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Martin Winken, Detlev Marpe, Heiko Schwarz, Thomas Wiegand, Fraunhofer Institute for Telecommunications - Heinrich Hertz Institute, Germany

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Junsong Yuan, Zhu Li, Northwestern University, United States; Yun Fu, University of Illinois at Urbana-Champaign, United States; Ying Wu, Northwestern University, United States; Thomas S. Huang, University of Illinois at Urbana-Champaign, United States

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Eduardo Valle, Équipes Traitement des Images et du Signal, France; Matthieu Cord, Laboratoire d'Informatique de Paris 6, France; Sylvie Philipp-Foliguet, Équipes Traitement des Images et du Signal, France

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Xi Zhang, Dong Fang Ge, University of Electro-Communications, Japan

MA-P6.2: CYCLIC FILTER BANK IMPLEMENTATIONS OF SYMMETRIC EXTENSION FOR SUBBAND/WAVELET IMAGE COMPRESSION
Jianyu Lin, University of Sydney, Australia; Mark Smith, Purdue University, United States

MA-P6.3: ROBUST BLIND SEPARATION OF STATISTICALLY DEPENDENT SOURCES USING DUAL TREE WAVELETS
Ivica Kopriva, Institute Rudjer Boskovich, Croatia; Damir Sersic, Faculty of Electrical Engineering and Computing, Croatia

MA-P6.4: SEGMENTATION-DRIVEN DIRECTION-ADAPTIVE DISCRETE WAVELET TRANSFORM
Adrian Munteanu, Oana Maria Surdu, Jan Cornelis, Peter Schelkens, Vrije Universiteit Brussel, Belgium

MA-P6.5: A SPATIO-TEMPORAL AUTOREGRESSIVE FRAME RATE UP CONVERSION SCHEME
Yongbing Zhang, Debin Zhao, Harbin Institute of Technology, China; Xiangyang Ji, Chinese Academy of Sciences, China; Ronggang Wang, France Télécom R&D Beijing, China; Xilin Chen, Chinese Academy of Sciences, China

MA-P6.6: IMAGE RESOLUTION ENHANCEMENT USING INTER-SUBBAND CORRELATION IN WAVELET DOMAIN
Yinji Piao, LI-Hong Shin, HyunWook Park, Korea Advanced Institute of Science and Technology, Republic of Korea

MA-P6.7: MODE SELECTION AND OPTIMAL RATE CONTROL FOR VIDEO CODING USING AN AND-OR TREE REPRESENTATION
Tsung-Han Lee, Wen-Liang Hwang, Academia Sinica, Taiwan

MA-P6.8: A THREE-STEP NONLINEAR LIFTING SCHEME FOR LOSSLESS IMAGE COMPRESSION
Gemma Piella, Universitat Pompeu Fabra, Spain; Beatrice Pesquet-Popescu, ENST, France

MA-P6.9: AN ADAPTIVE MULTIRESOLUTION APPROACH TO FINGERPRINT RECOGNITION
Amina Chebira, Carnegie Mellon University, United States; Luis P. Coelho, Carnegie Mellon University / University of Pittsburgh, United States; Aliaksei Sandryhaila, Stephen Lin, William G. Jenkinson, Jeremiah MacSleyne, Christopher Hoffman, Philipp Cuadra, Charles Jackson, Markus Puschel, Jelena Kovacevic, Carnegie Mellon University, United States

MA-P6.10: STATISTICALLY DRIVEN SPARSE IMAGE APPROXIMATION
Rosa M. Figueras i Ventura, Eero Simoncelli, New York University, United States

MA-P6.11: ROBUST MULTISCALE AM-FM DEMODULATION OF DIGITAL IMAGES
Víctor Murray, University of New Mexico, United States; Paul Rodríguez V., Los Alamos National Laboratory, United States; Marios S. Pattichis, University of New Mexico, United States

MA-P6.12: A GENERAL FRAME-BY-FRAME WAVELET TRANSFORM ALGORITHM FOR A THREE-DIMENSIONAL ANALYSIS WITH REDUCED MEMORY USAGE
Jose Oliver, Technical University of Valencia, Spain; Otoniel López, Miguel Martinez-Racha, Manuel P. Malumbres, Miguel Hernández University, Spain

