

Paper Schedule by Day/Time

Monday, January 30, 2017

8:50 am

- AVM-009 Architectures for automated driving *(Weast)*
 COIMG-453 Deep neural networks for synchrotron X-ray imaging *(Yang)*
 DPMI-063 Stabilized high-speed video from camera arrays *(El Choubassi)*
 IQSP-218 Blind image quality assessment using multiscale local binary patterns (IJST-first) *(Garcia Freitas)*
 MWFS-316 The nimble challenges for media forensics *(Phillips)*
 SD&A-353 Expert viewers' preferences for higher frame rate 3D film (IJST-first) *(Allison)*

9:10 am

- COIMG-415 Synchrotron x-ray diffraction dynamic sampling for protein crystal centering *(Simpson)*
 DPMI-064 Panoramic background estimation from RGB-D videos *(Bampis)*
 HVEI-111 Vision at a glance (Invited) *(Rosenholtz)*
 IQSP-219 Dimension reduction-based attributes selection in no-reference learning-based image quality algorithms *(Charrier)*
 SD&A-354 Investigating aircrew depth perception standards using a stereoscopic simulation environment *(Winterbottom)*

9:30 am

- COIMG-416 An iterative method to estimate and recover systematic and random errors in grating based x-ray phase contrast imaging *(Lim)*
 DPMI-065 Accurate measurement of point to point distances in 3D camera images *(Seshadrinathan)*
 IQSP-220 GPGPU based implementation of a high performing No Reference (NR)- IQA algorithm, BLINDS-II *(Yadav)*
 SD&A-355 Estimation of altitude in stereoscopic-3D versus 2D real-world scenes *(Deas)*

9:40 am

- CVAS-342 Virtual tracking shots for sports analysis *(Bennett)*

9:50 am

- AVM-010 3D Perception: multi-camera embedded structure-from-motion prototype for real-time mapping *(Mueller)*
 COIMG-417 A model based neuron detection approach using sparse location priors *(Majee)*
 DPMI-066 A novel framework for fast MRF optimization *(Somanath)*
 IQSP-221 No-reference image contrast assessment based on just-noticeable-difference *(Kim)*

SD&A-356

Study of objective parameters of 3D visual fatigue based on analysis of salient area *(Du)*

10:00 am

- CVAS-343 Aerodynamic analysis via foreground segmentation *(Carey)*

10:10 am

- AVM-451 Measuring MTF with wedges: Pitfalls and best practices *(Koren)*
 COIMG-449 Multi-resolution Data Fusion (MDF) for computational electron microscopy *(Sreehari)*

10:30 am

- HVEI-112 Eidolons: Effects of capricious local sign (Invited) *(Koenderink)*
 MWFS-317 Embedding information into objects fabricated with 3-D printers by forming fine cavities inside them *(Suzuki)*

10:50 am

- AVM-012 Free-view multi-camera visualization and harmonization for automotive systems *(Zlokica)*
 COIMG-418 High spatial resolution detection method for point light source in scintillator *(Xu)*
 CVAS-344 Goal! Event detection in sports video *(Tsagakatakis)*
 DPMI-067 Heterogeneous computational imaging *(Pulli)*
 IQSP-222 How to use video quality metrics for something other than video compression *(Kokaram)*
 MAAP-273 Comparison between angularly and spectrally resolved gloss measurements with gloss measurements carried out on a national reference goniometer for gloss calibration *(Charriere)*
 SD&A-357 Architectures and codecs for real-time light field streaming (IJST-first) *(Kovács)*
 VIPC-398 A fast TU mode decision algorithm based on residual difference for HEVC *(Li)*

10:55 am

- MWFS-319 High-capacity reversible data hiding in encrypted images using MSB prediction *(Puteaux)*

11:00 am

- HVEI-113 Careful methods and measurements for comparisons between men and machines (Invited) *(Wichmann)*

11:10 am

- AVM-013 Accelerated stereo matching for autonomous vehicles using upright pinhole camera model *(Chen)*

Paper Schedule by Day/Time

COIMG-419 A randomized approach to reduce metal artifacts in x-ray computed tomography (*Castañón*)

CVAS-345 Pose estimation for deriving kinematic parameters of competitive swimmers (*Zecha*)

MAAP-274 A normal vector and BTF profile measurement system using a correlation camera and scanning dome illumination (*Kimachi*)

SD&A-358 Wide viewing angle projection-type integral 3D display system with multiple UHD projectors (*Vatanabe*)

VIPC-399 A fast intra mode decision algorithm for HEVC (*Liao*)

11:20 am

MWSF-320 The A Priori knowledge based secure payload estimation for additive model (*Ma*)

11:30 am

AVM-014 Perspectively correct bird's views using stereo vision, Christian Fuchs and Dietrich Paulus, University of Koblenz-Landau (*Germany*)

COIMG-420 Joint segmentation and material recognition in dual-energy CT images (*Castañón*)

CVAS-346 Comparison of a virtual game-day experience on varying devices (*Miller*)

DPMI-068 Is there a multi-camera future? (Invited) (*Macmillan*)

HVEI-114 Perceptual and engineering implications of cascaded gain control models (Invited) (*Simoncelli*)

IQSP-223 MS-UNIQUE: Multi-model and sharpness-weighted unsupervised image quality estimation (*Prabhushankar*)

MAAP-275 Polarimetric multispectral bidirectional reflectance distribution function measurements using a Fourier transform instrument (*Boher*)

SD&A-359 A novel hardware based method for multiview glassless 3D display (*Chen*)

VIPC-400 Diamond frequency domain inter frame motion estimation for HEVC (*Abdelazim*)

11:50 am

AVM-015 A sense and avoid algorithm using surround stereo vision for drones (*Godaliyadda*)

COIMG-421 MultiGPU acceleration of branchless distance driven projection and backprojection for Clinical Helical CT (IJST-first) (*Mitra*)

CVAS-347 Digital playbook – A teaching tool for American football (*Vorstandlechner*)

DPMI-069 Capturing light field video for 6-DOF VR playback (Invited) (*Jiang*)

