

7th Asia Color Association Conference (ACA 2022 Taipei)

Final Program

Time (UTC+8)	October 20 (Thu.)	
9:00	Opening Ceremony	
9:10 – 9:50	Keynote 1 <i>Explore the Color in VR: from Chalkroom to Samsara</i> Prof. Hsin-Chien Huang	
9:50	Short Break	
10:00 – 10:40	Keynote 2 <i>Challenges and Opportunities in Color Science Introduced by Metaverse</i> Dr. Min-Chen Wei	
10:40	Short Break	
10:50 – 11:50	Oral Session 1 <i>Color Vision</i>	Oral Session 2 <i>Color in Art & Design</i>
11:50 – 13:30	Long Break	
13:30 – 14:45	Oral Session 3 <i>Color Management</i>	Oral Session 4 <i>Color & Culture</i>
14:45 – 15:00	Short Break	
15:00 – 16:40	Special Session: Color for future <i>Transforming Cultural Relics into Interactive Multimedia through Color Design</i> Tony Liu (Bright Ideas Design)	
	<i>Unlock the Potential of the Eyes as the Ultimate Interface with Metaverse</i> Shao-Yi Chien (Canzin Technology)	
	<i>Color Reproduction Technology for Art Collection Market</i> Jennifer Chen (Zhenyin Art)	
	<i>PerectCorp AR: Virtual Try On for Makeover, Eyewear and Jewelry</i> Johnny Tseng (Cyberlink/Perfect Corp.)	
	<i>AQCOLOR Technology</i> Chris Bai (BenQ Corporation)	

Time (UTC+8)	October 21 (Fri.)		
9:00 – 9:40	Keynote 3 <i>Interactive Color Tools for Creativity and AI</i> Dr. Masha Shugrina		
9:40 – 10:10	Keynote 4 <i>Color in Restoration and Conservation Work of Art</i> , Dr. Pichayada Katemake		
10:10	Short Break		
10:20 – 11:00	Keynote 5 <i>Color and Texture in 3D</i> Prof. Tzung-Han Lin		
11:00	Short Break		
11:10 – 12:10	Oral Session 5 <i>Color Psychology</i>	Oral Session 6 <i>Color Technology</i>	
12:10 – 13:30	Long Break		
13:30 – 14:30	Oral Session 7 <i>Color Education & Color Therapy</i>		
14:30 – 14:50	Short Break		
14:50 – 16:30	Poster Session 1 <i>Color Vision</i>	Poster Session 2 <i>Color Application</i>	Poster Session 3 <i>Color Technology</i>
16:30 – 16:40	Closing Ceremony		

	Track A
	Track B
	Track C

Day 1 - October 20 (Thu.)

Opening Ceremony (9:00-9:10, Track A)

General Chair: Tien-Rein Lee

Keynotes (9:10-10:40, Track A)

Chair: Tien-Rein Lee

K1	Explore the Color in VR: from Chalkroom to Samsara	Hsin-Chien Huang (Storynest Narrative Lab, TW)
Short Break (9:50-10:00)		
K2	Challenges and Opportunities in Color Science Introduced by Metaverse	Min-Chen Wei (The Hong Kong Polytechnic University, HK)

1. Color Vision (10:50-11:50, Track A)

Chair: Yoko Mizokami and Hung-Shing Chen

S1-1	Perceptual Color Difference and Categorical Color Perception of Color Vision Deficiency with Color Correcting Glasses	Yuka Onozaki, Hiromi Sato and Yoko Mizokami (JP)
S1-2	Color Dependency of the Pupillary Light Reflex Caused by Light Stimulation to the Blind	Marina Saito, Kentaro Miyamoto and Ikuya Murakami (JP)
S1-3	Testing Lightness Constancy in a Virtual Environment Presented by a Head-mounted Display (HMD)	Ichiro Kuriki, Kazuki Sato and Satoshi Shioiri (JP)
S1-4	Colour Appearance under Complex Illumination Conditions in a Virtual Environment	Li-Chen Ou and Ching-Ching Wu (TW)