MA-P7: Motion Detection and Estimation I

MA-P7.1: ROTATION DETECTION USING THE CURL EQUATION
Daire Lennon, Naomi Harte, Anil Kokaram, Trinity College Dublin, Ireland

MA-P7.2: EFFICIENT GLOBAL MOTION ESTIMATION USING FIXED AND RANDOM SUBSAMPLING PATTERNS
Hussein Alzoubi, David Pan, University of Alabama in Huntsville, United States

MA-P7.3: SUBSPACE EXTENSION TO PHASE CORRELATION APPROACH FOR FAST IMAGE REGISTRATION
Jinchang Ren, University of Bradford, United Kingdom; Theodore Vlachos, University of Surrey, United Kingdom; Jianmin Jiang, University of Bradford, United Kingdom

MA-P7.4: GLOBALLY OPTIMAL MULTIMODAL RIGID REGISTRATION: AN ANALYTIC SOLUTION USING EDGE INFORMATION
Jeff Orchard, University of Waterloo, Canada

MA-P7.5: MOTION ESTIMATION USING TANGENT DISTANCE
Jonathan Fabrizio, Severine Dubuisson, Laboratoire d'Informatique de Paris 6, France

MA-P7.6: ENERGETIC PARTICLE FILTER FOR ONLINE MULTIPLE TARGET TRACKING
Abir El Abed, Severine Dubuisson, Dominique Bereziat, Laboratoire d'Informatique de Paris 6 (LIP6), France

MA-P7.7: MOTION CORRECTION STRATEGIES FOR INTERVENTIONAL ANGIOGRAPHY IMAGES: A COMPARATIVE APPROACH
Dinesh Kumar, Eigen, United States; Dingngang Shen, University of Pennsylvania School of Medicine, United States; Liyang Wei, Eigen, United States; Ram Turlapati, Theda Clark Hospital, United States; Jasjit Suri, Eigen, United States

MA-P7.8: TEMPLATE TRACKING WITH OBSERVATION RELEVANCE DETERMINATION
Ioannis Patras, Queen Mary, University of London, United Kingdom; Edwin Hancock, University of York, United Kingdom

MA-P7.9: LOCAL OR GLOBAL 3D FACE AND FACIAL FEATURE TRACKER.
José Alonso Ybañez Zepeda, E.N.S.T., France; Franck Davoine, U.T.C., France; Maurice Charbit, E.N.S.T., France

MA-P7.10: TIME-VARYING LINEAR AUTOREGRESSIVE MODELS FOR SEGMENTATION
Charles Florin, Siemens Corporate Research, United States; Nikos Paragios, Ecole Centrale de Paris, France; Gareth Funka-Lea, Siemens Corporate Research, United States; James Williams, Siemens Medical Solutions, United States

MA-P7.11: FUNDAMENTAL MATRIX ESTIMATION WITHOUT PRIOR MATCH
Nicolas Noury, INRIA Lorraine, France; Frédéric Sur, INPL, France; Marie-Odile Berger, INRIA Lorraine, France

MA-P8: Image and Video Enhancement

MA-P8.1: BLOCK-COORDINATE GAUSS-NEWTON/REGRESSION METHOD FOR IMAGE REGISTRATION WITH EFFICIENT OUTLIER DETECTION
Dong Sik Kim, Hankuk University of Foreign Studies, Republic of Korea; Kiryung Lee, University of Illinois at Urbana-Champaign, United States

MA-P8.2: SKIN-AWARE LOCAL CONTRAST ENHANCEMENT
Tarik Arici, Salih Dikbas, Georgia Institute of Technology, United States

MA-P8.3: TELEGRAPH-DIFFUSION OPERATOR FOR IMAGE ENHANCEMENT
Vadim Ratner, Yehoshua Zeevi, Technion - Israel Institute of Technology, Israel

MA-P8.4: REDUCING ILLUMINATION BASED ON NONLINEAR GAMMA CORRECTION
Yihua Shi, Jinfeng Yang, Renbiao Wu, Civil Aviation University of China, China

