2018 Colour and Visual Computing Symposium (CVCS 2018)

Gjovik, Norway **19 – 20 September 2018**



IEEE Catalog Number: CFP1830V-POD **ISBN:**

978-1-5386-5646-4

Copyright © 2018 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP1830V-POD
ISBN (Print-On-Demand):	978-1-5386-5646-4
ISBN (Online):	978-1-5386-5645-7

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400 Fax: (845) 758-2633 E-mail: curran@proceedings.com Web: www.proceedings.com



CVCS₂₀₁₈

Colour and Visual Computing Symposium Wednesday 19, September 2018

08:30–08:45	Registration					
08:45-09:00	Conference Opening					
09:00–09:45	Keynote1 Holly Rushm	eier : Material Ap	pearance Issues in C	ultural HeritageN/A		
09:45–10:00	Coffee Break					
10:00-12:00	Poster Session (Chair: • Novel approach to unifor • Deep learning for dehazi • Can image quality enhand degraded face images?	mization of a color ng: Comparison ar ncement methods i	space via generic deep nd analysis5	e of biometric systems for	tion1	
	 Hand-crafted vs deep fea Melon crack identification Statistics of hyperspectra A corrected single-consta A key frame based summ Determining the sequence 	atures: A quantitation and classification al data/image analy ant Kubelka-Munk narization using co ce of intersecting lin	using k-means clusteri vsis: Entropy27 model for color prediction lor features33	appearance model16 ng for quality inspection2 on of pre-colored fiber blend / by colorimetric evaluation	sN/A	
	 A pilot study on Iranian s Spatially dependent whit CNN feature similarity: P A deep learning-based here 	e balance for fill fla aintings are more	self-similar at all levels.			
12:00–13:00	Lunch Break					
13:00–13:45	Keynote 2 Michael Felsberg: Online Machine Learning for Robot VisionN/A					
13:45–14:00	Coffee Break			2- EAD		
14:00–15:00	 D-15:00 Vision Session (Chair: Holly Rushmeier) • CEED - A database for image contrast enhancement evaluation60 • Colour-To-Greyscale image conversion by linear anisotropic diffusion of perceptual colour metrics60 					
		• / /		servers with a colour vision	10300	
15:00–15:20	Coffee Break					
15:20–16:20	Colour Imaging Session • Comparison of mosaic particular • Dye purification: an image • Evaluation of color correct	atterns for spectral e-processing tech	filter arrays78 nique for the digital rest	oration of chromogenic film.	84	
16:20–16:45	Invited Paper Patrick C	allet: Transparer	nt Materials Colour ar	d Appearance95		
16:45–17:45	Colourlab tour (Optional					
19:00–23:00	Conference dinner (Scie	ence Center: Bre	nnerigata 1, 2815 Gjø	ovik) Grating		

Norwegian University of Science and Technology



The Research Council of Norway



Colour and Visual Computing Symposium
Thursday 20. September 2018

09:00–09:15	Registration & Coffee Cightsource Object CIE observer
09:15–10:00	Keynote 3 Marcelo Bertalmio: From Vision Models to Cinema Applications, and BackN/A
10:00–10:15	Coffee Break
10:15–11:15	 Colour and Light Session (Chair: Patrick Callet) Effects of ambient illumination on text recognition for UI development99 Evaluation of gamut mapping algorithms in different uniform colour spaces105 Photo-realistic style transfer for cinema shoots109
11:15–11:30	Coffee Break
11:30–12:30	 Medical Session (Chair: Azzedine Beghdadi) Validation of stereo vision based liver surface reconstruction for image guided surgery115 Stochastic correction of boundary conditions during liver surgery121 Enhancing dermoscopy images to improve melanoma detection125
12:30–13:30	Lunch Break
13:30–14:30	 Appearance Session (Chair: Philipp Urban) Dependence of texture classification accuracy on spectral information131 Measurement uncertainty for printed textiles137 Application of spectral statistics to spectral texture discrimination143
14:30–14:45	Best Student Paper Award, Closing



Norwegian University of Science and Technology



The Research Council of Norway