

The 1st International Symposium for Color Science and Art 2019

The Interaction between Technology and Art on Color

Organizer:

Tokyo Polytechnic University (TPU) “Research Center for Color Science and Art”

Academic Supporting Organizations:

The Japanese Society of Printing Science and Technology, The Imaging Society of Japan, The Institute of Image Electronics Engineers of Japan, The Color Science Association of Japan, The Society of Photography and Imaging of Japan, and The Japan Society for Arts and History of Photography

Date: 2019 March 15 (Fri) 10:00–16:50

Place: Nakano Campus, Tokyo Polytechnic University

- Media Art Center, Main Hall
- Building 1, Information Corner
- Building 2, Media Lounge



Transportation 5 min. walk from Nakano-sakaue station on Tokyo Metro Marunouchi Line / Toei Subway Oedo Line. Leave the station from Exit #1, and follow Yamate-dori Avenue toward Shibuya. Turn right at the Nakano-honcho 2-Chome intersection.

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Official Website:

<https://www.color.t-kougei.ac.jp/en/>
<https://www.facebook.com/kougei.collab.gallery/> (Facebook)

Schedule:

Registration		Media Art Center, Entrance Hall
09:30–	Registration	
Session 1	Chair: T. Uchida	Media Art Center, Main Hall
10:00–10:15 (15 min.)	Opening Address	Introduction of Research Branding Project for Color Science and Art • Ryuichiro Yoshie, President of TPU
10:15–11:10 (55 min.)	Invited Talk 1	Spectral Imaging and Color in Art • Prof. Jussi Parkkinen, University of Eastern Finland
11:10–11:30 (20 min.)	Oral 1	The Overview of the 1st and 2nd Exhibition of col.lab Gallery • Yasushi Noguchi, Director of International Research Center for Color Science and Art
Poster Session with Lunch time		Building 1, Information Corner Building 2, Media Lounge
11:30–13:00 (90 min.)	Poster Session	• 17 posters (listed in the second table*)
Session 2	Chair: Y. Kuhara	Media Art Center, Main Hall
13:30–14:25 (55 min.)	Invited Talk 2	Application of High Dynamic Range Imaging Technology to Photographic Art • Prof. M. James Shyu, Chinese Culture University
14:25–14:50 (25 min.)	Oral 2	Appearance Reproduction of Photographic Prints by Display Monitor • Yoshihiko Azuma, TPU
14:50–15:00 (10 min.)	Break	Media Art Center, Entrance Hall-4
Session 3	Chair: Y. Noguchi	Media Art Center, Main Hall
15:00–15:20 (20 min.)	Oral 3	The col.lab Gallery 3rd Exhibition: “Explorer of Color” • Tsuyoshi Moriyama, TPU
15:20–16:15 (55 min.)	Invited Talk 3	Effect of Color Saturation on Buying Decision Model for Printed Durian Image on Packages Prof. Aran Hansuebsai, Chulalongkorn University
16:15–16:40 (25 min.)	Oral 4	Artificial Intelligence Artistic Painting Mirror as Interactive Art Using Deep Neural Networks • Yasuo Kuhara, TPU
16:40–16:45 (5 min.)	Closing	Closing remarks Takayuki Uchida, TPU

* Poster Session

Building 1, Information Corner (8 posters)		
No.	Title	Presenter, Project Leader
1	Metaphoric Association between Colors and Abstract Thoughts: A Case of “Time”	Yoshihiro Matsunaka
2	Development of a Smart LED Lighting System for Preventing Unconcentrated State	Masayuki Sekiguchi, Duk Shin
3	Development of a Color Mixer for Mixed-Color Education and Its Outreach Activities	Suezou Nakadate, Yoshimasa Tokuyama
4	Education and Communication Research Using Robotics Based on Color Science	Junji Sone
5	Effect of Fixing a Tiny Wearable Display on a Tongue Imaging Analysis System (TIAS) to Improve Stability of Tongue Presentation	Takayuki Uchida
6	A Common-Path Phase-Shifting Interference-Microscope Using RGB Lasers	Jun Chen
7	Investigation of Optimal Illumination Color in Clinical Environment of Medicine	Tsuyoshi Moriyama
8	Development of a Pole that Provides Information Using Color of Light	Yuta Ogai

Building 2, Media Lounge (9 posters)		
No.	Title	Presenter, Project leader
9	Les Mémoires des Couleurs: Preserving the Color Works of Shoji Ueda and Creating the Digital Archives	Hitoshi Tanaka
10	Producing of Manga on the Colors of Horses and Armors Depicted in War Novels and Picture Scrolls of Japanese Medieval Times	Atsushi Hosogaya
11	Fundamental Study on Color Concrete for Structural Building Members	Hiroshi Jinnai
12	Acceleration of Electrochromic Response using Metamaterials	Katsumi Yamada
13	Molecular Robots Use the Change of Colors as a Power Source: Development of an Educational Tool for Young Students by Utilizing the Structural Color Materials	Toshihiro Hiejima
14	Scientific Research into the Green Metallic Luster of Safflower Red Pigment extracted by Traditional Method	Maiko Sasaki, Hitoshi Yajima
15	Real-Time Self-Localization Using a Genetic Algorithm Based on Color Detection	Kaori Watanabe, Hidekazu Suzuki
16	An Acceleration Method for Color Computation using Coarse Pixel Shading	Takashi Imagire
17	Transmission of Color Information Using Human Body Communication	Fukuro Koshiji

About the FY 2016 Private University Research Branding Project

The “Private University Research Branding Project” is a governmental program that lends intensive support for expenses, facility costs and equipment costs as a package to private universities working on unique research across the university under the leadership of the president. There were 198 applications from private universities nationwide and 40 schools including TPU were selected at this time.

Our project is rooted in academic disciplines such as photography, printing, and optics, which are the roots of TPU, and it picked “color” as a cross-cutting research theme that is common in today’s Faculty of Engineering and Faculty of Arts.

We will form the only “International Research Center for Color Science and Art” in Japan. Through this project, we will build our university brand to be known for “color” and aim for further “true fusion of engineering and art”.