MA-P8.5: BIASED IMAGE CORRECTION BASED ON EMPIRICAL MODE DECOMPOSITION
Arnaud Ogier, Thierry Dorval, Auguste Genovesio, institut Pasteur Korea, Republic of Korea

MA-P8.6: ENHANCEMENT OF MEDICAL IMAGES BY THE PAIRED TRANSFORM
Fatma T. Arslan, Artyon M. Grigoryan, University of Texas at San Antonio, United States

MA-P8.7: RESEARCH ON OFFLINE PALMPRINT IMAGE ENHANCEMCENT
Yan Zheng, GuangShun Shi, NanKai University, China; Lin Zhang, Institute of Criminal Technology, China; QingRen Wang, NanKai University, China; YaJing Zhao, University of Texas at Dallas, United States

MA-P8.8: IMAGE ENHANCEMENT USING SORTED HISTOGRAM SPECIFICATION AND POCS POSTPROCESSING
Il-Lyong Jung, Chang-Su Kim, Korea University, Republic of Korea

MA-P8.9: COMPRESSED SENSING IMAGE RECONSTRUCTION VIA RECURSIVE SPATIALLY ADAPTIVE FILTERING
Karen Egiazarian, Alessandro Foi, Vladimir Katkovnik, Tampere University of Technology, Finland

MA-P8.10: IMAGE INPAINTING BASED ON GEOMETRICAL MODELING OF COMPLEX WAVELET COEFFICIENTS
Gang Hua, Michael Orchard, Rice University, United States

MA-P8.11: AUTOMATED SEGMENTATION OF TORN FRAMES USING THE GRAPH CUTS TECHNIQUE
David Corrigan, Naomi Harte, Anil Kokaram, Trinity College Dublin, Ireland

MA-P8.12: MULTI-SCALE SEMI-TRANSPARENT BLOTCH REMOVAL ON ARCHIVED PHOTOGRAPHS USING BAYESIAN MATTING TECHNIQUES AND VISIBILITY LAWS
Andrew Crawford, Università degli Studi di Roma La Sapienza, Italy; Vittoria Bruni, Consiglio Nazionale delle Ricerche, Italy; Anil Kokaram, University of Dublin, Trinity College, Ireland; Domenico Vitulano, Consiglio Nazionale delle Ricerche, Italy

MP-L1: Distributed Source Coding I: Low Complexity Video Coding

MP-L1.1: INVERSE BIT PLANE DECODING ORDER FOR TURBO CODE BASED DISTRIBUTED VIDEO CODING
Yuri Vatis, Sven Klomp, Joern Ostermann, Leibniz Universität Hannover, Germany

MP-L1.2: ENCODER RATE CONTROL FOR TRANSFORM DOMAIN WYNER-ZIV VIDEO CODING
Catarina Brites, Fernando Pereira, IST - IT, Portugal

MP-L1.3: OVERLAPPED QUASI-ARITHMETIC CODES FOR DISTRIBUTED VIDEO CODING
Xavi Artigas, Technical University of Catalonia, Spain; Simon Malinowski, IRISA / University of Rennes, France; Christine Guillemot, IRISA / INRIA, France; Luis Torres, Technical University of Catalonia, Spain

MP-L1.4: ROBUST MULTI-FRAME SIDE INFORMATION GENERATION FOR DISTRIBUTED VIDEO CODING
Ligang Lu, Da-ke He, Ashish Jagmohan, IBM Research, United States

MP-L1.5: ANALYZING SYMBOL AND BIT PLANE-BASED LDPC IN DISTRIBUTED VIDEO CODING
Ronald Westerlaken, Delft University of Technology, Netherlands; Stefan Borchert, Delft University of Technology / Philips Research, Netherlands; Rene Klein Gunnewiek, Philips Research Eindhoven, Netherlands; Inald Lagendijk, Delft University of Technology, Netherlands

MP-L1.6: RATE-DISTORTION ANALYSIS AND BIT ALLOCATION STRATEGY FOR MOTION ESTIMATION AT THE DECODER USING MAXIMUM LIKELIHOOD TECHNIQUE IN DISTRIBUTED VIDEO CODING
Ivy Tseng, Antonio Ortega, University of Southern California, United States

