i>Maurizio Rossi</i></b>			
16:40-16:55 BREAK			
<b>16:55-17:55</b>  <b>SPECIAL SESSION ILA - 1</b> <b>COLOUR, LIGHT &amp; SOUND: HOLISTIC APPROACH FOR WELLBEING</b> <b>Chairs: <i>Vicky Syriopoulou, Thelma van der Werff</i></b>		<b>16:55-17:55</b>  <b>SESSION 6 – COLOR AND DESIGN</b> <b>Chairs: <i>Ralf Weber, Agata Kwiatkowska-Lubańska</i></b>	
<b>Oral:</b>		<b>Oral:</b>	
Thelma van der Werff, Mary Ashby-Green	Colour as a coaching tool	Michel Albert-Vanel	Combination of colour as an analogue model
Pascal Vidal	Introduction to Photonic Medicine	Gisela Monteiro, Robert Hirschler	A mount-it-yourself 3D colour model for designers
Pauline Allen, Phil Stickland, Heather Benghiat	How the sensory impact our journey through life	Ingrid Calvo Ivanovic, Marta Elisa Cecchi, Galasso Clorinda Sissi, Borin Ambra, Mastrantoni Claudia, Scagnoli Martina	The Colours of Individual and Collective Memory: Mnemosphere, a Visual Atlas of Memory, Emotions and Atmosphere of Places
Susana Ribeiro	Bodygraphy - Chromatic performance on surrounding space	Luwen Yu, Stephen Westland, Vien Cheung, Guobin Xia	Analysis of research strategies to determine colour preference

17:55-18:05 BREAK		17:55-18:05 BREAK	
<b>18:05-19:05</b>		<b>18:05- 19:20</b>	
<b>SPECIAL SESSION ILA - 2 COLOUR, LIGHT &amp; SOUND: HOLISTIC APPROACH FOR WELLBEING</b>		<b>SESSION 7 – COLOR AND DESIGN</b>	
<b>Chairs: Vicky Syriopoulou, Thelma van der Werff</b>		<b>Chairs: Dimitris Mylonas, Doreen Balabanoof</b>	
<b>Oral:</b>		<b>Oral:</b>	
Gerald Zrenner	echobell - "Sound-pharmacy to go" Effective treatment with sound, vibration and light	Déborah Da Silva, Mohr Christine, Mari Uusküla, Quiblier Michael, Maliha Bouayed, Eric Laurent, Domicela Jonauskaitė	Coding free word associations to understand the psychological meaning of purple in French
Angelika Klotz	Rediscovering Health with Colour, Light and Frequencies	Inez Michiels	Design Semantics Database
Valérie Bonnardel	Colour, Human experience and cyborgism	Martinia Glogar, Sandra Flinčec Grgac, Antonia Zanchi	Interaction of Colour and Cotton Fabric Surface Coated with Ultrafine Cellulose (UFC)
Margo Ruiter	The power of earth colours	Mariateresa Campolongo	The interior yacht design big potential of color through the years
19:05-19:15 BREAK		Guobin Xia, Philip Henry, Francisco Queiroz, Stephen Westland, Luwen Yu	Colour–cognitive performance interaction in Virtual Reality (VR): A study of gender differences
		19:20-19:30 BREAK	



<b>19:15-20:45</b> <b>SPECIAL SESSION ILA - 3</b> <b>COLOUR, LIGHT &amp; SOUND: HOLISTIC APPROACH FOR WELLBEING</b> <b>Chairs: Vicky Syriopoulou, Thelma van der Werff</b>		<b>19:30-20:40</b> <b>SESSION 8 – COLOR AND DESIGN</b> <b>Chairs: Vien Cheung, Francesca Valan</b>	
<b>Oral:</b>		<b>Oral:</b>	
Claudia Bonollo	The imagined body	Delia Dumitrescu, Marjan Kooroshnia, Erin Lewis, Kathryn Walters	Colour, texture, and luminance: Textile design methods for printing with electroluminescent inks
Daniel Asis	Auricular Chromotherapy in the treatment of Psychological Trauma	Elizaveta Kushnirenko	Color in Fashion Design: orange that changed our perception of Luxury - the use of color at Hermès Paris.
Arzhan Surazakov	Coherent application of low-intensity laser, colour, ultrasound and magnetic field (coMra) for regenerative therapy of injury or disease	Xuechang Leng	The meaning of blue-green tiles on the roofs of the Qinzheng Hall complex at the Summer Palace
Abhay Wadhwa	Soul-X: The Experience Center for Mind-Body Harmony	Rebecka Pires	The use of warm and cool colours in domestic interiors design: an analysis of the 1960's, 1970's and 1980's
Anadi Martel	Treating chronic pain and depression with color and sound: recent studies using the Sensora system	<b>Short presentation:</b>	
		Gianluca Guarini, Maurizio Rossi	Procedure to obtain trustful colors in renderings produced by BIM commercial software
		Ana Paula Pinheiro, Rui Duharte	Color and Sustainability in Fashion Design: DUARTE, Portugal

