

Wednesday, December 7	
09:00-10:00	<u>Overview Talk III</u> Karlheinz Brandenburg
10:00-10:20	Coffee Break
10:20-11:20	High Dynamic Range
10:20	<u>High Quality HDR Video Compression using HEVC Main 10 Profile</u> Jacob Ström, Kenneth Andersson, Martin Pettersson, Per Hermansson and Jonatan Samuelsson (Ericsson Research, Sweden); Andrew Segall (Sharp Labs, USA); Jie Zhao and Seung-Hwan Kim (Sharp Labs of America, USA); Kiran M. Misra (Sharp Laboratories of America Inc., USA); Alexis Michael Tourapis, Yeping Su and David Singer (Apple Inc., USA)
10:35	<u>Quantizer noise equalization between electro-optical transfer functions</u> Andrew Segall (Sharp Labs, USA); Jie Zhao and Seung-Hwan Kim (Sharp Labs of America, USA); Kiran M. Misra (Sharp Laboratories of America Inc., USA)
10:50	<u>Fast algorithm for HDR video pre-processing</u> Andrey Norkin (Netflix, USA)
11:05	<u>Multistream Video Encoder for Generating Multiple Dynamic Range Bitstreams</u> Cedric Van Goethem, Johan De Praeter, Tom Paridaens, Glenn Van Wallendael and Peter Lambert (Ghent University - iMinds, Belgium)
11:20-12:20	Perceptual Quality
11:20	<u>Neural Network-Based Full-Reference Image Quality Assessment</u> Sebastian Bosse and Dominique Maniry (Fraunhofer Heinrich Hertz Institute, Germany); Klaus-Robert Müller (Machine Learning Laboratory, Berlin Institute of Technology, Berlin, Germany); Thomas Wiegand (Fraunhofer HHI, Germany); Wojciech Samek (Fraunhofer Heinrich Hertz Institute, Germany)
11:35	<u>Long-term Quality Evaluation in OTT Video</u> Roland Bitto, Shahid Satti, Matthias Obermann, Michael Keyhl and Christian Schmidmer (OPTICOM GmbH, Germany)
11:50	<u>A Testbed for Subjective Evaluation of Omnidirectional Visual Content</u> Evgeniy Upenik and Martin Rerabek (EPFL, Switzerland); Touradj Ebrahimi (Ecole Polytechnique Fédérale de Lausanne, Switzerland)
12:05	<u>Objective and Subjective Evaluation of Light Field Image Compression Algorithms</u> Irene Viola (Ecole Polytechnique Fédérale de Lausanne, Switzerland); Martin Rerabek (EPFL, Switzerland); Tim Bruylants and Peter Schelkens (Vrije Universiteit Brussel, Belgium); Fernando Pereira (Instituto Superior Técnico - Instituto de Telecomunicações & Universidade de Lisboa, Portugal); Touradj Ebrahimi (Ecole Polytechnique Fédérale de Lausanne, Switzerland)
12:20-13:20	Lunch Break
13:20-14:20	Multi-view Compression and Synthesis
13:20	<u>Multiview synthesis - improved view synthesis for virtual navigation</u> Adrian Dziembowski, Adam Grzelka, Dawid Mieloch, Olgierd Stankiewicz, Krzysztof Wegner and Marek Domański (Poznan University of Technology, Poland)
13:35	<u>View Synthesis from Defocused Stereo Images with Coded Aperture</u> Yuta Narukiyo and Akira Kubota (Chuo University, Japan)

13:50	<u>Distributed Coding of Multiview Sparse Sources with Joint Recovery</u> Huynh Van Luong (University of Erlangen-Nuremberg, Germany); Nikos Deligiannis (Vrije Universiteit Brussel, Belgium); Soren Forchhammer (Technical University of Denmark, Denmark); Andre Kaup (University of Erlangen-Nuremberg, Germany)
14:05	<u>Enhanced View Synthesis Prediction for Coding of Non-Coplanar 3D Video Sequences</u> Jens Schneider (RWTH Aachen University, Germany); Johannes Sauer (RWTH Aachen University, Germany); Mathias Wien (RWTH Aachen University, Germany)
14:20-16:20	Poster Session III & Coffee
16:20-17:20	Lightfield and Omnidirectional Imaging
16:20	<u>HEVC-compliant Viewport-adaptive Streaming of Stereoscopic Panoramic Video</u> Alireza Zare (Tampere University of Technology & Nokia, Finland); Kashyap Kammachi Sreedhar (Tampere University of Technology, Finland); Vinod Malamal Vadakital and Alireza Aminlou (Nokia Technologies, Finland); Miska Hannuksela (Nokia Research Center, Finland); Moncef Gabbouj (Tampere University of Technology, Finland)
16:35	<u>Geometry-driven quantization for omnidirectional image coding</u> Francesca De Simone (EPFL, Switzerland); Paul Wilkins (Google, Inc., USA); Neil Birkbeck and Anil Kokaram (Google Inc., USA); Pascal Frossard (EPFL, Switzerland)
16:50	<u>Analysis of Regional Down-Sampling Methods for Coding of Omnidirectional Video</u> Ramin Ghaznavi Youvalari and Alireza Aminlou (Nokia Technologies, Finland); Miska Hannuksela (Nokia Research Center, Finland)
17:05	<u>L1-optimized linear prediction for light field image compression</u> Rui Zhong (Vrije Universiteit Brussel, Belgium); Shizheng Wang (Nanyang Technological University); Bruno Cornelis (Vrije Universiteit Brussel Belgium); Junsong Yuan (Nanyang Technological University, Singapore); Adrian Munteanu (Vrije Universiteit Brussel, Belgium)
17:20-17:50	Best Paper Awards
17:50-18:00	Farewell André Kaup