MP-L1.7: COMPLEXITY-RATE-DISTORTION ANALYSIS OF BACKWARD CHANNEL AWARE WYNER-ZIV VIDEO CODING
Limin Liu, Purdue University, United States; Zhen Li, Thomson, United States; Edward Delp, Purdue University, United States

MP-L1.8: SYMMETRIC DISTRIBUTED CODING OF STEREO VIDEO SEQUENCES
Marco Tagliasacchi, Giorgio Prandi, Stefano Tubaro, Politecnico di Milano, Italy

MP-L2: Image And Video Segmentation II: Texture Segmentation

MP-L2.1: PATTERNED FABRIC DEFECT DETECTION USING A MOTIF-BASED APPROACH
Henry Y.T. Ngan, Grantham K.H. Pang, Nelson H.C. Yung, University of Hong Kong, Hong Kong SAR of China

MP-L2.2: A NONLINEAR FEATURE EXTRACTOR FOR TEXTURE SEGMENTATION
Fok Hing Chi Tivive, Abdesselam Bouzerdoum, University of Wollongong, Australia

MP-L2.3: BAYESIAN EXAMPLE BASED SEGMENTATION USING A HYBRID ENERGY MODEL.
Claire Gallagher, Anil Kokaram, Trinity College Dublin, Ireland

MP-L2.4: TEXTURE-BASED INFRARED IMAGE SEGMENTATION BY COMBINED MERGING AND PARTITIONING
W. Brendan Blanton, Kenneth Barner, University of Delaware, United States

MP-L2.5: STRUCTURAL TEXTURE SEGMENTATION USING AFFINE SYMMETRY
Heechan Park, Graham Martin, Abhir Bhalerao, University of Warwick, United Kingdom

MP-L2.6: TEXTURE CLASSIFICATION BASED ON DISCRIMINATIVE FEATURES EXTRACTED IN THE FREQUENCY DOMAIN
Antonella Di Lillo, Brandeis University, United States; Giovanni Motta, Hewlett-Packard, United States; James A. Storer, Brandeis University, United States

MP-L2.7: 2D AND 3D DEFORMABLE MODELS WITH NARROW BAND REGION ENERGY
Julien Mille, Romuald Boné, Pascal Makris, Hubert Cardot, Université François Rabelais de Tours, France

MP-L2.8: 2D LATTICE EXTRACTION FROM STRUCTURED ENVIRONMENTS
Thommen Korah, Christopher Rasmussen, University of Delaware, United States

MP-L3: Interpolation and Superresolution I

MP-L3.1: FAST SUPER-RESOLUTION FOR RATIONAL MAGNIFICATION FACTORS
Stéphane Pelletier, Jeremy Cooperstock, McGill University, Canada

MP-L3.2: HIGH RESOLUTION IMAGE RECONSTRUCTION IN SHAPE FROM FOCUS
Rajiv Sahay, Ambasamudram Rajagopalan, Indian Institute of Technology, Madras, India

MP-L3.3: H2O: REVERSIBLE HEXAGONAL-ORTHOGONAL GRID CONVERSION BY 1-D FILTERING
Laurent Condat, Brigitte Forster-Heinlein, GSF National Research Center for Environment and Health, Germany; Dimitri Van De Ville, Biomedical Imaging Group, EPFL, Switzerland

MP-L3.4: SPARSE GRADIENT IMAGE RECONSTRUCTION DONE FASTER
Ray Maleh, Anna Gilbert, Martin Strauss, University of Michigan, United States

MP-L3.5: SPATIO-SPECTRAL COLOR FILTER ARRAY DESIGN FOR ENHANCED IMAGE FIDELITY
Keigo Hirakawa, Patrick J. Wolfe, Harvard University, United States

MP-L3.6: EFFECTIVE FALSE COLOR SUPPRESSION OF DEMOSAICING USING DIRECTION INVERSION AND BIDIRECTIONAL SIGNAL CORRELATION
Chung-Yen Su, Chi-Ming Lin, Yi-Shien Lin, National Taiwan Normal University, Taiwan