## Wednesday September 1<sup>st</sup>, 2021 (2 parallel sessions)

09:00-10:35		09:00-10:35	
SESSION 9 - COLOR AND EDUCATION Chairs: <i>Robert Hirschler, Jodi Sandford</i>		SESSION 14 - COLOR AND PSYCHOLOGY Chairs: <i>Oswaldo Da Pos, Alessandro Bortolotti</i>	
<b>Oral:</b>		<b>Oral:</b>	
David Briggs	More than Three Dimensions: Communicating the Attributes of Colour Perception in Colour Education.	Mahshid Baniani	What color is your mood? The association between moods and colors
Ching Chih Liao	Analysis and Application of Artwork Color - Awaken Students' Color Aesthetics and Narrative Ability through Artworks at the National Palace Museum in Taipei	Jinyoung Kim, Jiyeon Lee, Yungkyung Park	Why are common natural colors (soil, sand, trees, sky, stones, etc.) useful? Why does it go well with all colors?
Woon Lam Ng	Factors that Influence Color Choice – A Study of Cultural, Symbolical and Synesthetic Behaviors	Byeongjin Kim, Taesu Kim, Hyeon-Jeong Suk	Comfortable Brightness for Watching Television in the Dark
Gülru Mutlu Tunca, Saadet Akbay, Güler Ufuk Demirbaş	Parametric Design Studio in Interior Architecture Education: A Case of Integration of Colour Design	Akira Asano, Ayaka Shimura, Chie Muraki Asano	Effect of red color and external interferences in selection tasks
Paul Green-Armytage, Maggie Maggio	Beyond the Rainbow: A New Sorting Set for Teaching colour	Ray-Chin Wu, Chao-Lung Lee, Ming-Hsiu Mia Chen, Chien-Wei Chang, Yun-Maw Cheng	The Study on Colour Emotions of the mask
<b>Short presentation:</b>		<b>Short presentation:</b>	
Lea Jeong , Yungkyung Park	Color Names Education Effect on the Color Range Recognition	Andrew Chalmers	Is "Naturalness" a valid lighting concept
Jihye Choi, Paolo Calafiore	Color Against Covid-19, Colorful Safety for School	Yoonjeong Jo, Yungkyung Park	Color Appearance and Preference according to Changes in Color Temperature and Illuminance of a Light Source by Rose Color

Berenice Gonçalves, Dorival Vendramini, Marley de Lira	Educational resources based on augmented reality applied to Color Theory contents / UFSC	Ichiro Katayama, Kin'nosuke Yamaji	Effect of the shade due to the surface unevenness of objects on whiteness perception
10:35-10:45 BREAK		10:35-10:45 BREAK	
<b>10:45-12:00</b> <b>SESSION 10 - COLOR AND RESTORATION</b> <b>Chairs: Marco Gaiani, Anna Marotta</b>		<b>10:45-12:00</b> <b>SESSION 15 - COLOR AND PSYCHOLOGY</b> <b>Chairs: Cristian Bonanomi, Yulia A. Griber</b>	
<b>Oral:</b>		<b>Oral:</b>	
Junglim Lee, Yungkyung Park	Colour Prediction of Korean Court Documentary Painting Using Colour Space	Muhammad Farhan Mughal, Ming Ronnier Luo, Michael R. Pointer	Perceived attractiveness across Chinese and Pakistani ethnic groups
Wensi Lin, Jing Chen, Mengyue Zhang, Jisheng Wang, Mengqi Li	Knowledge Production Transformation of Nanjing Brocade Color in the Digital Age	Tzuhao Liu, John Hutchings, Ming Ronnier Luo	The Valence and Arousal contribution of colour parameters
Yuton Jiang, Luke Li, Yihua Zheng	Quantitative color examination and restoration of historical architecture: the study of polychrome decoration of a Qing-style timber-frame structure in Tsinghua University (Beijing, China)	Rui Vasques, António José Macedo Coutinho da Cruz Rodrigues, Diamantino S. Abreu	Visual and sensory perceptions between static and dynamic colors
Martina Redi, Sofia Ceccarelli, Alessandra Terrei, Noemi Orazi, Fulvio Mercuri	Diagnostic analysis for colour restoration of a painted Japanese emakimono	Anna Marotta, Alessandra Brosio	Color as a therapeutic adjuvant: theories and applications in the hospital setting
Marcello Picollo, Costanza Cucci, Andrea Casini, Filippo Cherubini, Lorenzo Stefani	Hyper-Spectral Imaging Technique: Application for Colorimetric Analysis of Paintings	<b>Short presentation:</b>	
12:00-12:20 BREAK		Sachiko Noguchi, Rumiko Takata, Kaori Segawa, Ichiro Katayama	Application of color feelings prediction formulas to the estimation of two-color combination feelings of "kimono"
		Shi-Min Gong	A Study of Color Preference for Three-Dimensional Color Configuration

