

Oral Papers

08:30-10:30 / Halla A Hall

OS01: Art & Culture I

- OS01-1 A Study of the Descriptive Color Word in the Chinese Tradition: Yellow's Case
Hsueh-Fen Lin (Cheng Shiu University, Taiwan), Shu-Ping Feng (Kao Yuan University, Taiwan)
- OS01-2 Soleil de minuit – the Spectral Design of 14 Glass Panels for the Montréal Metro
Adrien Gary Lucca (ENSAV La Cambre, Belgium)
- OS01-3 A Study on Modern Art Expression of Cheeloo Colored Glaze
Li Liu (Zibo Vocational Institute, China)
- OS01-4 Digital Restoration of Van Gogh's Painting Field with Irises near Arles
Eric Kirchner (AkzoNobel Performance Coatings, Netherlands), Ivo van der Lans (AkzoNobel Performance Coatings, Netherlands), Frank Ligterink (Cultural Heritage Agency, Netherlands), Muriel Geldof (Cultural Heritage Agency, Netherlands), Art Ness Proano Gaibor (Cultural Heritage Agency, Netherlands), Ella Hendriks (Van Gogh Museum, Netherlands), Koen Janssens (University of Antwerp, Belgium), John Delaney (National Gallery of Art, USA)
- OS01-5 Designing symbol color for regional revitalization - A study of black in Kagoshima -
Akiyo Makino (Kagoshima University Innovation Center, Japan)
- OS01-6 Wabi and Sabi as the Background of Japanese Color Aesthetics: Pursuing the Special Qualities of Japan's Color Sensibility
Kohji Yoshimura (Kansai Gaidai University, Japan), Yuko Yamada (Color Instructor and Illustratou, Japan), Stephen Shrader (Notre Dame Seishin University, Japan)
- OS01-7 Improving Color Fidelity of Heritage Digital Copies through Representative Samples
Changyu Diao (Cultural Heritage Institute of Zhejiang University, China), Hong He (Zhejiang Institute of Metrology, China), Jinjin Mao (Cultural Heritage Institute of Zhejiang University, China), Zhemin Chen (Zhejiang Institute of Metrology, China)
- OS01-8 How a 6-band LED and RGB Camera based Multispectral Imaging System Performed in COSCH Round-Robin Test
Raju Shrestha (Oslo and Akerhus University College, Norway)

08:30-10:30 / Halla B Hall

OS02: Design & Communication I

- OS02-1,2 (Invited) Creating the viewing experience of color in design practice
Hyeon-Jeong Suk (Department of Industrial Design, KAIST, Korea)
- OS02-3 The Distribution of Color Tones in CIELAB Space
Huang Yu-Wen (Tatung University, Taiwan), Lee Wen-Yuan (Tatung University, Taiwan)
- OS02-4 Color Appearance in Oriental Minimalist Product Design
Yiju Chen (Yunlin University, Taiwan), Ching Liang Wang (Yunlin University, Taiwan)

- OS02-5 Gender and Cultural Effects on Consumer Colour-Purchase Decisions
Luwen Yu (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Xinxiong Liu (Huazhong University of Science and Technology, China)
- OS02-6 Comparison of Automotive Exterior Coating in Europe, Japan and South Korea according to Color and Texture Distribution by Gonio-photometric
Masayuki Osumi (Office Color Science Co., Ltd., Japan)
- OS02-7 Colours in Signage Typography – Commercial Street, Bangalore
Narayanan Krishnaswamy (BRBNMPL, India)
- OS02-8 Suggesting Improvement for the Provision of Transport Information: A Design Perspective
Gyeonghwa Lee (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Bryan Matthews (University of Leeds, United Kingdom), Vien Cheung (University of Leeds, United Kingdom)

08:30-10:30 / Samda Hall

OS03: Environment & Architecture I

- OS03-1 Developing a Method for Generating Colour Palette from Landscape Images
Jie Yang (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Kaida Xiao (University of Leeds, United Kingdom)
- OS03-3 A Comparative Study on the Color Planning of Landscape planning in South Korea
MinJung Seo (University of Tsukuba, Japan)
- OS03-4 Studies on Color in Residential Architecture for the Elderly
Ana Torres Barchino (UPV, Spain), Juan Serra Lluch (UPV, Spain), Jorge Llopis Verdú (UPV, Spain), Anna Delcampo Carda (UPV, Spain)
- OS03-5 Smart Cities colors: the new intelligent cities in Asia and the new intelligent cities in Europe. Why are they different in their colors in the architectural color design?
Ana Claudia Oliveira (CIAUD Portugal, Portugal)
- OS03-6 An Analysis of the Scandinavian Colour Scales as a Tool in Colour Design
Berit Bergström (NCS Colour AB, Sweden)
- OS03-7 The Study of Phycoerythrin as Natural Pink Protein
Bumho Yoo (HuGeX Co., Ltd., Korea), Chi-Hu Park (HuGeX Co., Ltd., Korea), Hyein Kim (BIO-FD&C Co., Ltd., Korea), Seung Hwan Ryu (BIO-FD&C Co., Ltd., Korea), Choonhee Yoon (BIO-FD&C Co., Ltd., Korea), Jiyeon Kim (BIO-FD&C Co., Ltd., Korea), Hyo Hyun Seo (BIO-FD&C Co., Ltd., Korea), Jeong Hun Lee (BIO-FD&C Co., Ltd., Korea), Atul Kulkarni (BIO-FD&C Co., Ltd., Korea), Young Jun Kim (PicoTera Co., Ltd., Korea), Chungwoon Univ., Korea), Jisoo Han (Sungshin Woman's Univ., Korea), Sang Hyun Moh (BIO-FD&C Co., Ltd., Korea)