2. Color in Art & Design (10:50-11:50, Track B)

Chair: I-Ping Chen

S2-1	Measurement of the Contrast Impact of Patterned Blouse and Single-Color Skirt Combination	Miyoshi Ayama, Tomoharu Ishikawa, Tetsuma Sugimoto, Shiho Murakami and Shino Okuda (JP)
S2-2	Towards Color Extraction Methods in Color Planning Design for Place Branding	Tsuei-Ju Hsieh, Yi-Jung Chien, Yu-Chen Cheng, Ru-Jun Sun, Yao-Qi Wang (TW)
S2-3	A Pilot Study on the Color Recognition of Mobile Payment on User Interface	Cai-Syuan Lin and Wen-Yuan Lee (TW)

Long Break (11:50-13:30)

3. Color Management (13:30-14:45, Track A)

Chair: James Shyu and Yu-Ping Lan

S3-1	Chicken Comb Color Calibration Checker Designed for Monitoring in Poultry House	Tingyu Wei, Tsung-Lin Lu and Tzung-Han Lin (TW)
S3-2	Lighting Simulation of Non-contact 2D Color and Gloss Measuring System Using Dome Illumination	Ayumu Kinugawa, Hiroyuki Iyota, Shimpei Fukagawa, Hayato Masuda and Hideki Sakai (JP)
S3-3	Reflected Glare Measurement of Object Colors Using a 2D Image Sensor	Shao Tang Hung, Hung Shing Chen, Pei Li Sun, Jui Chang Chiang and Bao Jen Pong (TW)
S3-4	A Method of Applying Incomplete Chromatic Adaptation in Colour Management	Phil Green (NO)
S3-5	The Level of Industry Preference Related to the Sensory Quality Evaluation on Color Infusion of Black Tea and Green Tea	Megita Ryanjani Tanuputri, Adi Djoko Guritno and Novita Erma Kristanti (ID)

4. Color & Culture (13:30-14:45, Track B)

Chair: Li-Chen Ou

S4-1	Differences in Color Recognition and Color Names by Chinese Characters between China and Japan	Akira Asano, Michiko Nakamura and Chie Muraki Asano (JP)
S4-2	Characteristics of Color Terms Underlying the Contemporary Japanese Aesthetic Senses	Kohji Yoshimura, Yuko Yamada and Stephen Shrader (JP)
S4-3	Acceptability Colour Ranges and Taste Expectations of Thai Milk Tea	Suchitra Sueeprasan, Kochaporn Supasiriate and Tisawan Chomfuangkaew (TH)
S4-4	A Study on Color Combination of Taiwan National Craft Brand	Yu-Zhen Wu and Chi-Seng Hung (TW)
S4-5	Color Tracking During Tea Processing: From Withering to Serving Process	Shafira Wuryandani, Nafis Khuriyati and Anggoro Cahyo Sukartiko (ID)

Short Break (14:45-15:00)

Special Session: Color for Future (15:00-16:40, Track A)

Chair: Tsuei-Ju Hsieh

1	Transforming Cultural Relics into Interactive Multimedia through Color Design	Tony Liu (Bright Ideas Design)
2	Unlock the Potential of the Eyes as the Ultimate Interface with Metaverse	Shao-Yi Chien (Canzin Technology)
3	Color Reproduction Technology for Art Collection Market	Jennifer Chen (Zhenyin Art)
4	PerectCorp AR: Virtual Try On for Makeover, Eyewear and Jewelry	Johnny Tseng (Cyberlink/Perfect Corp.)
5	AQCOLOR Technology	Chris Bai (BenQ Corporation)

Day 2 - October 21 (Fri.)