	Alessandro Bortolotti, Loreta Cannito, Stefano Anzani, Riccardo Palumbo, Maurizio Rossi	Lighting emotions: A review of the emotional influence of color perceived lightness
12:00-12:20 BREAK		
<b>12:20-13:00 Invited Speaker</b> <b>Austin Nevin “Conservation science and changing colours – Approaches to measuring and managing change”</b> <b>Chair: <i>Marcello Picollo</i></b>		
13:00-13:15 BREAK		
<p style="text-align: center;"><b>13:15-16:15</b></p> <p style="text-align: center;"><b>AIC Study Groups Workshop (2 parallel sessions)</b></p> <p><b>13:15 - 14:45 <u>AIC 2021 Study Group on Environmental Color Design</u></b>  <b>Chair: <i>Yulia A. Griber, Verena M. Schindler</i></b></p> <ul style="list-style-type: none"> <li>-Zena O’Connor “Identifying and managing the factors that impact variability between specified and perceived color”</li> <li>-Pablo Manyé “Variability of sociocultural colour associations related to the environment in Northeastern Brazil“</li> <li>-Monica Kuo “East vs. West: How color is perceived differently in psychological and physical environments of different cultures”</li> <li>-Kazim Hilmi Or “Colours of face masks used during Covid-19 pandemic and social messaging”</li> </ul> <p style="text-align: center;"><b>14:45-16:15 <u>AIC 2021 Study Group on Language of Color</u></b>  <b>Charis: <i>Galina Paramei, Dimitris Mylonas</i></b></p> <ul style="list-style-type: none"> <li>- Emanuela Valeriani &amp; Lourdes García Ureña “The language of color in the Bible (Hebrew, Greek, Latin): A methodology to approach the meaning of color terms”</li> </ul>	<p style="text-align: center;"><b>13:15-16:15</b></p> <p style="text-align: center;"><b>AIC Study Groups Workshop (2 parallel sessions)</b></p> <p><b>13:15 - 14:45 <u>AIC 2021 Study Group on Arts and Design Workshop</u></b>  <b>Chair: <i>Maria João Durão</i></b></p> <p style="text-align: center;"><b>13:15 WELCOME REMARKS</b></p> <p><b>13: 20 Jeannette Hanenburg “Art Classes at Ações Sociais Amigos Solidários (ASAS)-Florianopolis, Brasil. Room with a view - A case study”</b></p> <p><b>13:45 ARTS &amp; DESIGN VIRTUAL EXHIBITION (Part 1) - Curated by Maria João Durão</b></p> <p><b>14:00 Larissa Noury “Tactile painting &amp; Haute Couture”</b></p> <p><b>14:15 ARTS &amp; DESIGN VIRTUAL EXHIBITION (Part 2) - Curated by Maria João Durão</b></p> <p style="text-align: center;"><b>14:30 DISCUSSION</b></p> <p style="text-align: center;"><b>14:45-16:15 <u>AIC 2021 Study Group on Color Education</u></b>  <b>Chairs: <i>Robert Hirschler, Maggie Maggio</i></b></p>	

- Maria Del Viva, Ilaria Mariani, Carmen De Caro, Galina Paramei  
 "Florence blues are clothed in triple basic terms"  
 - Mari Uusküla "From Welsh *gwyrd* to Italian *azzurro*: Translation of  
 colour language between and within languages"



16:15-16:30 BREAK

16:30-17:10 Invited Speaker  
 Giovanni Pinna "Lighting and color design in the show"  
 Chair: *Maurizio Rossi*