Opening Ceremony & Keynote Speech I

10:50-12:30 / Tamra A Hall

Keynote Speech I: Suro Hwang, Institute of Korean Royal Silk Flower

Poster Papers

13:30-15:10 / Lobby, 3F

PS01: Art, Culture, Design, Communication, Environment

Oral Papers

15:10-17:10 / Halla A Hall

OS04: Art & Culture II

- OS04-1 Spectral Image Reconstruction of Chinese Ink and Wash Painting Based on Self-training with Multispectral Imaging
Peng Xu (Zhejiang Univ., China), Jueqin Qiu (Zhejiang Univ., China), Haisong Xu (Zhejiang Univ., China), Zhengnan Ye (Zhejiang Univ., China)
- OS04-2 A Study on Hangul and Obangjeongsae that appear on Hunminjeongeum
EunBae Moon (Chungwoon University, Korea)
- OS04-3 Colour Culture: An Introduction
Johnny Jie Xu (Loughborough University, United Kingdom), Xueqing Zhang (Tongji University, China)
- OS04-4 From White to Magenta
Ana Marija Grancaric (University of Zagreb, Croatia), Martinia Ira Glogar (University of Zagreb, Croatia), Lea Botteri (University of Zagreb, Croatia)
- OS04-5 Investigating Cultural Differences In Colour-Word Associations Using Internet Image Search
Yun Chen (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom), Qianqian an (University of Leeds, United Kingdom), Luwen Yu (University of Leeds, United Kingdom), Jie Yang (University of Leeds, United Kingdom)
- OS04-6 Color and its relation to the female figure in the cinema
Pedro Felipe Pinho Souza (Unicamp, Brazil), Anna Paula Silva Gouveia (Unicamp, Brazil)
- OS04-7 Using color-coding method to teach music for children
Yi-Ting Kuo (Jen-Teh Junior College of Medicine, Nursing and Management, Taiwan)
- OS04-8 The Pursuit of Perceived Density found in Colors Favored by Japan
Sungmi Oh (Joshibi University of Art and Design, Korea), Hyunjung Kim (Yonsei University, Korea)

15:10-17:10 / Halla B Hall

OS05: Design & Communication II

- OS05-1,2 (Invited) 2018-2019 Color & Material Trend
Se-Lee Lee (Ewha Womans University, Korea)
- OS05-3 Differences in Color Naming between British and American English Speakers
Dimitris Mylonas (University College London, United Kingdom), Lindsay W MacDonald (University College London, United Kingdom), Lewis D Griffin (University College London, United Kingdom)

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- OS05-4 Gender Differences in Russian Colour Naming
Yulia A. Griber (University of Smolensk, Russia), Galina V. Paramei (Liverpool Hope University, United Kingdom), Dimitris Mylonas (University College London, United Kingdom)
- OS05-5 Colours as Trademarks – Clarification and Limitations
Paul Green-Armytage (Curtin University, Australia)
- OS05-6 Turkish Colour Naming on the Net
Begüm Ulusoy (Atılım University, Turkey), Lewis D. Griffin (University College London, United Kingdom), Dimitris Mylonas (University College London, United Kingdom)
- OS05-7 Combination of Two Colours in Human Vision
Elodie Chandernagor (Art Consultant, Singapore)
- OS05-8 Colour Influence of Input Button on User's Pressing Motivation, Visual Attraction, and Preference - Analysis Using Paired Comparison
Yoshikazu Mizutani (Kyoto Institute of Technology, Japan), Saori Kitaguchi (Kyoto Institute of Technology, Japan), Tetsuya Sato (Kyoto Institute of Technology, Japan)

15:10-17:10 / Samda Hall

OS06: Environment & Architecture II

- OS06-1 Methodology for Color Planning in Urban Furniture – Laje, a case study
Margarida Maria Gamito (Portuguese Color Association - Faculty of Architecture_ University of Lisbon, Portugal), Joana Ribeiro Sousa (Faculty of Architecture - University of Lisbon, Portugal)
- OS06-2 Urban Color Expressing the Spirit of the City by Chinese color system
Jinghong WANG (China Central Academy of Fine Arts, China)
- OS06-3 Environmental Colour Design: A Survey on Colour in Urbanism and Architecture
Verena M Schindler (Independent Scholar, Switzerland)
- OS06-4 Urban Color Assessment Based on Spatial Perceive: A Case Study on Changzhou Xinbei District
Jiangbo Wang (Nanjing Technology University, China), Aiping Gou (Shanghai Institute of Technology, China)
- OS06-5 Can Color be a Bridge of Modern and Tradition --A Practice on Changzhou Xinbei Urban Color Plan
Aiping Gou (Shanghai Institute of Technology, China, Shanghai, China), Jiangbo Wang (Nanjing Technology University, China, Nanjing, China)
- OS06-6 Romanian Urban Collage: Colour-Architecture-Politics
Veronica Maria Zybaczynski (Ion Mincu University of Architecture and Urbanism, Romania)
- OS06-7 Colour Studies in the Urban Environment: Reviews, Summaries and Challenges
Beichen Yu (The University of Edinburgh, United Kingdom)

Keynote Speech II

09:00-10:00 / Halla A Hall

Keynote Speech II: *Jianming Song, China Academy of Art, China Fashion and Color Association*

Oral Papers

10:20-12:20 / Halla A Hall

OS07: Science & Technology I

OS07-1 Verification of MacAdam Data

Jing Liang (Zhejiang University, China), Ronnier Luo (Zhejiang University, China), Maria Georgoula (University of Leeds, United Kingdom), Gui hua Cui (Wenzhou University, China)