IQSP-224 Microarchitectural analysis of a GPU implementation of the most apparent distortion image quality assessment algorithm (*Kannan*)

MAAP-276 Optimal LED selection for multispectral lighting reproduction (*LeGendre*)

SD&A-360 Multilevel light modulation of three-dimensional magneto-optic spatial light modulator using optically addressing method (*Nakamura*)

VIPC-401 Compression of infrared images (*Mantel*)

12:00 pm

HVEI-116 Emerging visual representations in deep learning networks (Invited) (*Oliva*)

12:10 pm

AVM-011 Real-time flight altitude estimation using phase correlation with gram polynomial decimation (*Badshah*)

COIMG-422 Fast and robust discrete computational imaging (*Tuysuzoglu*)

DPMI-070 Representation and compression for cinematic VR (Invited) (*Lakshman*)

IQSP-225 Image quality assessment by comparing CNN features between images (IJST-first) (*Ali Amirshahi*)

SD&A-361 Integral three-dimensional display with high image quality using multiple flat-panel displays (*Okaichi*)

VIPC-402 Graph regularized sparse coding by modified online dictionary learning (*Sha*)

2:00 pm

PLENARY Giga-scale 3D computational microscopy (*Waller*)

3:30 pm

AVM-016 Needs and challenges analysis for reference architectures in autonomous systems (*Zander*)

COIMG-423 Linear mapping based inverse tone mapping (*Kim*)

CVAS-348 Automated sports broadcasting (*Carr*)

DPMI-071 Quantifying the luminance ratio of interior and exterior scenes: Challenges and tradeoffs in definitions, current standards, measurement methodologies and instrumentation, capturing capabilities of digital cameras, effects of veiling glare (*Voltoni de Azambuja*)

HVEI-117 Movies and meaning: From low-level features to mind reading (Invited) (*Benini*)

IQSP-226 Potential contrast – A new image quality measure (*Shaus*)

MAAP-288 Modeling and reproducing effect paints (*Meyer*)

MWSF-321 Benefits of combining forensic image creation and file carving (*Steinebach*)

SD&A-362 Stereoscopic displays, tracking, interaction, education, and the web (*Chavez*)

VIPC-403 A coarse-to-fine framework for video object segmentation (*Zhang*)

3:50 pm

- COIMG-424 Performance of the 14 skin-colored patches to accurately estimate the human skin (*Choi*)
- DPMI-072 Sensitivity analysis applied to ISO recommended camera color calibration methods to determine how much of an advantage, if any, does spectral characterization of the camera offer over the chart-based approach (*Sampat*)
- IQSP-227 Observer calibrator for color vision research (*Zhou*)
- MAAP-289 How to design a recto-verso print displaying different images in various everyday-life lighting conditions (*Dalloz*)
- VIPC-404 A fast and accurate segmentation method for medical images (*Wu*)

3:55 pm

- MWSF-322 Codec-embedded MP3 partial encryption for DRM (*Steinebach*)

4:10 pm

- COIMG-425 Skin-representative region in a face for finding true skin color (*Suk*)
- DPMI-073 Perceptual optimization driven by image quality metrics (Invited) (*Wang*)
- IQSP-228 Knowledge based taxonomic scheme for full reference objective image quality measurement models (IJST-first) (*Lahoulou*)
- MAAP-290 Appearance decomposition and reconstruction of textured fluorescent objects (*Tominaga*)
- VIPC-405 Adaptive combination of local motion, appearance, and shape for video segmentation (IJST-first) (*Lee*)

4:20 pm

- HVEI-119 On the role of color in visual saliency (*Etchebehere*)
- MWSF-323 How to recompress a JPEG crypto-compressed image? (*Itier*)

4:30 pm

- AVM-017 Enabling functional safety ASIL compliance for autonomous driving software systems (*Chitnis*)
- DPMI-074 Looming challenges in mobile imaging quality: New technologies and new markets (Invited) (*Cardinal*)
- IQSP-229 A RGB-NIR data set for evaluating dehazing algorithms (*Lüthen*)
- MAAP-291 Assessing the proper color of translucent materials by an extended two-flux model from measurements based on an integrating sphere (*Simonot*)

Tuesday, January 31, 2017

8:50 am

- AVM-018 Common themes in autonomous navigation on earth and in space (*Matthies*)
- COIMG-454 Atomistic simulations of interface characteristics in materials systems (*Rickman*)
- COLOR-026 Wide-gamut mobile-device displays: Gamut-mapping and color enhancement challenges (*Safaei-Rad*)
- HVEI-378 Depth-compressed expression for providing natural, visual experiences with integral 3D displays (*Sawahata*)
- IPAS-197 Compressed sensing MRI using curvelet sparsity and nonlocal total variation (*Pour Yazdanpanah*)
- IQSP-249 Towards the development of the IEEE P1858 CPIQ standard – A validation study (*Jin*)
- MWSF-324 Pre-training via fitting deep neural network to rich-model features extraction procedure and its effect on deep learning for steganalysis (*Zeng*)
- VIPC-406 Improvement of infrared image based on directional anisotropic wavelet transform (*Jin*)

9:00 am

- SRV-349 Traffic light recognition and dangerous driving events detection from surveillance video of vehicle camera (*Guan*)

9:10 am

- COIMG-426 A phase-coded aperture camera with programmable optics (*Chen*)
- COLOR-027 Methods of defining a gamut boundary based on a face/vertex encoding (*Green*)
- HVEI-379 Blind quality prediction of stereoscopic 3D images (*Wang*)
- IPAS-198 Brand detection framework in LG wavelet domain (*Mangiatordi*)
- MAAP-282 Graininess appearance of goniochromatic samples in lighting cabinets (*Iacomussi*)
- VIPC-407 New diamond half-pel hexagon search algorithm for block matching motion estimation (*Abdelazim*)

9:15 am

- MWSF-325 Histogram layer, moving convolutional neural networks towards feature-based steganalysis (*Sedighianaraki*)