Poster Session	No.	Poster	Author
III	1	<u>Image Restoration via Successive Compression</u>	Yehuda Dar, Alfred Bruckstein and Michael Elad (Technion, Israel)
III	2	<u>Graph-Based Compensated Wavelet Lifting for 3-D+t Medical CT Data</u>	Daniela Lanz (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Andre Kaup (University of Erlangen-Nuremberg, Germany)
III	3	<u>Compression of medical images using MRP with bi-directional prediction and histogram packing</u>	João M. Santos (Instituto de Telecomunicações & Instituto Politécnico de Leiria, Portugal); André Guarda (ESTG - IPEiria/Instituto de Telecomunicações, Portugal); Luís A. da Silva Cruz (Instituto de Telecomunicações / University of Coimbra, Portugal); Nuno Rodrigues (Instituto de Telecomunicações - ESTG IPEiria, Portugal); Sérgio M. M. Faria (Instituto de Telecomunicações & Instituto Politecnico de Leiria, Portugal)
III	4	<u>Enhanced Intra Prediction Modes Signalling in HEVC</u>	Kevin Reuzé (Orange Labs & IETR, France); Pierrick Philippe (France Télécom R&D, France); Wassim Hamidouche (IETR-INSa Rennes, France); Olivier Deforges (IETR, Rennes, France)
III	5	<u>Sample-Parallel Execution of EBCOT in Fast Mode</u>	Volker Bruns and Miguel A. Martínez-del-Amor (Fraunhofer IIS, Germany)
III	6	<u>The Optimum Space-Frequency Partition for Subband Image Coding in a Rate-Distortion Sense</u>	Haruhiko Miyazaki and Masashi Kameda (Iwate Prefectural University, Japan)
III	7	<u>Guided-Colorization-based Color Image Coding</u>	Yuya Ema and Seisuke Kyochi (The University of Kitakyushu, Japan)
III	8	<u>Single Image Super-Resolution Based on Total Variation Regularization with Gaussian Noise</u>	Hiroki Tsurusaki, Masashi Kameda and Prima Ardiansyah (Iwate Prefectural University, Japan)
III	9	<u>Improved Intra Angular Prediction with Novel Interpolation Filter and Boundary Filter</u>	Rujun Wei (Shanghai Jiaotong University, P.R. China); Rong Xie, Li Song and Liang Zhang (Shanghai Jiao Tong University, P.R. China)
III	10	<u>Lossless Compression of the Curated Erythrocyte Images Using Deep Autoencoders for Malaria Infection Diagnosis</u>	Hongda Shen (University of Alabama in Huntsville, USA); W. David Pan, Yuhang Dong and Mohammad Alim (University of Alabama in Huntsville, USA)
III	11	<u>Improved Combined Intra Prediction for Higher Video Compression Efficiency</u>	Andre Seixas Dias, Saverio G. Blasi and Marta Mrak (BBC, United Kingdom); Ebroul Izquierdo (Queen Mary, University of London, United Kingdom)
III	12	<u>Intra Prediction using Adaptive TU Scan Order with Residue Flipping</u>	Shunsuke Iwamura and Atsuro Ichigaya (NHK, Japan)
III	13	<u>Impact of Hyperspectral Image Coding on Subpixel Detection</u>	Ulrike Pestel-Schiller and Karsten Vogt (Leibniz Universität Hannover); Jörn Ostermann (Leibniz Universität Hannover, Germany); Wolfgang Groß (Fraunhofer IOSB, Germany)

III	14	<u>Saliency-driven image coding improves overall perceived JPEG quality</u>	Vlad Hosu (University of Konstanz, Germany); Franz Hahn (Universität Konstanz, Germany); Oliver Wiedemann and Dietmar Saupe (University of Konstanz, Germany); Sung-Hwan Jung (Changwon National University, Korea)
III	15	<u>A DWT-based Lossless Intra Coding Scheme for HEVC</u>	Weizhe Xu (Harbin Institute of Technology & Microelectronics Center, P.R. China); Fu Fangfa (Harbin Institute of Technology, P.R. China); Yao Wang and Wang Jin-xiang (Harbin Institute of Technology, P.R. China)
III	16	<u>Deep learning-based intra prediction mode decision for HEVC</u>	Thorsten Laude and Jörn Ostermann (Leibniz Universität Hannover, Germany)
III	17	<u>A Bitstream Feature Based Model for Video Decoding Energy Estimation</u>	Christian Herglotz, Yongjun Wen, Bowen Dai and Matthias Kränzler (Friedrich-Alexander University Erlangen-Nürnberg (FAU), Germany); Andre Kaup (University of Erlangen-Nuremberg, Germany)