OS07-2 Camera Color Accuracy Evaluated via Metamer Mismatch Moments

Emitis Roshan (Simon Fraser University, Canada), Brian Funt (Simon Fraser University, Canada), Hamidreza Mirzaei (Simon Fraser University, Canada)

OS07-3 Image quality evaluation based on Sigmoid function by the modified Color Distribution Index (mCDI)

Hou-Chi Chiang (National Chiao-Tung University, Taiwan), Yuan Ouyang (Chang Gung University, Taiwan), Jyun-Wei Jhuang (National Chiao-Tung University, Taiwan), Ting-Wei Huang (National Chiao-Tung University, Taiwan), Yung-Jhe Yan (National Chiao-Tung University, Taiwan), Mang Ou-Yang (National Chiao-Tung University, Taiwan)

OS07-4 Fast Segmentation-based Tone Mapping Operator

Jakkarin Singnoo (University of the Thai Chamber of Commerce, Thailand)

OS07-5 BRDF Measurement and Color Appearance Simulation based on iccMAX Framework

Wei-Chun Hung (NTUST, Taiwan), Pei-Li Sun (NTUST, Taiwan)

OS07-6 Colour Vision Properties of Surface Colours based on complementary Optimal Colours

Klaus Richter (Berlin University of Technology, Germany)

OS07-7 A New Uniform Colour Space for Comprehensive Image Applications

Ming Ronnier Luo (Zhejiang University, United Kingdom), Muhammad Safdar (Zhejiang University, Pakistan), Youn Jin Kim (Huawei, China)

OS07-8 Preliminary Examination for Colorimetry of Removed & Re-transfused Blood and Skin of Hemodialysis Patients

Yuki Akizuki (University of Toyama, Japan), Futoshi Ohyama (Tokai University, Japan), Tomomi Iizuka (Tokai University, Japan), Tomoko Kutsuzawa (Tokai University, Japan)

10:20-12:20 / Halla B Hall

OS08: Environment & Architecture III

OS08-1 Teaching Color

Esther Hagenlocher (University of Oregon, USA)

OS08-2 Space | Color | Light - Teaching Color in Interior Architectural Design

Ralf Weber (Dresden University of Technology, Germany)

- OS08-3 Investigating colour in interior design education: an observational study about colour in the first design stages
Douha Attiah (King Abdulaziz University, Saudi Arabia), Abeer Alawad (King Abdulaziz University, Saudi Arabia), Vien Cheung (University of Leeds, United Kingdom)
- OS08-4 The Implication of Interpretive Inquiry for Empirical Studies on Color Meaning: A Symbolic Interactionist Approach to Color Perception in Healthcare
Jain Kwon (University of Georgia, USA)
- OS08-5 Research about preference of wallpaper in Japan and a Korean girl student
Tomoko Obama (Shizuoka University of Art and Culture, Japan), Nobuhoshi Kanai (Hoseo University, Korea)
- OS08-6 Why is History Related Colour Design so Complicated? The Factors Governing Colour Experience in a Historical Cityscape
Kati Winterhalter (Aalto University, Finland)
- OS08-7 Color Characteristics Analysis for the Color Development of Architectural Color Guide
Min-Gi Kim (KANGNAM JEVISCO CO., LTD, Korea), Joong-Ho Hwang (KANGNAM JEVISCO CO., LTD, Korea), Na-Ra Kim (KANGNAM JEVISCO CO., LTD, Korea), Hyo-Sun Choi (KANGNAM JEVISCO CO., LTD, Korea), You-Jin Choi (KANGNAM JEVISCO CO., LTD, Korea), Eun-Hee Han (KANGNAM JEVISCO CO., LTD, Korea)
- OS08-8 The Effect of Microorganisms Drench on the Leaf Color of Golf Course Grass –Targeting Jeju Ecoland-
JongHwan Song (GreenBio-Agro Company, Korea), Misuk Lee (GreenBio-Agro Company, Korea), SeongHee Moon (he Won Company, Ecoland Golf and Resort, Dept. of Course Management, Korea), YooSun Kim (Dept. of Environmental GreenDesign&Horticulture, Sahmyook University, Korea), SangEun Shin (Sahmyook Environmental GreenDesign Research Institute, Korea)

10:20-12:35 / Samda Hall

OS09: Color Application

- OS09-1 Colour Harmony in Clothing, Skin Tones and Hair Colours for Applications of Online Shopping
I-Han Liu (National Taiwan University of Science and Technolo, Taiwan), Li-Chen Ou (National Taiwan University of Science and Technolo, Taiwan)
- OS09-2 Developing a model for predicting whiteness of human face
Binghao Zhao (University Science and Technology Liaoning, China), Qianqian Pan (University of Leeds, United Kingdom), Zhifeng Wang (University of Science and Technology Liaoning, China), Yang Xu (University of Science and Technology Liaoning, China), Changjun Li (University of Science and Technology Liaoning, China), Stephen Westland (University of Leeds, United Kingdom), Kaida Xiao (University of Leeds, United Kingdom)
- OS09-3 Development of a Skin Color Evaluation Method Based on Hyperspectral Imaging Using Erythema and Melanin Indices
Mamiko Kikuchi (Kao Corporation, Japan), Takanori Igarashi (Kao Corporation, Japan), Hirayuki Sato (Kao Corporation, Japan), Tsutomu Fujimura (Kao Corporation, Japan)
- OS09-4 Investigation of facial attractiveness using a facial image database
Binghao Zhao (University of Science and Technology Liaoning, China), Qianqian Pan (University of Leeds, United Kingdom), Yang Xu (University of Science and Technology Liaoning, China), Zhifeng Wang (University of Science and Technology Liaoning, China), Changjun Li (University of Science and Technology Liaoning, China), Stephen Westland (University of Leeds, United Kingdom), Kaida Xiao (University of Leeds, United Kingdom)