9:20 am

- IQSP-250 A methodology for perceptual image quality assessment of smartphone cameras – color quality (*Farnand*)
- SRV-350 A combined HOG and deep convolution network cascade for pedestrian detection (*Lipetski*)

Paper Schedule by Day/Time

9:30 am

- COIMG-427 Wavefront correction using self-interference incoherent digital holography (*Bang*)
- COLOR-028 Gamut mapping in RGB colour spaces with the iterative ratios diffusion algorithm (*Farup*)
- IPAS-199 Texture representations in different basis functions for image synthesis using system criteria analysis (*Voronin*)
- MAAP-283 Measurement and evaluation method of orange peel (*Sone*)
- SD&A-380 Pseudo-haptic by stereoscopic images and effects on muscular activity (*Kawai*)
- VIPC-408 Self-example-based edge enhancement algorithm for around view monitor images (*Choi*)

9:40 am

- IQSP-251 Assessing the ability of simulated laboratory scenes to predict the image quality performance of HDR captures (and rendering) of exterior scenes using mobile phone cameras. (*Spooner*)
- MWSF-326 Model based steganography with precover (*Denemark*)
- SRV-352 A multi-scale approach to skin pixel detection (*Roheda*)

9:50 am

- AVM-019 Milpet – The self-driving wheelchair (*Echefu*)
- COIMG-428 Non-iterative image reconstruction for single photon image sensors (*Chan*)
- COLOR-029 Checklist for daltonization methods: Requirements and characteristics of a good recoloring method (*Simon-Liedtke*)
- IPAS-200 2-D octonion discrete fourier transform: Fast algorithms (*Grigoryan*)
- MAAP-284 Enhanced RTI for gloss reproduction (*Fornaro*)
- SD&A-381 The effects of proximity cues on visual comfort when viewing stereoscopic contents (JIST-first) (*Xie*)
- VIPC-409 Adaptive multireference prediction using a symmetric framework (*Liu*)

10:00 am

- SRV-351 Detecting and estimating sound events locations through a microphone array (*Martínez-García*)

10:10 am

- COLOR-030 On the edge: A scalable daltonization method focusing on color contrasts and color edges (*Simon-Liedtke*)

10:30 am

- MWSF-327 A preliminary study on convolutional neural networks for camera model identification (*Bondi*)

10:40 am

- AVM-020 Efficient pre-processor for CNN (*Mody*)
- HVEI-120 Interactions between saliency and utility (*Scott*)

10:50 am

- COIMG-429 Single image super-interpolation using adjusted self-exemplars (*Kim*)
- COLOR-033 Estimating appearance differences of 3D objects with an RGB camera (*Sun*)
- IPAS-201 Artifact suppression in compressed images using residual-based deep convolutional network (*Nam*)
- IQSP-253 Characterization of entire imaging plane spatial frequency response (*Lenchenkov*)
- MAAP-285 Consistent tool-independent virtual material appearance (*Guarnera*)
- SD&A-363 See-through projection 3D display using time-division multiplexing (*Kajimoto*)
- VIPC-411 Semi-supervised learning feature representation for historical Chinese character recognition (*Yu*)

10:55 am

- MWSF-328 Design principles of convolutional neural networks for multimedia forensics (*Bayar*)

11:00 am

- AVM-021 Free-space detection with self-supervised and online trained fully convolutional networks (*Sanberg*)
- HVEI-121 Perceptual evaluation of psychovisual rate-distortion enhancement in video coding (*Duanmu*)

11:10 am

- COIMG-430 Temporal super-resolution for time domain continuous imaging (*Dietz*)
- COLOR-034 A metric for the evaluation of color perceptual smoothness (*Marchessoux*)
- IPAS-202 Full-reference metrics multidistortional analysis (*Ieremeiev*)
- IQSP-254 Reverse-projection method for measuring camera MTF (*Birchfield*)
- MAAP-286 Interactive object surface retexturing using perceptual quality indexes (*Hirai*)
- SD&A-364 Flat autostereoscopic 3D display with enhanced resolution using a static color filter barrier (*Lurk*)
- VIPC-412 Document image classification on the basis of layout information (*Zavalishin*)

11:20 am

- AVM-022 Motion estimation using visual odometry and deep learning localization (*Bag*)
- HVEI-122 Balancing Type I errors and statistical power in video quality assessment (*Brunstrom*)

Paper Schedule by Day/Time

MWSF-329 Image recapturing detection with convolutional and recurrent neural network (*Li*)

11:30 am

COIMG-431 Edge-aware light-field flow for depth estimation and occlusion detection (*Zhou*)

COLOR-035 Towards a perceptually-motivated color space for high dynamic range imaging (*Abebe*)

IPAS-203 ICA-based background subtraction method for an FPGA-SoC (*Carrizosa-Corral*)

IQSP-255 Texture MTF from images of natural scenes (*Branca*)

SD&A-365 Portrait and landscape mode convertible stereoscopic display using parallax barriers (*Minami*)

11:40 am

AVM-023 Deep reinforcement learning framework for autonomous driving (*El Sallab*)

HVEI-123 On the perceptual factors underlying the quality of post-compression enhancement of textures (*Yaacob*)

11:45 am

MWSF-330 Autoencoder with recurrent neural networks for video forgery detection (*D'Avino*)

11:50 am

COIMG-432 Evaluating age estimation using deep convolutional neural nets (*Belver*)

DPMI-256 Camera phone texture preservation measurements with modulation transfer function: An alternative approach for noise estimation of random texture chart images (*Suresh*)

IPAS-204 A robust line segmentation for Arabic printed text with diacritics (*Mohammad*)

SD&A-366 Digital holographic display with two-dimensional and three-dimensional convertible feature by high speed switchable diffuser (*Hong*)

12:00 pm

AVM-024 Automatic glare detection via photometric, geometric, and global positioning information (*Andalibi*)

HVEI-124 Do gaze disruptions indicate the perceived quality of non-uniformly coded natural scenes? (*Rai*)

12:10 pm

COIMG-452 3-D Shape recovery from real images using a symmetry prior (*Jayadevan*)

