

Workshop Program

March 27, 2019 : CCIW2019 Tutorial

9:30 - 10:45 Tutorial 1

" Image Features for Human Material Perception," *Shin'ya Nishida*

(10:45 - 11:15 Coffee Break)

11:15 - 12:30 Tutorial 2

" Visual Perception of Materials and their Properties," *Roland W. Fleming*

(12:30 - 14:00 Lunch Break)

14:00 - 15:15 Tutorial 3

" Status Quo of Colour Appearance Modelling," *Ming Ronnier Luo*

(15:15 - 15:45 Coffee Break)

15:45 - 17:00 Tutorial 4

" Freeing Computer Vision from Its Fundamental Limits," *Ko Nishino*

17:30 - 19:30 Reception

March 28, 2019 : CCIW2019 Day1

8:50 - 9:00 Welcome Remarks

9:00 - 9:40 Invited Talk 1

"Improving Generalization Ability of Deep Neural Networks for Visual Recognition Tasks," *Takayuki Okatani*

(9:40 - 10:10 Coffee Break)

10:10 - 11:10 Oral Session 1 : Computational Color Imaging

"An Imaging System for Fourier Coefficients of Spectral Reflectance,"

Akira Kimachi, Motonori Doi and Shogo Nishi

"Finding a Colour Filter to Make a Camera Colorimetric by Optimisation,"

Graham D. Finlayson and Yuteng Zhu

"Conditional Color Gamut for Color Management of Multiview Printed Images," *Nicolas Dalloz and Mathieu Hébert*

(11:10 - 11:30 Break)

11:30 - 12:30 Oral Session 2 : Multispectral Imaging

"Acquisition of 3D Data and Spectral Color by Using RGBD Camera and Programmable Light Source," *Motonori Doi, Norifumi Nishida, Akira Kimachi and Shogo Nishi*

"HDR Spectral Video Measurement System,"

Takayuki Tsuruta, Yoshitsugu Manabe and Noriko Yata

"Spectral Estimation of Chromatically Adapted Corresponding Colors,"

Tanzima Habib and Phil Green

(12:30 - 14:00 Lunch Break)

14:00 - 14:40 Invited Talk 2

"How Microarrangement of Colored Materials Influences the Macroscopic Color of a Surface," *Mathieu Hébert*

14:40 - 15:40 Oral Session 3 : Perceptual Model and Application

"Using the Monge-Kantorovitch Transform in Chromagenic Color Constancy for Pathophysiology," *Ghalia Hemrit, Futa Matsushita, Mihiro Uchida, Javier Vazquez-Corral, Han Gong, Norimichi Tsumura and Graham D. Finlayson*

"Chromatic Adaptation in Colour Management,"

Phil Green and Tanzima Habib

"Web Browsers Colorimetric Characterization,"

Philippe Colantoni and Alain Tremeau

(15:40 - 16:10 Coffee Break)

16:10 - 17:10 Oral Session 4 : Color Image Evaluation

"Evaluation of Automatic Image Color Theme Extraction Methods,"

Gianluigi Ciocca, Paolo Napoletano and Raimondo Schettini

"Long-Term Face Image Analysis Based on Canonical Correlation Analysis on Physical and Psychological Evaluation of Face," *Ikumi Nomura, Yuri Tatsuzawa, Nobutoshi Ojima, Takeo Imai, Keiko Ogawa and Norimichi Tsumura*

"A Novel Digital-Camera Characterization Method for Pigment Identification in Cultural Heritage," *Emanuela Manfredi, Giovanni Petrillo and Silvana Dellepiane*

March 29, 2019 : CCIW2019 Day2

9:00 - 9:40 Invited Talk 3

"Computational Imaging in Projection Mapping,"

Daisuke Iwai

(9:40 - 10:10 Coffee Break)

10:10 - 11:10 Oral Session 5 : Color Image Filtering

"Learning Parametric Functions for Color Image Enhancement,"

Simone Bianco, Claudio Cusano, Flavio Piccoli and Raimondo Schettini

"Haze Transfer Between Images Based on Dark Channel Prior,"

Koushirou Maeda, Keita Hirai and Takahiko Horiuchi

"Physically Plausible Dehazing for Non-physical Dehazing Algorithms,"

Javier Vazquez-Corral, Graham D. Finlayson, and Marcelo Bertalmío

(11:10 - 11:30 Break)

11:30 - 12:30 Oral Session 6 : Color Image Applications

"Evaluating CNN-based Semantic Food Segmentation Across Illuminants,"

Gianluigi Ciocca, Davide Mazzini and Raimondo Schettini

"Color-base Damage Feature Enhanced Support Vector Classifier for

Monitoring Quake Image," *Takato Yasuno, Masazumi Amakata, Junichiro Fujii and Yuri Shimamoto*

"Colorization of High-Frame-Rate Monochrome Videos Using Synchronized Low-Frame-Rate Color Data," *Ching-Fan Chiang, Yang-Ming Yeh, Chi-Yun Yang and Yi-Chang Lu*

(12:30 - 14:00 Lunch Break)

14:00 - 14:40 Invited Talk 4

"On the Acquisition and Reproduction of Material Appearance,"

Jon Y. Hardeberg

14:40 - 16:00 Oral Session 7 : Color Imaging for Material Appearance

"Reflectance computation for a specular only V-cavity,"

Dorian Saint-Pierre, Lionel Simonot and Mathieu Hébert

"Makeup Skin Appearance Reproduction by Spectral Projection Mapping,"

Hiroki Shirasawa, Keita Hirai and Takahiko Horiuchi

"Evaluating the Material Appearance of Objects Under Different Lighting Distributions Against Natural Illumination," *Takashi Yamazoe, Tomohiro Funaki, Yuki Kiyasu and Yoko Mizokami*

Funaki, Yuki Kiyasu and Yoko Mizokami

"Material Appearance Transfer with Visual Cortex Image,"

Hiroaki Kotera

(16:00 - 16:30 Coffee Break)

16:30 - 17:00 Round Table

17:00 - 17:10 Closing Remarks