- OS09-5 The Impact of Skin Colour on Facial Impressions
Mengmeng Wang (University of Leeds, United Kingdom), Ming Ronnier Luo (Zhejiang University, China), Kaida Xiao (University of Leeds, United Kingdom)
- OS09-6 Influence of Knowledge about Clothes and Sensation Modalities on Texture Evaluation of Beige Textile
Jing Liang (Zhejiang University, China), Ronnier Luo (Zhejiang University, China), Maria Georgoula (University of Leeds, United Kingdom), Gui hua Cui (Wenzhou University, China)
- OS09-7 The Relationship between the Scenario of Wedding Party and Wear Color
Hung Ruei-Ju (Tatung University, Taiwan), Sato Tetsuya (Kyoto Institute of Technology, Japan), Lee Wen-Yuan (Tatung University, Taiwan)
- OS09-8 Colour application comparison between luxurious and retail brand's window displays
Douha Attiah (King Abdulaziz University, Saudi Arabia), Hye-Won Lim (University of Leeds, United Kingdom)
- OS09-9 Description of The History of Chanel Lipstick Colour Through An Analysis Of Colour Charts
Jing Liang (Zhejiang University, China), Ronnier Luo (Zhejiang University, China), Maria Georgoula (University of Leeds, United Kingdom), Gui hua Cui (Wenzhou University, China)

Workshop II

13:00-15:00 / Halla A Hall

WS02: Korea-China Color Design Trend

Poster Papers

13:30-15:10 / Lobby, 3F

PS02: Education, Health, Architecture, Application

Study Group

15:10-17:10

Detailed Program: TBD

Oral Papers

09:00-10:30 / Halla A Hall

OS10: Science & Technology II

OS10-1,2 (Invited) Image Quality Assessment on Mobile Devices

Haisong Xu (Zhejiang University, China)

OS10-3 Improving Color Reproduction Accuracy and Color Gamut of Mobile Displays

Kirchner, E. (Color Research, Netherlands), Ivo van der Lans (Color Research, Netherlands), Esther Perales (University of Alicante, SPAIN), Francisco Martínez-Verdú (University of Alicante, SPAIN)

OS10-4 Rendering Color to Obtain Preferred Image Effects on Wide Gamut Displays

Rui Gong (Xidian University, China), Xiandou Zhang (Hangzhou Dianzi University, China), Qing Wang (Qilu University of Technology, China)

OS10-5 How to Extend a Colour Range and Keeping the Logic, Consistency and Accuracy

Per Jutterstrom (NCS Colour AB, Sweden)

OS10-6 Camera Color Accuracy Evaluated via Metamer Mismatch Moments

Emitis Roshan (Simon Fraser University, Canada), Brian Funt (Simon Fraser University, Canada), Hamidreza Mirzaei (Simon Fraser University, Canada)

OS10-7 Evaluation of Color Difference Based on EEG

Yaowu Liu (Wenzhou University, China), Guihua Cui (Wenzhou University, China), Jinjin Chu (Wenzhou University, China), Xiukai Ruan (Wenzhou University, China), Yaoju Zhang (Wenzhou University, China), Luiluo Jiang (Wenzhou University, China), Changjun Li (Wenzhou University, China), Min Huang (Beijing Institute of Graphic Communication, China), Manuel Melgosa (Universidad de Granada, SPAIN), Ming Ronnier Luo (University of Leeds, United Kingdom)

OS10-8 Study of Chromatic Adaptation via a Memory Colour Matching Method

Qiyang Zhai (State Key Laboratory of Modern Optical Instrumentation, Zhejiang University, Hangzhou, China), Kevin A. G. Smet (ESAT / Light & Lighting Laboratory, KU Leuven, Ghent, Belgium), Peter Hanselaer (ESAT / Light & Lighting Laboratory, KU Leuven, Ghent, Belgium), Ming Ronnier Luo (State Key Laboratory of Modern Optical Instrumentation, Zhejiang University, Hangzhou, China)

09:00-10:30 / Halla B Hall

OS11: Environment & Architecture IV

OS11-1 The Color of Aalto's White Walls

Virginia Cartwright (University of Oregon, USA)

OS11-2 Interior design color harmony experience through adjusted split-complementary color theory application

Joy Jee Yoon Lim (Colour Research Society of Canada, Canada)

OS11-3 The Adjustment of Color-Tunable LED Lighting for Residential Applications

Yandan Lin (Fudan University, China), Minchen Wei (The Hong Kong Polytechnic University, Hong Kong), Dandan Hou (Fudan University, China), Zixin Wen (Fudan University, China), Yan Lu (Fudan University, China)

- OS11-4 The Effect of Microbial Treatment on the Color of Foliage Plant *Aglaonema* Growing in a Room with a Small Amount of Light
Yoosun Kim (Sahmyook University, Korea), Sangeun Shin (Sahmyook Environmental GreenDesign Research Institute, Korea)
- OS11-6 Red on Red
Esther Hagenlocher (University of Oregon, USA), Landry Smith (Landry Smith Architects, USA)
- OS11-7 The Social Value of Use of Color as a Resource to Give Value to and Redevelop the Environment
Maasimo Caiazzo (IACC-IT, Italy), Jin Hee Lee (IACC-IT, Italy)