IQSP-257 The effects of misregistration on the dead leaves cross-correlation texture blur analysis (*Burada*)

SD&A-382 A low-cost static volumetric display based on layered high incidence angle scattering (*Frayne*)

12:20 pm

AVM-025 Pose estimation from rigid face landmarks for driver monitoring systems (*Shankar*)

HVEI-125 Subjective evaluation of distortions in first-person videos (*Bai*)

2:00 pm

PLENARY VR 2.0: Making virtual reality better than reality (*Wetzstein*)

3:30 pm

COIMG-433 Augmenting salient foreground detection using Fiedler vector for multi-object segmentation (*Kucer*)

COLOR-036 Color discrimination threshold for medical test devices (*Hassani*)

DPMI-083 BM3D-HVS: Content-adaptive denoising for improved visual quality (Invited) (*Egiazarian*)

HVEI-126 Image and video compression for mobile: Is my screen small enough? (Invited) (*Delp*)

IQSP-230 Towards a quantitative evaluation of multi-imaging systems (*Vlachomitrou*)

MAAP-277 The future of material communication via the Appearance Exchange Format (AxF) (*Ellens*)

MWSF-339 PRNU in practice (*Bruehs*)

SD&A-367 Real time depth estimation method using hybrid camera system (*Baek*)

3:40 pm

HVEI-127 Business perspectives on perceptually lossless and lossy quality (Invited) (*Daly*)

3:50 pm

COIMG-434 Non-destructive localization of overpaintings in Byzantine miniature illuminations (*Psarrou*)

COLOR-037 Content-dependent adaptation in a soft proof matching experiment (*High*)

HVEI-128 Usage perspectives on perceptually lossless and lossy quality and assessment (Invited) (*Corriveau*)

IPAS-084 Refining raw pixel values using a value error model to drive texture synthesis (*Dietz*)

IQSP-231 Resolution enhancement through superimposition of projected images: An evaluation of the image quality (*Hansen*)

SD&A-368 Pixel based adaptive normalized cross correlation for illumination invariant stereo matching (*Chang*)

4:00 pm

HVEI-129 Subjective assessment and the criteria for visually lossless compression (Invited) (*Wilcox*)

4:10 pm

COIMG-435 Computing height and width of in situ sorghum plants using 2.5d infrared images (*Baharav*)

Paper Schedule by Day/Time

- COLOR-038 Comparisons of measures of blurriness in transparent displays (*Yang*)
- HVEI-130 Masked detection of compression artifacts on laboratory, consumer, and mobile displays (Invited) (*Zhang*)
- IPAS-085 Color interpolation based on colorization for RGB-white color filter array (*Oh*)
- IQSP-232 Evaluation of major factors affecting spatial resolution of gamma-rays camera (*Xie*)
- MAAP-278 Material with visual effects: Study of the gonioapparency of the anodized titanium (*Cridling*)
- SD&A-369 Guide image filtering based disparity range control in stereo vision (*Mun*)

4:20 pm

- HVEI-131 Industry and business perspectives on the distinctions between visually lossless and lossy video quality: Mobile and large format displays (Invited) (*Brunnstrom*)

4:30 pm

- COIMG-436 Non-parametric texture synthesis using texture classification (*Ziga*)
- COLOR-039 The smallest projection optics for the vertical shaped ultra short throw projector (*Takano*)
- IPAS-086 Video frame synthesizing method for HDR video capturing system with four image sensors (*Yamashita*)
- IQSP-233 Development and image quality evaluation of 8K high dynamic range cameras with hybrid log-gamma (*Funatsu*)
- MAAP-279 Adapted modulation transfer function method for characterization and improvement of 2.5D printing. (*PAGE*)

4:50 pm

- COIMG-437 On-the-fly performance evaluation of large-scale fiber tracking (*Yu*)
- COLOR-040 Pareto optimality in primary selection for multiprimary displays (*Xie*)
- DPMI-088 Robust defect pixel detection and correction for Bayer Imaging Systems (*El-Yamany*)
- IQSP-234 Detection of streaks caused by dust in the sheetfed scanners (*Kenzhebalin*)
- MAAP-280 Evaluating an image based multi-angle measurement setup using different reflection models (*Sole*)

5:10 pm

- COIMG-438 Point cloud based approach to biomass feature extraction (*Jin*)
- IQSP-235 Effect of dark current distribution on image quality (*Skorka*)
- MAAP-281 Model-based skin pigment cartography by high-resolution hyperspectral imaging (IJST-first) (*Seroul*)

Wednesday, February 1, 2017

8:50 am

- COLOR-041 Color halftoning based on Neugebauer Primary Area Coverage (*Jiang*)
- HVEI-132 Orientation-ocularly maps: A technique for computer vision (*Restrepo*)
- IMSE-077 Bayer pattern and image quality (*Kunze*)
- IPAS-205 Water region extraction in thermal and RGB sequences using spatiotemporally-oriented energy features (*Ghahremani*)
- IRIACV-258 Efficient visual loop closure detection via moment based global image descriptors (*Erhan*)
- MOBMU-292 Introduction to WLAN-fingerprinting based indoor localization (*Akopian*)
- MWSF-331 Videos versus still images: Asymmetric sensor pattern noise comparison on mobile phones (*Galdi*)
- SD&A-340 Sharpness mismatch and 6 other stereoscopic artifacts measured on 10 Chinese S3D movies (*Vatolin*)

9:10 am

- COLOR-042 Color halftoning based on multi-stage, multi-pass, clustered-DBS (*Xi*)
- ERVR-089 Oculus rift with stereo camera for augmented reality medical intubation training (*Lim*)
- HVEI-133 Evaluation of color prediction methods in terms of least dissimilar asymmetric matching (*Roshan*)
- IMAWM-157 The internet on things: Delivering augmented reality experiences in context (*Gormish*)
- IPAS-206 Cloud and shadow detection using sequential characteristics on multi-spectral satellite images (*Groot*)
- IQSP-238 Feature ranking and selection used in a machine learning framework for predicting uniformity of printed pages (*Nguyen*)
- IRIACV-259 Real-time mobile robot navigation based on stereo vision and low-cost GPS (*Hong*)
- MOBMU-299 Android door and window image based measurements (*Mohammad*)
- SD&A-370 Bringing 3DMap to the 21st century (*Keith*)