17:10-17:15 BREAK

**17:15-18:15**  
**SESSION 11 - COLOR AND LIGHTING**  
 Chairs: *Andrea Siniscalco, Gabriele Simone*

**17:15-18:35**  
**SESSION 16 - COLOR AND PSYCHOLOGY**  
 Chairs: *Galina Paramei, John McCann*

**Oral:**

Maurizio Rossi	A proposal for the definition of extended colored light sources in lighting CAD
Laura Bellia, Francesca Diglio, Francesca Fragiasso	Lighting quality for home-working spaces: a survey
Carolina Espinoza-Sanhueza	Potential of colour in interiors for human light-responsive ambiances in northern locations
Laura Bellia, Urszula Błaszczak, Francesca Fragiasso, Lukasz Gryko	The colours of light in indoor environments: Mixing daylight and electric light spectra to define a proper match

**Oral:**

Dr Pia Lopez-Izquierdo	The Emotional Language of Colour
Domicela Jonauskaitė, Christine Mohr	Colour-emotion associations: What have we learned so far and what are the unknowns?
Barbara Matusiak	Colour shift due to Chromogenic dynamic glass
Juan Serra, David De Andrés, Ana Torres	ColorDoku 3d, gamification to improve perceptual color discrimination ability and spatial vision
Katherine Carpenter, Susan Farnand	Determination of the Representative Color of a Smartphone Image

18:15-18:25 BREAK

<b>18:25-19:35</b> <b>SESSION 12 - COLOR AND RESTORATION</b> <b>Chairs: Austin Nevin, Marcello Picollo</b>		<b>18:45-20:15</b> <b>SESSION 17 - COLOR AND EDUCATION</b> <b>Chairs: Maggie Maggio, Verena M. Schindler</b>	
<b>Oral:</b>		<b>Short presentation:</b>	
Guido Frison, Maurizio Aceto, Angelo Agostino, Dimitris Mylonas, Alberto Calatroni	Analysis of the colorants of cultural items: from a qualitative to a semi-quantitative data treatment through BCTs	Nian Xiong, Henry J. Trussell, Renzo Shamey	Psychophysical Study of the Perception of Color Gradient Boundaries
Jimena Vanina Odetti, Alberto Reyes González	Color, landscape and cultural heritage. The case of the Pitillal river, in Puerto Vallarta, Jalisco, Mexico.	18:35-18:45 BREAK	
Olivia Kuzio, Susan Farnand	LED-based versus Filter-based Multispectral Imaging Methods for Museum Studio Photography	<b>Oral:</b>	
Eric Kirchner, Carola van Wijk, Henni van Beek, Tammo Koster, Pim Koeckhoven	A new target to test color accuracy in technical photography of fine arts	Berta Martini, Rossella D'Ugo, Monica Tombolato	Teaching and learning color. An insight into STEM/STEAM approach
<b>Short presentation:</b>		Dominique Corger, Caroline Bouchez, Blandine Chorein	COLOR and POLYMERS at ITECH
Hortense de La Codre, Charlotte Marembert, Rémy Chapoulie, Laurent Servant, Aurélie Mounier	Hyperspectral mapping (VIS-SWIR) of materials of three 18th C. tapestries of Royal Manufactures in France (Gobelins, Beauvais, Aubusson)	Saara Pyykkö	How to convert the experience-based university course about "Colour, Light and Space" for the web?
Márcia Hazin, João Nuno Pernão	Classification and comparison of painted ceilings from eighteenth-century churches in colonial Brazil using the colorimeter and the NCS system.	Franca Zuccoli	Mario Lodi: "Children's colours are festive, flamboyant, vivid colours"

19:35-19:45 BREAK		Flora Gaetani, Fausto Brevi, Donatella Balloni	Color proposals consistency in the CMF for car design education
<b>19:45-21:00</b>		Craig Kirkwood	We don't know Jack about Hue – the Colour Knowledge Survey
<b>SESSION 13 - COLOR AND BUILT ENVIRONMENT</b> <b>Chairs: <i>Anna Marotta, Larissa Noury</i></b>			
<b>Oral:</b>			
Jean-Luc Capron	Spatio-temporal Factors of Colored Light Sequences in the Built Environment		
Camilla Giani, Cristina Boeri	Children's colour preference in the school context		
Estelle Guerry	Prehension and qualification of chromatic and lighting environment. Study case – Paimio Sanatorium, Alvar Aalto		
Justyna Tarajko-Kowalska	Is “yellow house” really “yellow”? Survey on determining the range of perceiving the yellow color on building facades depending on the hue, lightness and chroma.		
Ana Sutlovic, Martinia Glogar, Ivana Padavic	Plant Transfer Printing on Cotton and Silk		