MP-L3.7: COLOR IMAGE SUPERRESOLUTION BASED ON A STOCHASTIC COMBINATIONAL CLASSIFICATION-REGRESSION ALGORITHM
Karl Ni, Truong Nguyen, University of California, San Diego, United States

MP-L3.8: MARKOV RANDOM FIELD MODEL-BASED EDGE-DIRECTED IMAGE INTERPOLATION
Min Li, Truong Nguyen, University of California, San Diego, United States

MP-L4: Image and Video Modeling I

MP-L4.1: RELATIVE POSITION-BASED SPATIAL RELATIONSHIPS USING MATHEMATICAL MORPHOLOGY
R. Gokberk Cinbis, Selim Aksoy, Bilkent University, Turkey

MP-L4.2: A CONVEX PROGRAMMING APPROACH TO ANISOTROPIC SMOOTHING
Joachim Dahl, Søren H. Jensen, Aalborg University, Denmark; Per Christian Hansen, Technical University of Denmark, Denmark

MP-L4.3: MODELING TIME-VARYING ILLUMINATION PATTERNS IN VIDEO
Yilei Xu, Amit Roy-Chowdhury, University of California, Riverside, United States

MP-L4.4: UNSUPERVISED NONLINEAR MANIFOLD LEARNING
Matthieu Brucher, Christian Heinrich, Fabrice Heitz, Jean-Paul Armspach, Université Louis Pasteur, France

MP-L4.5: VIDEO CONTENT REPRESENTATION BY INCREMENTAL NON-NEGATIVE MATRIX FACTORIZATION
Serhat S. Bucak, Bilge Gunsel, Istanbul Technical University, Turkey

MP-L4.6: NOISE AND SIGNAL ACTIVITY MAPS FOR BETTER IMAGING ALGORITHMS
Pavel Kisilev, Doron Shaked, Suk Hwan Lim, Hewlett Packard Laboratories, Israel

MP-L4.7: PERCEPTUAL IMAGE CODING BASED ON A MAXIMUM OF MINIMAL STRUCTURAL SIMILARITY CRITERION
Zhou Wang, Qiang Li, University of Texas at Arlington, United States; Xinli Shang, Microsoft Corporation, United States

MP-L4.8: EFFICIENT FULL-REFERENCE ASSESSMENT OF IMAGE AND VIDEO QUALITY
Patrick Ndjiki-Nya, Mikel Barrado, Thomas Wiegand, Fraunhofer HHI, Germany

MP-L5: Security II

MP-L5.1: SENSITIVITY ANALYSIS ATTACKS AGAINST RANDOMIZED DETECTORS
Maha El Choubassi, Pierre Moulin, University of Illinois at Urbana-Champaign, United States

MP-L5.2: ANALYSIS OF NONLINEAR COLLUSION ATTACKS ON FINGERPRINTING SYSTEMS FOR COMPRESSED MULTIMEDIA
Avinash L. Varna, Shan He, Ashwin Swaminathan, Min Wu, University of Maryland, United States

MP-L5.3: COLLUSION ATTACK-RESILIENT HIERARCHICAL ENCRYPTION OF JPEG 2000 CODESTREAMS WITH SCALABLE ACCESS CONTROL
Shoko Imaizumi, Masaaki Fujiyoshi, Tokyo Metropolitan University, Japan; Yoshito Abe, Industrial Research Institute of Niigata Prefecture, Japan; Hitoshi Kiya, Tokyo Metropolitan University, Japan

MP-L5.4: AN ATTACK AGAINST IMAGE-BASED SELECTIVE BITPLANE ENCRYPTION
Dominik Engel, Andreas Uhl, University of Salzburg, Austria

MP-L5.5: ON A WATERMARKING SCHEME IN THE LOGARITHMIC DOMAIN AND ITS PERCEPTUAL ADVANTAGES
Pedro Comesaña, Fernando Pérez-González, University of Vigo, Spain