9:15 am

- MWSF-332 Linear filter kernel estimation based on digital camera sensor noise (*Liu*)

9:30 am

- COLOR-43 On large local error accumulation in multilevel error diffusion (IJST-first) (*Eschbach*)
- ERVR-090 Virtual reality instructional modules in education based on gaming metaphor (*Sharma*)

Paper Schedule by Day/Time

HVEI-134	Characterization of spatiotemporal fluctuation in absorbed light energy by an array of interleaved photosensitive elements (<i>Peyvandi</i>)	ERVR-093	The Destiny-class CyberCANOE- a surround screen, stereoscopic, cyber-enabled collaboration analysis navigation and observation environment (<i>Kawano</i>)
IMSE-078	Accurate joint geometric camera calibration of visible and far-infrared cameras (<i>Shibata</i>)	IMAWM-158	MS-Celeb-1M: A review of large-scale face recognition (Invited) (<i>Guo</i>)
IPAS-207	Thermal facial signatures for state assessment during deception (<i>Powar</i>)	IPAS-209	Real-time estimation of the 3D transformation between images with large viewpoint differences in cluttered environments (<i>van de Vouw</i>)
IQSP-239	Real-time print quality diagnostics (<i>Xiao</i>)	IQSP-240	UHD quality analyses at various viewing conditions (<i>Lee</i>)
IRIACV-260	The acceleration effect to the perception of velocity difference in passive elbow flexion movement (<i>Akatsuka</i>)	IRIACV-262	Application of big data analytics for recognition of microbial colonies from hyperspectral images (<i>Yoon</i>)
MOBMU-293	Usability of smart mobile micro photonic sensor systems for industrial and non-industrial quality assurance (<i>Dittrich</i>)	SD&A-374	Stereo rendering of photorealistic precipitation (<i>Hussain</i>)
SD&A-371	Subjective and objective study of the relation between 3D and 2D views based on depth and bit rate (<i>Appina</i>)	10:55 am	
9:40 am		MWSF-336	Scalable processing history detector for JPEG images (<i>Boroumand</i>)
MWSF-333	PRNU-based forgery detection with discriminative random fields (<i>Chakraborty</i>)	11:00 am	
9:50 am		HVEI-137	A neurally-inspired algorithm for detecting ordinal depth from motion signals in video streams (Invited) (<i>Livitz</i>)
COLOR-044	Edge-preserving error diffusion for multi-toning based on dual quantization (<i>Kiyotomo</i>)	MOBMU-296	High quality virtual lighting using image-based-lighting and projection onto meshes generated from Lidar and SfM Point Clouds (<i>Hasche</i>)
DPMI-079	Interferometric measurement of sensor MTF and crosstalk (<i>Georgiev</i>)	11:10 am	
ERVR-092	Drawing towards virtual reality (<i>Dolinsky</i>)	COLOR-046	Page classification for print imaging pipeline (<i>Xu</i>)
HVEI-135	Robust dynamic range computation for high dynamic range content (<i>Hulusic</i>)	ERVR-094	CAVE versus head-mounted displays: On-going thoughts (<i>Mestre</i>)
IPAS-208	Face spoofing detection based on local binary descriptors (<i>Tsai</i>)	IPAS-210	Camera-to-model back-raycasting for extraction of RGBD images from pointclouds (<i>Javan Hemmat</i>)
IRIACV-261	Targeted intelligent autonomous robotics contest: The European Roboathon (<i>Röning</i>)	IQSP-241	Image quality assessment for holographic display (<i>Seo</i>)
MOBMU-294	Blackmagic production camera raw color investigation by spectral analysis of Macbeth color charts (<i>Hasche</i>)	IRIACV-263	Weaving pattern recognition of ancient Chinese textiles by regular bands analysis (<i>Chan</i>)
SD&A-373	Improved depth of field analysis of multilayer displays (<i>Gotoda</i>)	SD&A-372	Utilization of stereoscopic 3D images in elementary school social studies classes (<i>Shibata</i>)
10:10 am		11:20 am	
MOBMU-295	Liquid crystal lens characterization for integrated depth sensing and all in focus imaging application (<i>Emberger</i>)	MOBMU-297	A billion words to remember (<i>Nagy</i>)
10:30 am		MWSF-337	Deciphering severely degraded license plates (<i>Agarwal</i>)
HVEI-136	GPU-accelerated vision modeling with the HPE cognitive computing toolkit (Invited) (<i>Chandler</i>)	11:30 am	
MWSF-335	Sensitivity of different correlation measures to print-and-scan process (<i>Tkachenko</i>)	COLOR-047	Indirect periodic disturbance compensator using feedforward control for image noises (<i>Kaneko</i>)
10:50 am		DPMI-081	TIK: A time domain continuous imaging testbed using conventional still images and video (<i>Dietz</i>)
COLOR-045	Selecting best ink color for sparse watermark (<i>Reed</i>)	ERVR-095	Distributed rendering using NVIDIA OptiX (<i>McCarthy</i>)
DPMI-080	Silicon retina technology (Invited) (<i>Delbruck</i>)	HVEI-138	Computational estimation of scene structure through texture gradient cues (Invited) (<i>Tyler</i>)

Paper Schedule by Day/Time

- IMAWM-159 Evaluation of Hadoop and HPC for multimedia big data analysis (*Chinta*)
- IPAS-212 Depth image object extraction approach based on improved fractal dimension (*Cao*)
- IQSP-242 Subjective viewer preference model for automatic HDR down conversion (*Lenzen*)
- IRIACV-264 Finding a needle in a haystack: Recognizing surgical instruments through vision and manipulation (*Zhou*)
- SD&A-375 360° 3D capture: Meeting the need in VR (*Macmillan*)