09:00-10:30 / Samda Hall

OS12: Color & Health I

- OS12-1,2 (Invited) Colour in Employment: A New Colour Grading System with Applications in Healthcare and Visually-Demanding Occupations
John Barbur (City University London, United Kingdom)
- OS12-3 Investigation of Interface Color Cognition on Health Industrial Websites
Shu-Ping Feng (Kao Yuan University, Taiwan), Hsueh-Fen Lin (Cheng Shiu University, Taiwan)
- OS12-4 Color as design elements for healthcare websites
Hye Jeong Park (Iowa State University, USA), Sunghyun Ryoo Kang (Iowa State University, USA)
- OS12-5 Color vision in normal eyes, diseased eyes and operated eyes
Kazim Hilmi OR (Private Office of Ophthalmology, Turkey)
- OS12-6 Color Change Analysis for Measuring Capillary Refilling Time
Masayoshi Shinozaki (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Takaaki Nakada (Chiba University, Japan), Hideaki Haneishi (Chiba University, Japan), Shigeto Oda (Chiba University, Japan)
- OS12-7 Does Illumination Affect Mobility of People with Low Vision?
Anukul Radsamrong (Dept. Imaging & Printing Tech., Faculty of Science, Chulalongkorn University, Bangkok, Thailand), Pichayada Katemake (Dept. Imaging & Printing Tech., Faculty of Science, Chulalongkorn University, Bangkok, Thailand), Éric Dinet (Université de Lyon, France), Alain Trémeau (Université de Lyon, France)
- OS12-8 Forensic aspect of color: Color perception of eye witnesses
Kazim Hilmi Or (Private Office in Ophthalmology, Turkey)

Oral Papers

10:50-12:20 / Halla A Hall

OS13: Science & Technology III

- OS13-1,2 (Invited) Melanopsin and Colour Vision
Linsay MacDonald (Engineering Sciences, University College London, United Kingdom)
- OS13-3 Tetra-chromatic super vision model: what's Peking robin seeing?
Hiroaki Kotera (Kotera Imaging Laboratory, Japan)

- OS13-4 New Models of Colour Appearance Scales: Saturation, Vividness, Blackness and Whiteness
Yoon Ji Cho (University of Leeds, Yonsei University, Korea), M Ronnier Luo (University of Leeds, Zhejiang University, United Kingdom), Li-Chen Ou (National Taiwan University of Science and Technology, Taiwan), Guihua Cui (Wenzhou University, China), Kwanghoon Sohn (Yonsei University, Korea)
- OS13-5 Influences on the Observer Variability with Different Viewing Conditions
Min Huang (Beijing Institute of Graphic Communication, China), Ruili He (Beijing Institute of Graphic Communication, China), Chunjie Shi (Beijing Institute of Graphic Communication, China), Yu Liu (Beijing Institute of Graphic Communication, China), Guihua Cui (Wenzhou University, China), Haoxue Liu (Beijing Institute of Graphic Communication, China), Ming Ronnier Luo (University of Leeds, United Kingdom), Manuel MELGOSA (Universidad de Granada, Spain)
- OS13-6 When are High Dynamic Range Imaging Reproductions Aesthetically Preferable to Colorimetric Accurate Images?
Keith Derek Martin Findlater (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom)
- OS13-7 International comparison of ageing effects on color similarity
Nana Itoh (National Institute of Advanced Industrial Science and Technology, Japan), Ken Sagawa (National Institute of Advanced Industrial Science and Technology, Japan)

10:50-12:20 / Halla B Hall

OS14: Psychology & Education I

- OS14-1,2 (Invited) The Possibilities and Limitations of the Psycho-behavioral Effects of Color
Shin'ya Takahashi (Tokaigakuen University, Japan)
- OS14-4 Factors Affecting Unique Hue Stimuli Selections Using Object Colors
Renzo Shamey (North Carolina State University, USA), Muhammad Zubair (North Carolina State University, USA), Rolf G Kuehni (North Carolina State University, USA)
- OS14-5 A Cross-Cultural Study of Colour Emotion and Colour Harmony
Nana Itoh (National Institute of Advanced Industrial Science and Technology, Japan), Ken Sagawa (National Institute of Advanced Industrial Science and Technology, Japan)

10:50-12:20 / Samda Hall

OS15: Color & Health II

- OS15-1,2 (Invited) Colour for Health: Update on the Latest Developments in Light Therapy
Anadi Martel (International Light Association (ILA), Belgium)
- OS15-3 Reading on Tablet: Effect of Background on Visual Fatigue
Suchitra Sueeprasan (Chulalongkorn University, Thailand), Praewpan Youyen (Chulalongkorn University, Thailand), Tetsuya Sato (Kyoto Institute of Technology, Japan)
- OS15-4 Preliminary study on evaluation of legibility and visual fatigue against luminescent text display based on physiological information
Daiki Saito (Saitama University, Japan), Keiichi Watanuki (Saitama University, Japan), Keiichi Muramatsu (Saitama University, Japan), Kazunori Kaede (Saitama University, Japan), Masutsugu Tasaki (ASAHI RUBBER INC., Japan), Takashi Kanahira (ASAHI RUBBER INC., Japan), Eiji Ishiguro (ASAHI RUBBER INC., Japan), Naoya Mashiko (ASAHI RUBBER INC., Japan)

OS15-5 Preliminary Study on Estimating Legibility and Visual Fatigue against LED Lightings by Deep Learning of Biological Information

Kenji Tajima (Saitama University, Japan), Tomohiro Nishikawa (Saitama University, Japan), Daiki Saito (Saitama University, Japan), Keiichi Watanuki (Saitama University, Japan), Keiichi Muramatsu (Saitama University, Japan), Kazunori Kaede (Saitama University, Japan), Masutsugu Tasaki (ASAHI RUBBER INC., Japan), Takashi Kanahira (ASAHI RUBBER INC., Japan), Eiji Ishiguro (ASAHI RUBBER INC., Japan), Naoya Mashiko (ASAHI RUBBER INC., Japan)