Keynotes (9:00-11:00, Track A)

Chair: Tien-Rein Lee

K3	Interactive Color Tools for Creativity and AI	Masha Shugrina (NVIDIA Toronto AI Lab, CA)
K4	Color in Restoration and Conservation Work of Art	Pichayada Katemake (Chulalongkorn University, TH)
Short Break (10:10-10:20)		
K5	Color and Texture in 3D	Tzung-Han Lin (National Taiwan University of Science and Technology, TW)

5. Color Psychology (11:10-12:10, Track A)

Chair: Miyoshi Ayama

S5-1	Perception of Facial Brightness for Melanin and Hemoglobin changes	Takahisa Kitano, Hiromi Sato and Yoko Mizokami (JP)
S5-2	Expression of Impression Words with Color	Tadayuki Wakata, Kensuke Nojiri and Nana Kudo (JP)
S5-3	Using Coloured Paper to Increase Memory Retention: A study on Chroma	Suchitra Sueeprasan and Ormchai Bugsabong (TH)
S5-4	An Experimental Research on Color Afterimage	Ching Wei Peng, Vincent Sun and Ming Chuan Fu (TW)

6. Color Technology (11:10-12:10, Track B)

Chair: Mei-Chun Lo

S6-1	Automatic Colorization of Grayscale Landscape Images based on Convolutional Neural Network	Jie-Sen Wang and Pei-Li Sun (TW)
S6-2	Research of Pseudo Color Rendering for Infrared Images	Cheng-Chuan Hsu, Yi-Ting Huang, Yung-Jhe Yan, Meng-Hsin Hsiao and Mang Ou-Yang (TW)
S6-3	Machine Learning Techniques for Classifying Rice Grain	Areerat Pathomchaiwal, Amarin Wongsetti and Saravudh Varasumanta (TH)
S6-4	Optimization of the Tea Leaf Fermentation Process Related to the Color of the Black Tea	Rosa Amalia, Rendayu Jonda Neisyafitri and Adi Djoko Guritno (ID)

Long Break (12:10-13:30)

7. Color Education & Color Therapy (13:30-14:30, Track A)

Chair: Yu-Ching Chen

S7-1	Development and Evaluation of a Color Scheme Training Application for Digital Devices in Color Education	Daisuke Kasai, Takaki Orito, Aya Ono and Shigeomi Koshimizua (JP)
S7-2	Design of Color Education Programs for Understanding Diversity of Color Vision	Tsukasa Muraya, Hikari Hamasaki, Momoka Nagatomi, Reina Chikara, Takuya Harada and Shoji Sunaga (JP)
S7-3	The Effect of Using Immersive Virtual Reality on Color Learning	Yu-ching Chen and Tsuei-Ju Hsieh (TW)
S7-4	Effect of quality of natural color and ingredients on Anthroposophy Art therapy	Nam-oi Saihoo (TH)

Short Break (14:30-14:50)

Poster Session 1. Color Vision (14:50-16:30, Track A)

Chair: Ichiro Kuriki and Suchitra Sueeprasan

P1-1	Investigation of Visual Color Perception in Cosmetics Using Standard Light Sources	Hung-Chung Li, Zhi-Jia Yang, Chun-Ya Yang, Ting-Yu Chao, Ting-Ning Yang, and ShihCing Li (TW)
P1-2	Effects of Dynamic Light on Slow-wave Sleep and Memory	Yi-Sheng Chen, Hung-Wei Chen, Yu-Sheng Chen, Ya-Chuan Huang, Chien-Ming Yang, and Chien-Yu Chen (TW)
P1-3	Initial Study of the Effects of Chromatic Light with Controlled Spectral Distribution on Creativity and Alertness	Takuma Hashimoto, Masatoshi Ishigane, Kota Shiono and Hiroshi Takahashi (JP)
P1-4	Establish 3-D Perceived Warmth Map of the Munsell Color System	Mutzu Kuo and Hung-Shing Chen (TW)
P1-5	The Effects of Wearing Special Glasses that Attenuate Light with Wavelengths Around 585 nm on Color Perception	Megumi Nishikawa and Akiyoshi Kitaoka (JP)
P1-6	Color Matching Experiment for Moving Point Light Source	Riho Ogawa, Midori Tanaka and Takahiko Horiuchi (JP)
P1-7	Color-Sound Crossmodal Interaction using Stroop-like Paradigm	Kenta Miyamoto, Yuma Taniyama, Kyoko Hine and Shigeki Nakauchi (JP)
P1-8	Relationship Between Brightness Perception and Photoreceptor Stimulations Including Melanopsin	Aoi Takasu and Sei-Ichi Tsujimura (JP)
P1-9	A Study on Color Sorting by using the Farnsworth Munsell 100 Hue Test	Stanzin Wangmo and Cheng-Min Tsai (TW)
P1-10	The Relationship between the Steady-state Pupil Response and Brightness Sensitivity Obtained by Direct Heterochromatic Brightness Matching Based on Melanopsin Stimulation	Tomoe Ito and Sei-Ichi Tsujimura (JP)
P1-11	Perceptual Alternation in Colored Switching Glare Illusion	Risa Yamagata and Kazuho Fukuda (JP)