11:40 am

- MOBMU-298 Demographic prediction based on mobile user data (*Podoyntsina*)

11:45 am

- MWSF-338 PCB surface fingerprints based counterfeit detection of electronic devices (*Iqbal*)

11:50 am

- COLOR-048 3D halftoning (*Mao*)
- ERVR-096 Laser illuminated projectors and the technological advancements brought forth to immersive environments (*Rains*)
- IMAWM-160 Creating the world's largest real-time camera network (*Dailey*)
- IMSE-082 CMOS image sensor pixel design and optimization (*Fowler*)
- IQSP-243 A foveated just noticeable difference model for virtual reality (*Deng*)
- IRIACV-265 Automatic detection of plant roots in multispectral images (*Srinivas*)

12:00 pm

- HVEI-139 Learning visual representations for active perception (Invited) (*Olshausen*)
- MOBMU-300 Optimizing video transmission for mobile devices (*Lee*)

12:10 pm

- ERVR-097 New VR navigation techniques to reduce cybersickness (*Kemeny*)
- IMAWM-161 Multimedia instant messaging with real-time attribute-based encryption (*Pan*)
- IRIACV-266 Education in industrial machine vision in Upper Austria University of Applied Sciences (bachelor/master) with respect to the needs by the European industry and automation engineering (*Niel*)

12:20 pm

- MOBMU-308 Comparative visualization of the geometry of a hollow box girder using 3D-LiDAR – Part 2: Reconstruction of a 3D geometric model (*Maack*)

2:00 pm

- PLENARY Designing VR video camera systems (*Cabral*)

3:30 pm

- COLOR-049 What makes hue special? (*Farup*)
- HVEI-140 Simulation of the biological information available for relative position acuity (*Jiang*)
- IMAWM-162 Distracted driver detection: Deep learning vs handcrafted features (*Hssayeni*)
- IMSE-178 High sensitivity and high readout speed electron beam detector using steep pn Junction Si diode for low acceleration voltage (*Koda*)
- IQSP-244 A framework for auto-exposure subjective comparison (*Oh*)
- IRIACV-267 Unsupervised video segmentation and its application to region-based local contrast enhancement (*Park*)
- MOBMU-301 Investigation of three security relevant aspects of Android eHealth Apps - permissions, storage properties, and data transmission (*Knackmuss*)
- SD&A-105 Designing a cloud-based 3D visualization engine for smart cities (*Holliman*)
- VDA-383 Topological analysis at the extreme scale: Finding features in large data sets (*Weber*)

3:50 pm

- COLOR-050 Revealing the Dark Ages – Imaging erased manuscripts (*Knox*)
- HVEI-141 Can 'crispeneing' be explained by contrast gain? (*Kane*)
- IMAWM-163 Logo recognition using data augmentation techniques (*Mas Montserrat*)
- IMSE-179 A full-resolution 8K single-chip portable camera system (*Nakamura*)
- IQSP-245 Autofocus measurement for imaging devices (*Robisson*)
- IRIACV-268 High-precision 3D sensing with hybrid light field & photometric stereo approach in multi-line scan framework (*Antensteiner*)
- MOBMU-302 Privacy issues in mobile health applications - Assessment of current Android Health Apps (*Hoppe*)
- SD&A-106 Interactive computer graphics, stereo and VR practice at the Electronic Visualization Laboratory University of Illinois at Chicago (*Brown*)

4:10 pm

- COLOR-051 Image quality for visually impaired? (*Triantaphillidou*)
- ERVR-107 Designing at the Advanced Visualization Lab at Indiana University (*Dolinsky*)
- HVEI-142 Defining self-similarity of images using features learned by convolutional neural networks (*Brachmann*)
- IMAWM-164 Detection and characterization of Coordinate Measuring Machine (CMM) probes using deep networks for improved quality assurance of machine parts (*Nair*)

Paper Schedule by Day/Time

- IMSE-180 Filter selection for multispectral imaging optimizing spectral, colorimetric and image quality (*Wang*)
- IQSP-246 Auto Focus Performance – What can we expect from today's cameras? (*Artmann*)
- IRIACV-269 Line-scan stereo using binary descriptor matching and regularization (*Štolc*)
- MOBMU-303 A forensic mobile application designed for both steganalysis and steganography in digital images (*Li*)

4:30 pm

- COLOR-052 Lights, camera, metamer failure (*Pines*)
- ERVR-108 Exploring Calit2 (*Schulze*)
- HVEI-143 Determining the influence of image-based cues on human skin gloss perception (*Wang*)
- IMAWM-165 Robust head detection with CNN (*Chen*)
- IMSE-181 The challenge of shot-noise limited speckle patterns statistical analysis (*Tualle*)
- IQSP-247 Autofocus analysis: Latency and sharpness (*Passarella*)
- IRIACV-270 Traffic Camera Dangerous Driver Detection (TCD3™): Contextually aware heuristic feature & OFA density-based computer vision with movement machine learning analysis of live streaming traffic camera footage to identify anomalous & dangerous driving (*Prasad*)
- MOBMU-304 Pokemon Go – A forensic analysis (*Creutzburg*)
- VDA-384 An interactive tool for Analyzing the Correlation, Uncertainty, and Clustering (ACUC) over ensembles in climate dataset (*Abedzadeh*)

4:36 pm

- VDA-385 Analysis enhanced particle-based flow visualization (*Shi*)

4:42 pm

- VDA-450 Constellations of movement: An interactive application to visualise research in motor imagery decoding (*Rogers*)

4:50 pm

- COLOR-053 What we see and what we know: Partners in human vision (*McCann*)
- HVEI-144 Writer identification in modern and historical documents via binary pixel patterns, Kolmogorov-Smirnov test and Fisher's method (JIST-first) (*Shaus*)
- IMSE-182 Overview of machine vision standards (*Darmont*)
- IRIACV-271 An in-situ defect detection system for Big Area Additive Manufacturing using laser profilometry (*Goin*)
- MOBMU-305 Computation of equidistant curve for the image with blurred contours (*Semenishchev*)
- SD&A-109 3D-Stereoscopic immersive analytics projects at Monash University and University of Konstanz (*Sommer*)