## Thursday September 2<sup>nd</sup>, 2021 (2 parallel sessions)

<b>09:00-09:55</b>		<b>09:00 – 10:35</b>	
<b>SESSION 18 – COLOR AND MEASUREMENT/INSTRUMENTATION</b> <i>Chairs: Ming Ronnier Luo, Frank Rochov</i>		<b>SESSION 25 – COLOR AND COMMUNICATION/MARKETING</b> <i>Chairs: Anna Marotta, Larissa Noury</i>	
<b>Oral:</b>		<b>Oral:</b>	
Kanoko Makino, Kaoruko Kitamura, Haruno Tsuda, Yuki Oe, Nozomu Yoshizawa	Colour appearance of a white space with greenish daylight	Zena O'Connor	Data visualization: The power and persuasive capacity of colour
Shimpei Fukagawa	Development of color and gloss measurement system with wide-range temperature and humidity control unit	Qinyue Chen, Yuchun Yan, Hyeon-Jeong Suk	Color and typography matter: Investigating Voice-Aware Text Design in Voice Media
Raymond Chiang, Pei-Li Sun	Identify the characteristics of optically variable inks with deep learning	Raffaella Trocchianesi, Francesco Guida	Visual grammars, chromatic codes, communication registers and exhibit narratives of the Beatles' iconic phenomenon
<b>Short presentation:</b>		<b>Short presentation:</b>	
Shuhei Watanabe, Takahiko Horiuchi	Estimation of authenticity model considering the color: Leather as a case study	Boshuo Guo, Stephen Westland, Peihua Lai	Sentiment Analysis Based on Frequency of Colour Names on Social Media
09:55–10:05 BREAK		Daniela Pinheiro, Teresa Almeida, Domingos Loureiro	Color Specificity: the perception of difference through exhausting repetition
<b>10:05 – 10:55</b>		<b>Short presentation:</b>	
<b>SESSION 19 – COLOR AND MEASUREMENT/INSTRUMENTATION</b> <i>Chairs: Takahiko Horiuchi, Dimitris Mylonas</i>		Anica Hunjet, Dijana Vuković, Sandra Križan	Influence of wine color on wine selection and consumption
<b>Oral:</b>		Lidija Mandić, Maja Strgar Kurečić	The role and significance of color when choosing cars
Jiaxun Zhang, Haisong Xu, Hao Jiang	Cross-media color reproduction under mixed adaptation condition	Peihua Lai, Boshuo Guo, Stephen Westland	Why do people choose their car colours?
Zhang Ye	Study on colour effect of transparent material under colour-light	10:35-10:45 BREAK	



Qinyuan Li, Jinxing Liang, Yan Lu, Kaida Xiao, Michael Pointer	Quantification of the effect of colour appearance and materials on the visual- tactile properties of fabrics
<b>Short presentation:</b>	
Shahin Aldhahir	Differential Color Perception Theory
10:55-11:05 BREAK	
<b>11:05-12:10</b>	
<b>SESSION 20 - COLOR AND DIGITAL</b> <b>Chairs: Arjan Gijsenij, Pedro Pardo</b>	
<b>Oral:</b>	
Yiming Huang, Haisong Xu, Zhengnan Ye	HDR image quality evaluation for mobile displays
Li Yumei, Liao Ningfang, Wu Wenmin	Research on HDR image tone compression algorithm based on modified ICAM06
Sandhiya Jayaprakash Brindha, Monica Vatteroni, Gabriele Simone	HDR imaging using CMOS technology inspired by human eyes for Automotive applications
Yi-Tun Lin, Graham Finlayson	Recovering Real-World Spectra from RGB Images under Radiance Mondrian-World Assumption
<b>Short presentation:</b>	
Pengpeng Yao, Jack Hc Wu, John Xin	The use of LED-based illumination for Multispectral Imaging System
12:10-12:20 - BREAK	

<b>10:45-12:00</b>	
<b>SESSION 26 -COLOR AND CULTURE</b> <b>Chairs: Raffaella Trocchianesi, Mari Uusküla</b>	
<b>Oral:</b>	
Jing Chen, Wensi Lin, Jisheng Wang, Mengqi Li	Digitizing and Recovering the Tacit Knowledge of the Traditional Color of China
Huang Qian	A Study On The Original Religious Color Of Miao Nationality In Fenghuang County Of China
Zoriana Lotut	Reading Medieval Colour. The Case of Blue in the Canterbury Tales
Maria João Durão	Colour folds: representation systems and colour innovations in Italian Renaissance painting
<b>Short presentation:</b>	
Xiaochan Ge, Xue Mao, Jie Xu	Identifying the colour of Longquan Celadon Porcelain
Lia Luzzatto	Colors in the feminine between the Middle Ages and the Renaissance
Renata Pompas	Chagall e Malevič: the colors of the imagination and the colors of the absolute
12:00-12:20 BREAK	