OS15-6 Impression and Clarity of Bathroom Lighting

Suchitra Sueeprasan (Chulalongkorn University, Thailand), Natchanun Ekpothor (Chulalongkorn University, Thailand), Roongnapa Sakonkharuehadet (Chulalongkorn University, Thailand), Warisa Ouimak (Chulalongkorn University, Thailand)

Award Lecture I

09:00-09:45 / Halla A Hall

2017 AIC Deane B. Judd Award : Holy-grail of colour science

Ming Ronnier Luo (United Kingdom)

Oral Papers

10:05-12:05 / Halla A Hall

OS16: Science & Technology IV

OS16-1,2 (Invited) Applications of CIE2015 Cone-Fundamental Based Colorimetry

Hirohisa Yaguchi (Chiba University, Japan)

OS16-3 Comparison of Object-Color and Illuminant Metamerism for Digital Image Color Correction

Jueqin Qiu (Zhejiang University, China), Haisong Xu (Zhejiang University, China), Peng Xu (Zhejiang University, China)

OS16-4 Root-Polynomial Color Homography Color Correction

Han Gong (University of East Anglia, United Kingdom), Graham D. Finlayson (University of East Anglia, United Kingdom)

OS16-5 Colour Correction Toolbox

Fufu Fang (University of East Anglia, United Kingdom), Han Gong (University of East Anglia, United Kingdom), Michal Mackiewicz (University of East Anglia, United Kingdom), Graham Finlayson (University of East Anglia, United Kingdom)

OS16-6 Maximum Ignorance Polynomial Colour Correction

Fufu Fang (University of East Anglia, United Kingdom), Graham Finlayson (University of East Anglia, United Kingdom)

OS16-7 Color Transfer for Harmony with a Target Color

Eunjin Kim (KAIST, Korea), Hyeon-Jeong Suk (KAIST, Korea)

OS16-8 Coloured Shadows - Why They Can Be Photographed

Cecilia Sik-Lanyi (University of Pannonia, Hungary), Veronika Szücs (University of Pannonia, Hungary), Robert Hirschler (SENAI/CETIQT, Brazil)

10:05-12:05 / Halla B Hall

OS17: Color & Health III

OS17-1,2 (Invited) A Modern Approach to Health in Conventional Chinese Color Thought

Tien Rein Lee (Chinese Culture University, China)

OS17-3 What are the Colours of Health and Sickness?

Ivar Jung (Linnaeus University, Sweden), Yulia A. Griber (University of Smolensk, Russia), Jeannette Hanenburg (Colour Professionals, Belgium)

OS17-4 The Importance of Colour in Human Life

Edda Mally (IACC, Austria), Jin Hee Lee (IACC, Italy)

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- OS17-5 Consciousness and Preference on Healthcare Color Environment by Generation
Heykyung Park (Inje University, Korea)
- OS17-6 Colour Profiling - A Blueprint for Health and Wellbeing
Mark Wentworth (Colour for Life, United Kingdom)
- OS17-7 Evaluation of the alerting effects of short-wavelength (blue) and broadband wavelength (green) lights on human during late evening using EEG
Jing Lin (Leeds University, United Kingdom), Stephen Westland (Leeds University, United Kingdom)

10:05-12:05 / Samda Hall

OS18: Color & Light I

- OS18-1,2 (Invited) Regulating Artificial Light at Night for Protecting Health and Sustainability in South Korea
Jeong-Tai Kim (Kyung Hee University, Korea)
- OS18-3 Modelling Atmosphere Perceptions of Dynamic Coloured Lightings
Qiyang Zhai (Zhejiang University, China), Bing Li (Zhejiang University, China), J. B. Hutchings (Leeds University, United Kingdom), Fangtian Ying (Zhejiang University, China), Ming Ronnier Luo (Zhejiang University, China)
- OS18-4 Effect of Duv on Color Rendering Properties of Light Sources
Fuzheng Zhang (Zhejiang University, China), Haisong Xu (Zhejiang University, China)
- OS18-5 Lighting Ambient Effect on Saturation of Durian and Sensation
Supawadee Theerathamakorn (Chulalongkorn University, Thailand), Aran Hansuebsai (Chulalongkorn University, Thailand), Yasushi Hoshino (Tokyo Denki University, Japan)
- OS18-6 Analysis on Color Break-Up Effect of Time-Modulated Full Color LED Lighting during Saccadic Eye Movement
Deok-Weon Song (Yeungnam University, Korea), HyeRan Kang (Yeungnam University, Korea), JeongHun Kim (Yeungnam University, Korea), Ji-Hwan Lee (Yeungnam University, Korea), Chan-Su Lee (Yeungnam University, Korea)
- OS18-7 Mutual Illumination and Color Constancy
Pichayda Katemake (Chulalongkorn University, Thailand), Rada Deeb (Université de Lyon, France), Damien Muselet (Université de Lyon, France), Mathieu Hebert (Université de Lyon, France), Alain Trémeau (Université de Lyon, France)
- OS18-8 Light on Paper – Study on Origami and Shadows
Sara Antunes Costa (University of Lisbon, Portugal), Mario S. Ming Kong (University of Lisbon, Portugal)

