



# 3DTV Conference 2018

3-5 June 2018 // Stockholm – Helsinki – Stockholm

## Conference Agenda

### Session Overview

Date: Sunday, 03/Jun/2018

11:00am - 12:00pm	Registration
12:00pm - 1:00pm	Lunch
1:00pm - 1:15pm	Conference Opening
1:15pm - 2:00pm	Keynote 1: Computational Imaging for Machine Vision Donald Dansereau Stanford University, USA
2:00pm - 3:20pm	Session 1: Plenoptic Imaging  <b>Simulation of Plenoptic Cameras</b> Tim Michels, <a href="#">Arne Petersen</a> , Luca Palmieri, Reinhard Koch  <b>Virtually Extended Lenslets for Artifact Reduction in Light Field Microscopy</b> Anca Stefanoiu, Josue Page Vizcaino, Tobias Lasser  <b>An Analysis of Demosaicing for Plenoptic Capture Based on Ray Optics</b> <a href="#">Yongwei Li</a> , Roger Olsson, Mårten Sjöström  <b>Design of Micro Photon Sieve Arrays for High Resolution Light-Field Capture in Plenoptic Cameras</b> Ali Ozgur Yontem, Daping Chu
3:20pm - 3:35pm	Coffee Break
3:35pm - 4:20pm	Keynote 2: Visual Attention Modeling in VR Patrick Le Callet University of Nantes, France
4:20pm - 6:00pm	Session 2: 3D Scene Capture and Reconstruction  <b>Local Method of Color-Difference Correction Between Stereoscopic-Video Views</b> Sergey Lavrushkin, Vitaliy Lyudvichenko, <a href="#">Dmitriy Vatolin</a>  <b>Adaptive Color Correction in Virtual View Synthesis</b> Adrian Dziembowski, Marek Domanski  <b>Fast Occlusion Filling Method For Multiview Video Generation</b> Aidar Khatiullin, Mikhail Erofeev, Dmitriy Vatolin  <b>Depth Image Based View Synthesis with Multiple Reference Views for Virtual Reality</b> Sarah Fernandes-Pinto-Fachada, Daniele Bonatto, Arnaud Schenkel, Gauthier Lafruit  <b>Single-shot Dense Reconstruction with Epic-Flow</b> <a href="#">Qiao Chen</a> , Charalambos Poullis
7:30pm	Dinner

Date: Monday, 04/Jun/2018

7:30am -	Breakfast
9:30am -	
10:00am -	Helsinki Sightseeing Tour
12:00pm -	
4:00pm -	Tutorial: 360° Live-Action Content Production – Challenges, Limitations and Current State of the Art Sebastian Knorr Technical University of Berlin, Germany
5:30pm -	Session 3: Posters
7:00pm -	<b>3D Objective Quality Assessment of Light Field Video Frames</b> Roopak R. Tamboli, Peter A. Kara, <a href="#">Aron Cserkaszky</a> , Attila Barsi, Maria G. Martini, Balasubramanyam Appina, Sumohana S. Channappayya, Soumya Jana
	<b>Channel-Mismatch Detection Algorithm for Stereoscopic Video Using Convolutional Neural Network</b> <a href="#">Sergey Lavrushkin</a> , <a href="#">Dmitriy Vatolin</a>
	<b>LIFE: A Flexible Testbed for Light Field Evaluation</b> <a href="#">Elijs Dima</a> , Mårten Sjöström, Roger Olsson, Martin Kjellqvist, Lukasz Litwic, Zhi Zhang, Lennart Rasmusson, Lars Flodén
	<b>Accurate Method of Temporal Shift Estimation for 3D Video</b> <a href="#">Aleksandr Ploshkin</a> , <a href="#">Dmitriy Vatolin</a>
	<b>Depth Perception Prediction of 3D Video for Ensuring Advanced Multimedia Services</b> Gokce NUR YILMAZ, Federica BATTISTI
	<b>Dynamic Fracturing of 3D Models for Real Time Computer Graphics</b> <a href="#">George Palamas</a> , Georgios Triantafyllidis, Yousif Ali Hassan Najim
	<b>Sign Language Recognition Based on Hand and Body Skeletal Data</b> Dimitrios Konstantinidis, Kosmas Dimitropoulos, Petros Daras
	<b>Matching Light Field Datasets from Plenoptic Cameras 1.0 and 2.0</b> Waqas Ahmad, Luca Palmieri, Reinhard Koch, Mårten Sjöström
	<b>Linear Filter Bank for Perfect Reconstruction of Light Field from Its Focal Stack</b> Asami Ito, Akira Kubota, Kazuya Kodama
	<b>Real-Time Multi-View Volumetric Reconstruction of Dynamic Scenes using Kinect v2</b> <a href="#">Andrej Satnik</a> , Ebrul Izquierdo
	<b>Fast virtual view rendering from fisheye-lens captured imagery</b> Filipe Xavier Da Graca Gama, Mihail Georgiev, Atanas Gotchev
	<b>Analysis of Accommodation Cues in Holographic Stereograms</b> Jani Mäkinen, Erdem Sahin, Atanas Gotchev
	<b>Viewing Simulation of Integral Imaging Display Based on Wave Optics</b> Ugur Akpinar, Erdem Sahin, Atanas Gotchev
	<b>ICP with Depth Compensation for Calibration of Multiple ToF Sensors</b> <a href="#">Norishige Fukushima</a>
8:00pm	Dinner (Tavolàta Ristorante Italiano)

**Date: Tuesday, 05/Jun/2018**

7:00am -	Breakfast
9:00am -	
9:00am -	Session 4: Light Field Imaging and Displays
11:00am	<b>Expert Evaluation of a Novel Light-field Visualization Format</b> <u>Aron Cserkaszkzy</u> , Peter A. Kara, Attila Barsi, Maria G. Martini
	<b>Shearlet-Based Light Field Reconstruction of Scenes with non-Lambertian properties</b> Sergio Moreschini, Robert Bregovic, Atanas Gotchev
	<b>Artifact Reduction in 3D Light Field Reconstruction with Gradient Based Methods</b> Josue Page, Anca Stefanoiu, Tobias Lasser
	<b>Depth Estimation in Light Field Camera Arrays Based on Multi-Stereo Matching and Belief Propagation</b> <u>Ségolène Rogge</u> , Adrian Munteanu
	<b>A Novel Disparity-Assisted Block Matching-Based Approach for Super-Resolution of Light Field Images</b> Saber Farag, Vladan Velisavljevic
	<b>Latest Research at the Advanced Display Laboratory at NTU</b> Phil Surman, Zhang Xiangyu, Song Weitao, Xia Xinxing, Wang Shizheng, Zheng Yuanjin