**12:20:13:00 Invited Speaker**  
**Pietro Marani “Leonardo’s color today: from the dark to the light”**  
**Chair: Maurizio Rossi**

13:00-13:30 BREAK

**13:30-15:30 AWARDS**

- **Leslie Harrington - AIC Vice President will chair this session**
  - **Vien Cheung - AIC President will show the CADE Medal**
- **Jean-Philippe Lenclos - CADE Award Lecture: «Living in colour» -«Vivre en couleur»**
- **Leslie Harrington - AIC Vice President will show the Judd Medal**
- **John McCann - Judd Award Lecture: “Edges in illumination control appearances in natural HDR scenes”**

15:30-16:00 BREAK

**16:00-17:15**

**SESSION 21 - COLOR AND DIGITAL**

**Chairs: Javier Hernández-Andrés, Susan Farnand**

**Oral:**

Cristian Bonanomi, Kedar Sathaye	Imaging colorimeters to evaluate Camera Monitor Systems
Simone Zini, Marco Buzzelli, Gianluigi Ciocca, Guiming Liao, Raimondo Schettini, Mikhail Tchobanou, Simone Zini	Analysis of Biases in Automatic White Balance Datasets
Chloe Game, Michael Thompson, Graham Finlayson	Chromatic Weibull Tone Mapping for Underwater Image Enhancement
Marco Buzzelli, Simone Bianco, Raimondo Schettini	Angle-Retaining Color Space for Color Data Visualization and Analysis

**Short presentation:**

Ana Belén López-Baldomero, Manuel Rubiño, Carolina Ortiz, Carlos Salas	Comparison of color gamuts generated by digital printing devices under different conditions
Alfonso De Lucas Tron	The perceptual calibration of color. An exploration

**16:00-17:15**

**SESSION 27 - COLOR AND CULTURE**

**Chairs: Berit Bergstrom, Simone Garagnani**

**Oral:**

Dimitris Mylonas, Alexandros Koliouisis, Mari Uusküla	Synonymy in the language of colour
Yannis Skarpelos	Color semantics in popular culture: Greek women's magazines and music albums colors in the postwar era
Letizia Bollini, Martina Falta	Brides in black widows in white. Semantic evolution of the social and cultural meaning of colours in European costume iconography.
Mari Uusküla, David Bimler	The green-blue border does not depend on the number of blues in a language: Evidence from cross-linguistic colour-naming data
Yulia A. Griber, Dimitris Mylonas, Galina Paramei	Age-related differences in richness and diversity of Russian color lexicon

17:15-17:25 BREAK

Hao Cui, Renzo Shamey	Diagnosis of Psoriasis using image segmentation and deep learning		
17:15-17:25 BREAK			
<b>17:25-18:45</b> <b>SESSION 22 - COLOR AND DIGITAL</b> <b>Chairs: Laura Bellia, Mark Fairchild</b>		<b>17:25-18:50</b> <b>SESSION 28 - COLOR AND CULTURE</b> <b>Chairs: Robert Hirschler, Verena M. Schindler</b>	
<b>Oral:</b>		<b>Oral:</b>	
Yuteng Zhu, Graham Finlayson	Designing a Single Pre-filter for Making a Group of Cameras more Colorimetric	KEYNOTE SPEAKER Clino Trino Castelli	Umbrella Diagram - 1981-2021, four decades of forecasts and CMF design
Jake McVey, Graham Finlayson	Fast and Optimal Contrast Limited Tone Mapping	Anna Marotta, Rossana Netti	Knowledge as a project parameter: comparative colour theories
Arjan Gijsenij, Peter Spiers, Stephen Westland, Pim Koeckhoven	Deriving representative color palettes from mood board images	Anna Marotta	Scientific principles in art from the Theories of Color: Authors, methods, rules, applications
Emilie Robert, Magali Estriebeau, Rémi Barbier, Greggory Swiathy, Justin Plantier, Pierre Magnan	Impact of the training data used in linear least square optimization for faithful scene-specific color correction of raw images	Cristiana Bartolomei, Cecilia Mazzoli, Caterina Morganti	The building materials of Luis Barragán: light and colour
<b>Short presentation:</b>		Joaquim Santos	Tili Wiru Tjuta Nyakutjaku:* Towards an Extensive Cultural Paradigm
Barbara Blaznik, Franci Kovač, Grega Bizjak, Sabina Bračko	Fastness of black dye-based ink-jet printing inks in aqueous solution in the presence and absence of oxygen	18:50-19:00 BREAK	
Brandon Hobley, Graham Finlayson, Michal Mackiewicz, Julie Bremner, Tony Dolphin, Riccardo Arosio	Colour transfer methods for image fusion in remote sensing applications		