5:10 pm

- HVEI-145 CNN-based transfer learning for historical Chinese seal character recognition based on artificial random samples (*Shang*)
- IMSE-183 Hot pixel rate behavior as pixel sizes go to 1 micron (*Chapman*)
- IRIACV-272 Outlier detection in large-scale traffic data by naïve bayes method and Gaussian mixture model method (*Lam*)
- MOBMU-306 Prune the convolutional neural networks with Sparse Shrink (*Li*)
- SD&A-110 Image distortions in large-scale immersive display systems – Cylinder and wedge displays (*Woods*)

5:20 pm

- IMSE-184 Performance evaluation of the thick pinhole gamma rays diagnostic system (*Xie*)

5:30 pm

- COIMG-439 Non-iterative joint demosaicing and super resolution framework (*Petrova*)
- COIMG-440 Localized high dynamic range plenoptic image compression (*Chang*)
- COIMG-441 Image-based age estimation: Comparing hand crafted and deep features (*Dornaika*)
- COIMG-442 Compressive light field display using scattering polarizer (*Lee*)
- COIMG-443 High-resolution image reconstruction for PET using local and non-local regularizations (*Ren*)
- COIMG-444 3D reconstruction based multiple view depth generation using heterogeneous cameras (*Shin*)
- COIMG-445 Deep convolutional neural networks for the classification of snapshot mosaic hyperspectral imagery (*Fotiadou*)
- COIMG-446 Space-variant smoothing in median-regularized reconstruction for transmission tomography (*Jung*)
- COIMG-447 A viewing direction control camera without mechanical motion based on computational imaging (*Teraya*)
- COIMG-448 The human sclera and pupil as the calibration targets (*Choi*)
- DPMI-075 A Canon hack development kit implementation of time domain continuous imaging (*Long*)
- DPMI-076 Advanced HDR fusion method for image sensor with variable pixel exposure (*Uvarov*)
- IPAS-087 Search the optimal border for combination of image pairs using neural networks (*Semenishchev*)
- IPAS-211 Feature representation learning by rank ordered autoencoder for multi-camera person re-identification (*Makov*)
- IPAS-213 Change detection from remote sensing images based on fractional integral and improved FCM (*Wang*)

Paper Schedule by Day/Time

IPAS-214	Non-blind image deconvolution using a sampling without replacement (<i>Han</i>)
IPAS-215	Alpha-rooting method of gray-scale image enhancement in the quaternion frequency domain (<i>Grigoryan</i>)
IPAS-217	What makes HDR the contents more realistic? Peak-luminance enhancement using the loading effect for OLED displays (<i>Woo</i>)
IQSP-236	Solid-mottle method for measuring in laser-printers (<i>Ko</i>)
IQSP-248	Estimation and compensation of reconstructed image in digital holographic display (<i>Kim</i>)
MOBMU-307	Automated segmentation of ophthalmological OCT images (<i>Müller</i>)
MOBMU-309	Concept for software-based configuration of the organizational and technical security of a company of arbitrary size (<i>Möller</i>)
MOBMU-310	Facilitated polling approach for SMS and IP messaging applications (<i>Mahadik</i>)
MOBMU-311	A multi-platform characterization of delays inherent in Message Queue Telemetry Transport (MQTT) communications. (<i>Bendele</i>)
MOBMU-312	Semi-automatic generation of multilingual lecture notes – Wikipedia books on different subjects in various languages (<i>Creutzburg</i>)
MOBMU-313	The strange world of keyloggers – An overview (<i>Creutzburg</i>)
MOBMU-314	The study of algorithms reducing the level of out-of-band radiation and inter carrier interference of the OFDM signal (<i>Fedosov</i>)
MOBMU-315	Two-tier state-machine programming for messaging applications (<i>Morales</i>)
SD&A-376	Analysis of retinal images for retinal projection type super multi-view 3D head-mounted display (<i>Emoto</i>)
SD&A-377	A new design and algorithm for lenticular lenses display (<i>de la Barré</i>)

Thursday, February 2, 2017

8:50 am

COLOR-054	Extraordinary perceptual color stability in low cost, real time color image compression inspired by structure tensor analysis (<i>Lebowski</i>)
HVEI-146	Comparison of visual discomfort and visual fatigue between HMD and smartphone (<i>Suk</i>)
IMAWM-166	Analytics for body worn cameras (Invited) (<i>Fan</i>)
IMSE-185	Octagonal CMOS image sensor for endoscopic applications (<i>Reis</i>)
VDA-386	Declarative guide creation (<i>Cottam</i>)

9:10 am

3DIPM-001	A 3D mesh image quality metric based on features fusion (<i>Chetouani</i>)
COLOR-055	Sky color enhancement of photographic images (<i>Zeng</i>)
ERVR-098	VR journeys from the dark ages to a bright future (<i>Dawe</i>)
HVEI-147	Measuring visually induced motion sickness using wearable devices (<i>Liu</i>)
IMSE-186	Optimization of CMOS image sensor utilizing variable temporal multi-sampling partial transfer technique to achieve full-frame high dynamic range with superior low light and stop motion capability (<i>Kabir</i>)
VDA-387	Visual-interactive semi-supervised labeling of human motion capture data (<i>Bernard</i>)

9:30 am

3DIPM-002	3D blind mesh quality assessment index (<i>Nouri</i>)
COLOR-056	A novel colour hessian and its applications (<i>Tahery</i>)
HVEI-148	Developmental changes in ambient and focal visual processing strategies. (<i>Krishna</i>)
IMAWM-167	Click-based interactive segmentation with graph cut (<i>Tai</i>)
IMSE-187	A lateral electric field charge modulator with bipolar-gates for time-resolved imaging (<i>Morikawa</i>)
VDA-388	Visual-interactive creation and validation of text clustering workflows to explore document collections (<i>Ruppert</i>)

