IS&T International Symposium on Electronic Imaging Science and Technology 2016

Retinex at 50

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Color Imaging XXI: Displaying, Processing, Hardcopy, and Applications

Tuesday, February 16, 2016

COLOR/HVEI: Retinex at 50: History Joint Session

Session Chair: Marcelo Bertalmio, Universitat Pompeu Fabra (Spain)

8:50 – 10:10 am
Continental Ballroom 4

This session is jointly sponsored by: Color Imaging XXI: Displaying, Processing, Hardcopy, and Applications, and Human Vision and Electronic Imaging (HVEI) 2016.

8:50   RETINEX-017
Retinexes algorithms: Many spatial processes used to solve many different problems (Invited), *John McCann, McCann Imaging (USA)*

9:30   RETINEX-018
Designator Retinex, Milano Retinex and the locality issue (Invited),
Alessandro Rizzi, Università degli Studi di Milano (Italy)

10:10 – 10:50 am   Coffee Break

COLOR/HVEI: Retinex at 50: Spatial Algorithms Joint Session

Session Chair: John McCann, McCann Imaging (USA)

10:50 am – 12:30 pm
Continental Ballroom 4

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10:50   RETINEX-019
The oriented difference of Gaussians model of brightness perception (Invited), *Mark McCourt and Barbara Blakeslee, North Dakota State University (USA)*

11:10   RETINEX-020
A center-surround framework for spatial image processing, *Vassilios Vonikakis, Advanced Digital Sciences Center (ADSC) (Singapore)*

11:30   RETINEX-021
Retinex-like computations in human lightness perception and their possible realization in visual cortex (Invited), *Michael Rudd, University of Washington (USA)*

11:50   RETINEX-022
The role of lightness perception in determining the perceived contrast of real world scenes (Invited), *David Kane and Marcelo Bertalmio, Universitat Pompeu Fabra (Spain)*

12:10   RETINEX-023
Processing astro photographs using Retinex based methods (Invited), *Daniele Marini, Alessandro Rizzi, and Cristian Bonanomi, Università degli Studi di Milano (Italy)*

12:30 – 2:00 pm   Lunch Break

EI 2016 Tuesday Plenary and Symposium Awards
Session Chair: Nitin Sampat (Rochester Institute of Technology)
2:00 – 3:00 PM
Continental Ballroom 5

Pushing computational photography deeper into imaging system design, *Ren Ng, University of California, Berkeley (USA)*

3:00 – 3:30 pm   Coffee Break

RETINEX at 50: Image Processing

Session Chair: Alessandro Rizzi, Università degli Studi di Milano (Italy)

3:30 – 5:30 pm
Continental Ballroom 1

3:30   RETINEX-316
Connections between Retinex, neural models and variational methods (Invited), *Marcelo Bertalmio, Universitat Pompeu Fabra (Spain)*

4:10   RETINEX-317
Image processing applications through a variational perceptually-based color correction related to Retinex (Invited), *Javier Vazquez-Corral[1], Syed Waqas Zamir[1], Adrian Galdran[2], David Pardo[3], and Marcelo Bertalmio[1]; [1]Universitat Pompeu Fabra, [2]Tecnalia, and [3]EHU/UPV and Ikerbasque (Spain)*

4:30   RETINEX-318
A generalized white-patch model for fast color cast detection in natural images (Invited), *José Luis Lisani[1], Ana Belen Petro[1], Edoardo Provenzi[2], and Catalina Sbert[1]; [1]Universitat des Illes Balears (Spain) and [2]Université Paris Descartes (France)*

4:50   RETINEX-319
Statistical aspects of space sampling in Retinex models (Invited),
Gabriele Gianini, Universitá degli Studi di Milano (Italy)

5:10
RETINEX Discussion

EI 2016 Symposium Demonstration Session and Exhibit Hall Happy Hour
5:30 – 7:00 PM
Continental Ballroom Foyer