Pedro Pardo, Francisco Díaz Barrancas, Halina Cwierz López	Color Constancy in virtual reality scenes: a first step toward a color appearance model in virtual reality	<b>19:00-20:10</b>	
Marisol Fernández-Carvelo, Miguel Angel Martinez-Domingo, Eva M. Valero, Juan Luis Nieves, Javier Romero, Javier Hernández-Andrés	Band selection for different dehazing algorithms in the visible range	<b>SESSION 29 - COLOR AND CULTURE</b> <b>Chairs: Leslie Harrington, Paula Csillag</b>	
18:45-18:55 BREAK		<b>Oral:</b>	
<b>18:55-19:40</b>		Anat Lechner, Leslie Harrington	Making Color Decisions In The Age Of Digitization, Data and Artificial Intelligence
<b>SESSION 23 - COLOR AND MEASUREMENT/STRUMENTATION</b> <b>Chairs: Renzo Shamey, Francesca Fragliasso</b>		Anat Lechner, Leslie Harrington	What can 1/2 a million color names tell us about color psychology?
<b>Oral:</b>		Mark Fairchild	System for Visual Assessment of Wine Color
Esther Perales, Alejandro Ferrero, Andrea Morales, Juan Carlos Fernández-Becáres, Marjetka Milosovic, Joaquin Campos, Khalil Huraibat, Jorge Pérez, Valentín Viqueira	Impact of the color hue on the sparkle perception	Petronio Bendito	Algorithmic Color Methods of Media Arts
Khalil Hurabait, Esther Perales, Eric Kirchner, Ivo Van der Lans, Alejandro Ferrero, Joaquín Campos	Multiangle visual validation of a physically based rendering of goniochromatic colors	<b>Short presentation:</b>	
Rada Deeb, Graham Finlayson	The Locus Filter	Zhaohua Lei, Elza Tantcheva-Burdge, Vien Cheung	Investigation into the Colours of the DunHuang Murals from the Tang Dynasty
19:40-19:50 BREAK		Henriette Jarild Koblanck, Monica Moro	Straw/Light – Colour

19:50-20:15

**SESSION 24 - COLOR AND PRODUCTION**  
**Chairs: Andrew Chalmers, Filippo Cherubini**

**Oral:**

Vesna Marija Potočić Matković, Ana Sutlovic, Martinia Ira Glogar	Colour fading in the polyurethane coating depending on the substrate and conditions of natural weathering
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**Short presentation:**

Ji Eun Lee	Evaluation of Emotional Images According to Differences in Post-processing of Plastic Cosmetics Containers
Georgina Ortiz Hernández, Citlali Q. Ortiz Hernández, Oscar Francisco Bustamante	Shape and color through time

**Friday September 3<sup>rd</sup>, 2021**

09:00-10:25

**SESSION 30 - COLOR AND LIGHTING**  
**Chairs: Laura Bellia, Maurizio Rossi**

**Oral:**

Hyeonju Park, Hyeon-Jeong Suk	Design Guidelines for Light Interfaces of Home Appliances
Jingyi Lin, Ming Ronnier Luo, Keith Hoover, Tinwei Huang, Keyu Shi	Colour Performance Evaluation for LED Simulator Technology
Stine Louring Nielsen, Emma-Sofie Hestbech, Ellen Katrine Hansen	Moving in Colour Illuminated Space
Ayse Nihan Avci, Saadet Akbay	OLED Lighting and Human Circadian System: A Review

**Short presentation:**

Lorrain Caumon, Georges Zissis, Céline Caumon, Élodie Bécheras, Estelle Guerry, Christelle Infantes	Colour, light & well-being, characterization of chromatic phenomena in collective housing
Andrea Siniscalco	A design approach to lighting and color rendering in indoor sets
Mengyuan Chen, Stephen Westland	User acceptance of innovative blue light therapy to treat seasonal affective disorder
Oscar Santilli	Colored light shapes
10:25-10:35 BREAK	
<b>10:35-12:05</b>	
<b>SESSION 31 - COLOR AND BUILT ENVIRONMENT</b> <b>Chairs: <i>Anna Marotta, Ralf Weber</i></b>	
<b>Oral:</b>	
Sari Yamamoto	Practice-based research on color planning for educational facilities
Fabrizio I. Apollonio, Marco Gaiani, Asako Nakamura	Urban color mapping in Tokyo: the case study of Hillside terrace
Lanqing Gu, Adamantia Batistatou, Yvonne Delevoye, Jenny Roe, Martin Knöll	Using color to promote restorative sidewalk experiences: an experimental study based on manipulated street view images
Changying Xiang, Barbara Szybinska Matusiak	Aesthetic Evaluation of Facade Integrated Coloured Photovoltaics Designs-an International Online Survey
Esra Küçükılıç Özcan, Fatma Rengin Ünver	A screen experiment on the assesment of facade colour perception factors
Patrizia Falzone	Complexity of the theme of the Painted Façades in the large and medium historical centers in relation to the environmental contexts to which they belong
12:05-12:20 BREAK	
<b>12:20-13:00 Invited Speaker</b> <b>Francesca Valan "Color in industrial design"</b> <b>Chair: <i>Maurizio Rossi</i></b>	
13:00-13:30 BREAK	