Poster Papers

13:30-15:10 / Lobby, 3F

PS03: Psychology, Light, Science & Technology

Oral Papers

15:10-17:10 / Halla A Hall

OS19: Science & Technology V

- OS19-1 The Importance of Lightness in Perceived Color Difference of Black Yarns
Razieh Jafari (Institute for Color Science and Technology, Iran), Mahdi Safi (Institute for Color Science and Technology, Iran)
- OS19-2 Color Measurement and Image Simulation of Dyes and Pigments Aged by Sunlight
Atsushi Moriwaki (Yokohama National University, Japan), Katsunori Okajima (Yokohama National University, Japan)
- OS19-3 Cosmetic Surgery Simulations-based Preference Study
Muhammad Farhan Mughal (Zhejiang University, China), Mengmeng Wang (University of Leeds, United Kingdom), Ming Ronnier Luo (Zhejiang University, China)
- OS19-4 Analysis of Relationship between Hair Colors and Personalities of Character Illustrations and Its Application
Motonori Doi (Osaka Electro-Communication University, Japan), Hideki Sakai (Osaka City University, Japan), Masashi Komori (Osaka Electro-Communication University, Japan)
- OS19-5 Matching Reference Colours in 3D Reproduction of Fine-art Paintings
Lindsay MacDonald (University College London, United Kingdom), Mike Jackson (Arius Technology Inc, Canada)
- OS19-6 Image Clarity-New Technology to Perfect Optical Properties of Surfaces
Hideo Kita (Suga test instruments Co., Ltd., Japan), Shigeo Suga (Suga test instruments Co., Ltd., Japan), Satoshi Tanaka (Suga test instruments Co., Ltd., Japan), Jack A. Ladson (Color Science Consultancy, USA)

15:10-17:10 / Halla B Hall

OS20: Psychology & Education II

- OS20-1 Description of Three-Color Combination Preferences, their Reasons, and Features: To Create a Visual Color Design Aid
Kiwamu Maki (Jissen Women's University, Japan)
- OS20-2 Assessing the Performance of Quest Algorithms in Visual Experiments for Blur Discrimination Thresholds
Yue Yuan(Beijing Institute of Technology, China), Qingmei Huang (Beijing Institute of Technology, China), Yanli Jiang (Beijing Institute of Technology, China)
- OS20-3 Color Teaching aids in Chinese contemporary institutions: Design, production and promotion
Yuhang Jing (China Academy of Art, China)
- OS20-4 Gray Color Sensibility Image and Preference in Textile
YuJin Choi (Hongik University, Korea), YounJin Lee (Hongik University, Korea)
- OS20-5 Knowing the City Through the Game of Color
Samira Kadamani (University of Los Andes, Colombia), Sebastian Camilo Cabal (University of Los Andes, Colombia)
- OS20-6 Influence to Visual Attractiveness of 3 x 3 Entire Pattern by Positions of Two Colored Panels
Keizo Shinomori (Kochi University of Technology, Japan), Ryota Nakaya (Kochi University of Technology, Japan), Ippei Negishi (Kanazawa Institute of Technology, Japan)

- OS20-7 The Country of Appearances: A Cultural History of Fashion and Textile Design through Colour in Mexico — 1877 to 1927—
Nallely Rangel (Universidad Nacional Autónoma de México, México)

14:55-17:10 / Samda Hall

OS21: Color & Light II

- OS21-1,2 (Invited) CIE Research Strategy – Future of Color Quality Metrics for Lighting
Yoshihiro Ohno (National Institute of Standards and Technology, USA)
- OS21-3 Phosphor-Converted Light-Emitting Diodes of Preferential Color Properties
Akvilė Zabiliūtė-Karaliūnė (Vilnius University Institute of Applied Research, Lithuania), Henrikas Dapkus (Vilnius University Institute of Applied Research, Lithuania), Pranciškus Vitta (Vilnius University Institute of Applied Research, Lithuania), Andrius Petrulis (Vilnius University Institute of Applied Research, Lithuania), Artūras Žukauskas (Vilnius University Institute of Applied Research, Lithuania)
- OS21-4 The Modeling of the comfort for LED Interior Lighting Based on The Chromaticity Coordinates
Qing Wang (Qilu University of Technology, China), Haisong Xu (Zhejiang University, China), Rui Gong (Xidian University, China), Fenghua Li (Shandong University of Art and Design, China)
- OS21-5 IoT & Python based Measurement and Analysis of Lighting Color temperature and Illuminance for Human-centric Lighting Control
Youjin Kim (ETRI, Korea), Hyunseok Kim (ETRI, Korea), Jihun Jeon (ETRI, Korea), Tae Gyu Kang (ETRI, Korea)
- OS21-6 How the Colour Fidelity and Gamut of Lightings Affect the Preference of Paintings?
Qiyang Zhai (Zhejiang University, China), Ming Ronnier Luo (Zhejiang University, China), Ching-Ju Chou (National Taiwan University of Science and Technology, Taiwan), Hung-Shing Chen (National Taiwan University of Science and Technology, Taiwan)
- OS21-7 Chromatic and spectral quality of lighting for self-dependent elderly people well-being: a case study
Maurizio Rossi (Politecnico di Milano, Italy), Daria Casciani (Politecnico di Milano, Italy), Fulvio Musante (Politecnico di Milano, Italy)
- OS21-8 Effect of Illuminance and Colour of Light Source on Assessing Tooth Whiteness
Qianqian Pan (University of Leeds, United Kingdom), Stephen Westland (University of Leeds, United Kingdom)
- OS21-9 Preferable lighting conditions for migraineurs and non-migraineurs in working spaces
Akari Kagimoto (Yokohama National University, Japan), Katsunori Okajima (Yokohama National University, Japan), Shino Okuda (Doshisha Women's College of Liberal Arts, Japan), Muneto Tatsumoto (Dokkyo Medical University, Japan), Koichi Hirata (Dokkyo Medical University, Japan)

Award Lecture II

09:00-09:45 / Halla A Hall

2017 AIC Colour Award in Art, Design and Environment : Interaction of Art and Science in Colour Environment Design

Antal Nemcsics (Hungary)