9:50 am

3DIPM-003	A magnifier on accurate depth jumps (<i>Hach</i>)
COLOR-057	A color image model with applications to denoising (<i>Fuller</i>)
HVEI-149	Gaze-contingent centers-surround fusion of infrared images to facilitate visual search for human targets (IJST-first) (<i>Glaholt</i>)
IMAWM-168	Drone Detection by acoustic signature identification (<i>Bernardini</i>)

Paper Schedule by Day/Time

- IMSE-188 A 128x128, 34 μ m pitch, 8.9mW, 190mK NETD, TECless Uncooled IR bolometer image sensor with columnwise processing (*Alacoque*)
- VDA-389 AssisTag: Seamless integration of content-based and keyword-based image exploration for category search (IJST-first) (*Mizuno*)

10:10 am

- ERVR-099 The Qlik Environment (*Margolis*)
- HVEI-150 Evaluation and prediction of evoked emotions induced by image manipulations (*Yuan*)
- IMAWM-169 Aesthetics of fashion photographs: Effect on user preferences (*Li*)

10:50 am

- 3DIPM-004 3D microscopic image construction using high dynamic range imaging (*Zheng*)
- COLOR-058 Addressing the colorimetric redundancy in 11-ink color separation (*Nyström*)
- ERVR-103 The Reality Wall: The aesthetics of reality disambiguation in AR/VR (*Lichy*)
- IMAWM-170 Local boosted features for illumination invariant face recognition (*Essa*)
- IMSE-189 Residual bulk image characterization using photon transfer techniques (*Crisp*)
- VDA-390 Megacity: A collaborative virtual reality environment for emergency response, training, and decision making (*Sharma*)

11:00 am

- HVEI-151 Measurement problems and measurement strategies for capturing the rich experience of art (Invited) (*Carbon*)

11:10 am

- 3DIPM-005 Digitized 3D mesh segmentation based on curvature analysis (*Gauthier*)
- COLOR-059 Spectral band selection using a genetic algorithm based wiener filter estimation method for reconstruction of munsell spectral data (*Gouton*)
- ERVR-104 Decoupling of real and digital content in projection based augmented reality systems using time multiplexed image capture (IJST-first) (*Soomro*)
- IMAWM-171 High precision 3D reconstruction of the human face (*Wang*)
- IMSE-190 RTS and photon shot noise reduction based on maximum likelihood estimate with multi-aperture optics and semi-photon-counting-level CMOS image sensors (*Ishida*)
- VDA-391 Display systems for visualization and simulation in virtual environments (*Wischgoll*)

11:30 am

- 3DIPM-006 Small scale surface profile recovery using a tunable lens based system (*Angot-Petit*)
- COLOR-060 Illumination and reflectance spectra separation of hyperspectral image data under multiple illumination conditions (*Chen*)
- ERVR-100 A survey: Tools for human motion synthesis (*Yan*)
- HVEI-152 The gist of beauty: An investigation of aesthetic perception in rapidly presented images (Invited) (*Mullin*)
- IMAWM-172 Chromatic domain phase features with gradient and texture for efficient human detection (*Ragb*)
- IMSE-191 Linearity analysis of a CMOS image sensor (*Wang*)
- VDA-392 Ray traced volume clipping using multi-hit BVH Traversal (*Zellmann*)

11:50 am

- COLOR-061 Multispectral face recognition using hybrid feature (*Gouton*)
- ERVR-101 Exploring body gestures as natural user interface for flying in a virtual reality game with Kinect (*Tong*)
- IMAWM-173 A real-time smile elegance detection system: A feature-level fusion and ranking SVM based approach (*Lin*)
- IMSE-196 Automotive imaging (*Denny*)
- VDA-393 Effectiveness of feature-driven storytelling in 3D time-varying data visualization (IJST-first) (*Lu*)

12:00 pm

- HVEI-153 Gaze patterns in art viewing and their dependency on expertise and image characteristics (Invited) (*Fedorovskaya*)

12:10 pm

- ERVR-102 Soft robotic glove for kinesthetic haptic feedback in virtual reality environments (*adhav*)

2:00 pm

- 3DIPM007 A comparison of stereo matching algorithms on multi-core digital signal processor platform (*Menant*)
- COLOR-062 Interactive Workshop: How can color imaging provide us with powerful insights? (*Lebowski*)
- HVEI-154 Imaging human vision: An artistic perspective (Invited) (*Pepperell*)
- IMAWM-174 MU, the ultra mobile visual analytic sensor for toys and IOTs (*Yu*)
- IMSE-192 FPGA platform for testing a real-time tone-mapping algorithm based on a Mantissa-exponent representation (*Shahnovich*)
- VDA-394 A visual and statistical benchmark of graph sampling methods (*Zhang*)

Paper Schedule by Day/Time

2:20 pm

- 3DIPM-008 Viewing angle enhancement of a real-time integral imaging system using multi-directional projections and GPU parallel processing (*Alam*)
- IMAWM-175 An imaging approach to online progressive addition lens retrieval (*Li*)
- IMSE-194 Fast, low-complex, non-contact motion encoder based on the NSIP concept (*Astrom*)
- VDA-395 Inferring partial orders of nodes for hierarchical network layout (JIST-first) (*Wu*)

2:30 pm

- HVEI-155 Art training matters: Enhancement of spatial cognition and brain connectivity (Invited) (*Likova*)

2:40 pm

- IMAWM-176 Are mobile phones changing the order behavior and content for printed photo products? (*Fageth*)
- IMSE-195 In the quest of vision-sensors-on-chip: Pre-processing sensors for data reduction (*Rodríguez-Vázquez*)
- VDA-396 Closest point sparse octree for surface flow visualization (*Kim*)

3:00 pm

- HVEI-156 Trading conversations between science and art: When musical improvisation enters the dialogue on stage (Invited) (*Lopez-Gonzalez*)
- IMAWM-177 Texture re-rendering tool for re-mixing indoor scene images (*Liu*)
- VDA-397 Accelerating advection via approximate block exterior flow maps (*Bleile*)