### 13:30-14:30 Closing Ceremony

- **Marcello Picollo - Associazione Italiana Colore President chair this session**
- **Valérie Bonnardel presenting the Color Group GB - Robert W G Hunt Poster Awards**
  - **Doreen Balabanoff - AIC 2022 Canada presentation**
    - **Paula Csillag - AIC 2024 Brazil presentation**
    - **Tien-Rein Lee - AIC 2025 Taiwan presentation**
- **Ceremony of the virtual passage of the Banner from AIC2021 to AIC2022 (video)**
- **Alessandro Rizzi & Maurizio Rossi - AIC2021 Chairs short talk on the numbers of AIC2021**
  - **Vien Cheung - AIC President closing talk**

14:30-15:00 BREAK

### 15:00-16:15

#### SESSION 32 - COLOR AND BUILT ENVIRONMENT

*Chairs: Fabrizio Ivan Apollonio, Fausto Brevi*

#### Oral:

Doreen Balabanoff	Colour and Design of Birth Spaces: A transdisciplinary review of the literature
Marco Gaiani, Fabrizio I. Apollonio, Zhaohua Lei	A multiscale approach to the urban space color analysis starting from the case of study of the Collegio di Milano
Jenny Roe, Martin Knöll	The variability of 'green' and blue' in natural and built environments and the implications for restorative environment research and psychological wellbeing.
Filippo Cherubini, Andrea Casini, Costanza Cucci, Marcello Picollo, Lorenzo Stefani	Application of hyperspectral camera and spectroradiometer for spectroscopic and colorimetric measurements on polychrome surfaces in a controlled environment: pros and cons of the presented technologies
Jorge Llopis, Juan Serra, Irene De la Torre	Color, ceramics and architecture in the Spanish Renaissance. Serlian serial ceramics and their role in the construction of a new spatiality

16:15-16:25 BREAK

16:25-17:30

**SESSION 33 - COLOR AND BUILT ENVIRONMENT**

**Chairs: *Marco Gaiani, Simone Garagnani***

**Oral:**

Beichen Yu, Simon Bell, Giorgio Ponzio	The emerging trend of saturated colour in the contemporary urban environment: an updated view of colour
Ralf Weber, Kine Angelo, Thomas Kanthak, Maya Weber	A Color Inventory of and Color Guide to Dresden's Neustadt
Francesca Salvetti, Michela Scaglione	The use of color in the urban landscape through regeneration projects of the degraded open spaces of the city
Margherita Cicala, Luciano Lauda	The color in the street art of Gianluca Raro and Fabio Biodpì: between social impact and urban periphery in Scampia

**Short presentation:**

Simona Kemenater, Daniela De Biase	The contemporary place of worship: functionality and emotions through Light and Colour
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17:30-17:40 BREAK

17:40-18:30

**SPECIAL SESSION ALL THE RECENT BOOKS ON COLOR - 1**

**Chairs: *Verena M. Schindler, Yulia A. Griber***

**Oral:**

Juan Serra	Color for Architects
Ana Torres	Modifications of the visual comfort in residential centers to improve the quality of life for the elderly
Berit Bergström	COLOUR CHOICES A practitioner's guide to creating colour schemes and design
Maria João Durao	'Colour: Urban Space, Architecture and Design'
Paula Csillag	Book Presentation - Color Communication: a scientific approach from visual perception

18:30-18:40 BREAK



18:40-19:20

**SPECIAL SESSION ALL THE RECENT BOOKS ON COLOR – 2**

**Chairs: *Verena M. Schindler, Yulia A. Griber***

<b><u>Oral:</u></b>	
Yannis Skarpelos	Book: The Uncertain Signs
Jodi Sandford	The Sense of Color: A Cognitive Linguistic Analysis of Color Words
Anadi Martel	Light Therapies - A complete guide to the healing power of light
Verena M. Schindler, Yulia A. Griber	Publications: The International Scientific Conference of the Color Society of Russia