Oral Papers

10:05-12:05 / Halla A Hall

OS22: Science & Technology VI

- OS22-1 Evaluation of Whiteness Formulas for FWA and Non-FWA Whites
Yuzhao Wang (Zhejiang University, China), Minchen Wei (The Hong Kong Polytechnic University, Hong Kong), Ming Ronnier Luo (Zhejiang University; University of Leeds, United Kingdom)
- OS22-2 Characterization of Whiteness Appearance for FWA-enhanced White
Ming Ronnier Luo (Zhejiang University, China), Yuzhao Wang (Zhejiang University, China), Shining Ma (Zhejiang University, China), Minchen Wei (Hong Kong Polytechnic University, China)
- OS22-3 Application of Colour Histogram of Feature Segmentation to Modelling of Glints in Metallic Coatings
Min-Ho Jung (Leeds University, United Kingdom), Vien Chung (Leeds University, United Kingdom), Peter A Rhodes (Leeds University, United Kingdom)
- OS22-4 Investigation of the Simultaneous Colour Contrast Effect
Yuechen Zhu (Zhejiang University, China), Qiyan Zhai (Zhejiang University, China), Ming Ronnier Luo (Zhejiang University, China)
- OS22-5 Investigation of Flop Index by Variation in Size of Aluminum Flake and its Relation with the Surface Texture Quantified by Edge Frequency Method
Sakineh Amookht (AmirKabir University of Technology, Iran), Saeideh Gorji Kandi (AmirKabir University of Technology, Iran)
- OS22-6 Perception of Metallic Materials by Projecting Solid Color on Nonmetallic Materials
Midori Tanaka (Chiba University, Japan), Takahiko Horiuchi (Chiba University, Japan)
- OS22-7 Multi-angle Reflectance Setup (MARS) for Characterizing Goniochromatic Materials and Sparkle
Nina Basic (METAS, Switzerland), Florian Stuker (METAS, Switzerland), Peter Blattner (METAS, Switzerland)
- OS22-8 Comparison on 1/1 Standard Color Depth of Three Main Standards
Hongying Yang (Zhongyuan University of Technology, China), Zhihui Yang (Zhongyuan University of Technology, China), Wanzi Xie (Zhongyuan University of Technology, China), Jingjing Zhang (Zhongyuan University of Technology, China), Qing Wang (Zhongyuan University of Technology, China)

10:05-12:05 / Halla B Hall

OS23: Psychology & Education III

- OS23-1 Towards Industrial and Academic Standards to Promote and Attest Color Knowledge
Tien-Ren Lee (Chinese Culture University, Taiwan), Wang-I Chen (Industrial Technology Research Institute, Taiwan), Pei-Li Sun (Taiwan University of Science and Technology, Taiwan), Tsuei-Ju Hsieh (Chinese Culture University, Taiwan)
- OS23-2 Overview of Colour Education in Brazilian Universities: a Focus on Design Courses in the State of São Paulo
Paula Csillag (ESPM, Brazil), Ana Lucia Lupinacci (ESPM, Brazil), Robert Hirschler (SENAI/CETIQT, Brazil)
- OS23-3 Chromology: Transdisciplinary Proposal of a New Science of Color Born from Pedagogical Experiences
Manyé Pablo (Universidade Regional do Cariri-URCA, and Universidade de São Paulo-USP, Brazil)
- OS23-4 The Effect of Chromatic and Achromatic Color Schemes on Children's Emotions in a Preschool Classroom
Dalirnaghadeh, D., Nilgün Olguntürk (Bilkent University, Turkey)
- OS23-5 Color, Emotion and Behavioral Intentions in City Hotel Guestrooms
Selin Yar, Nilgün Olguntürk (Bilkent University, Turkey)
- OS23-6 Mindfulness Zen meditation makes less cognitive conflict in the prefrontal brain under the Stroop color interference
Naoyuki Osaka (Kyoto University, Japan), Osaka University & Neural Networks (CiNet), Japan), Takehiro Minamoto (Osaka University & Neural Networks (CiNet), Japan), Ken Yaoi (Kyoto University, Japan), Miyuki Azuma (Osaka University & Neural Networks (CiNet), Japan), Mariko (Osaka University & Neural Networks (CiNet), Japan)

10:05-12:05 / Samda Hall

OS24: Color & Health IV

- OS24-1 Application of Sumac With Natural Pigments in Producing Essential Oils Color and Protection of Foods
Forouzandeh Ghasemi (Alzahra University, Iran)
- OS24-3 Association Analysis of Tongue Color Spatial Distribution and Physiological Index based on Tongue Shape Normalization
Kazunari Murai (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Akira Morita (Chiba University, Japan), Takao Namiki (Chiba University, Japan)
- OS24-4 Evaluation of Color Conversion Accuracy using Tongue Color Chart
Yudai Ota (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Masami Shishikura (DIC Corporation, Japan), Koichi Sakaue (Takano Co., Ltd., Japan), Akira Morita (Chiba University, Japan), Tadaaki Kawanabe (Kitasato University, Japan), Takao Namiki (Chiba University, Japan), Yoichi Miyake (Tokyo Polytechnic University, Japan)
- OS24-5 Improving Intraoperative Color Appearance of Organ using Spectrally Tunable Light Source
Yoko Kurabuchi (Chiba University, Japan), Takashi Ohnishi (Chiba University, Japan), Toshiya Nakaguchi (Chiba University, Japan), Hideaki Haneishi (Chiba University, Japan)
- OS24-6 Iris of Fashion: Method to Create an Identity in Fashion Design
Nallely Rangel (MOSEUA, Colour Laboratory for Costume, Fashion and Textile, México)

Closing Ceremony

12:10-12:40 / Tamra A Hall