Poster Session 2. Color Application (14:50-16:30, Track B)

Chair: Chanprapha Phuangsuan and Tsuei-Ju Hsieh

P2-1	Liberation of Color: The Color Theory of Kandinsky	Feiman Chang (TW)
P2-2	Exploring the Color Harmony of Digital Photography Works Based on Color Language Theory: A Case Study of Finalists' Works in the 2022 Taiwan Photo Contest	Yu-Chun Yao and Shiu-Hua Wu (TW)
P2-3	The Case Study of Background Colors for Organic Rice Production Media	Supannika Yongsue and Kamron Yongsue
P2-4	The Effects of Font-Color Combination on Consumer Perception of Products Packaging	Yu-Hsiang Chiu and Tsuei-Ju Hsieh (TW)
P2-5	Creating Interactive Media to Train Short-term Memory Skills in Children with Down Syndrome	Chirapong Yanuchit, Natakorn Kongthong and Pasavee Liewudomsinchai (TH)
P2-6	The Effect of Background Color on Sushi Advertisement Attitudes and Preference on Facebook	Natchaphak Meeusah, Chanida Saksirikosol, Kitirochna Rattanakasamsuk and Chanprapha Phuangsuan (TH)
P2-7	Color Analysis of Botanical Printing with Teak Leaves in Wool Fabric	Hsiu-Hua Hsieh and Cheng-Min Tsai (TW)
P2-8	A Comparison between the Perception of the Virtual Tour Media on the Internet Network and the Real Site Visit in Academic Place	Thanaphumi Songthanapithak and Nawapat Karaket (TH)
P2-9	Thai Flower Aroma and Basic Color Name	Chanida Saksirikosol, Chanprapha Phuangsuan and Kitirochna Rattanakasamsuk (TH)
P2-10	A Pilot Study on the Relationship between Avatar Appearance and Personality Traits	Hsuan-Hsaun Chen and Wen-Yuan Lee (TW)

Poster Session 3. Color Technology (14:50-16:30, Track C)

Chair: Pei-Li Sun

P3-1	Color Materials used in Toyohara Kunichika's Japanese Woodblock Print Painting (Ukiyo-e) and its Deterioration	Satoko Taguchi, Shino Okuda and Katsunori Okajima (JP)
P3-2	Color Characteristics of the High-Dynamic Range Micro-Imaging System	Bao-Jen Pong, Shao-Tang Hung, Li-Wei Wen and Chao-Hua Wen (TW)
P3-3	Detecting and Following an Indoor Targeted Subject with Devised Flattery	Mei-Chun Lo, Jin-Ling Lin and Yi-Chin Chen (TW)
P3-4	A Study of Wet-to-Dry Variation with ISO International Standard.	Cheng-Jung Lin, Meng-Tsung Tai and Jia-Shan Wu (TW)
P3-5	Factors Affecting Accuracy of Camera-based Color Measurement using a Reference Color Chart	Kai-June Xu, Pei-Li Sun, Raymond Chiang and Fu-Ling Chang (TW)
P3-6	A Print Quality Study of ISO 15339 Implementation	Meng-Tsung Tai (TW)
P3-7	Enhance Color Density and Digital Watermark Gradation with Multi-Level Intaglio	Raymond Chiang and Pei-Li Sun (TW)
P3-8	Non-Destructive Determination of Photosynthetic Pigments in Leaves based on Color Mixture Theory	Yuan-Tzu Ou-Yang (TW)

Closing Ceremony (16:30-16:40, Track A)

General Chair: Tien-Rein Lee