MP-L5.6: STEGANALYSIS OF +-1 EMBEDDING USING LOSSLESS IMAGE COMPRESSION
Charles Boncelet, University of Delaware, United States; Lisa Marvel, U. S. Army Research Laboratory, United States

MP-L5.7: STEGANALYZING TEXTURE IMAGES
Chunhua Chen, Yun Q. Shi, New Jersey Institute of Technology, United States; Guorong Xuan, Tongji University, China

MP-L5.8: STEGANOGRAPHY USING SENSOR NOISE AND LINEAR PREDICTION SYNTHESIS FILTER
Xiaoyi Yu, Osaka University, Japan; Xinshan Zhu, Peking University, China; Noboru Babaguchi, Osaka University, Japan

MP-L6: Image Scanning, Display, Printing, Color and Multispectral Processing I

MP-L6.1: COLOR MANAGEMENT OF PRINTERS BY REGRESSION OVER ENCLOSING NEIGHBORHOODS
Erika Chin, University of Virginia, United States; Eric Garcia, Maya Gupta, University of Washington, United States

MP-L6.2: FINDING OPTIMAL INTEGRAL SAMPLING LATTICES FOR A GIVEN FREQUENCY SUPPORT IN MULTIDIMENSIONS
Yue Lu, Minh Do, University of Illinois at Urbana-Champaign, United States

MP-L6.3: DOES WHERE YOU GAZE ON AN IMAGE AFFECT YOUR PERCEPTION OF QUALITY? APPLYING VISUAL ATTENTION TO IMAGE QUALITY METRIC
Alexandre Ninassi, Thomson R&D France, IRCCyN UMR 6597 CNRS, France; Olivier Le Meur, Thomson R&D France, France; Patrick Le Callet, Dominique Barba, IRCCyN UMR 6597 CNRS, France

MP-L6.4: VIDEO QUALITY ASSESSMENT BY INCORPORATING A MOTION PERCEPTION MODEL
Qiang Li, Zhou Wang, University of Texas at Arlington, United States

MP-L6.5: A NEW OBJECTIVE QUALITY METRIC FOR FRAME INTERPOLATION USING IN VIDEO COMPRESSION
Kai-Chieh Yang, Ai-Mei Huang, Truong Nguyen, Clark C. Guest, Pankaj K. Das, University of California, San Diego, United States

MP-L6.6: DEMOSAICING BASED ON WAVELET ANALYSIS OF THE LUMINANCE COMPONENT
Daniele Menon, Giancarlo Calvagno, University of Padova, Italy

MP-L6.7: A CONSTRAINED NON-NEGATIVE MATRIX FACTORIZATION APPROACH TO UNMIX HIGHLY MIXED HYPERSPECTRAL DATA
Lidan Miao, Hairong Qi, University of Tennessee, United States

MP-L6.8: EFFICIENT DEMOSAICING THROUGH RECURSIVE FILTERING

Brice Chaix de Lavarène, Université Joseph Fourier, France; David Alleysson, CNRS, France; Barthélémy Durette, Jeanny Hérault, Université Joseph Fourier, France

MP-P1: Image and Video Storage and Retrieval II

MP-P1.1: REPRESENTATIVE IMAGE THUMBNAILS FOR GOOD BROWSING

Ramin Samadani, Suk Hwan Lim, Dan Tretter, Hewlett Packard Laboratories, United States

MP-P1.2: DISCRIMINATIVE SIGNATURES FOR IMAGE CLASSIFICATION

Ziming Zhang, Syin Chan, Liang-Tien Chia, Nanyang Technological University, Singapore

MP-P1.3: KLDA - AN ITERATIVE APPROACH TO FISHER DISCRIMINANT ANALYSIS

Fangfang Lu, Hongdong Li, Australian National University, Australia

MP-P1.4: A GENERALIZED MULTIPLE INSTANCE LEARNING ALGORITHM FOR ITERATIVE DISTILLATION AND CROSS-GRANULAR PROPAGATION OF VIDEO ANNOTATIONS

Feng Kang, Michigan State University, United States; Milind Naphade, IBM T. J. Watson Research Center, United States

MP-P1.5: CLASSIFICATION BY CHEEGER CONSTANT REGULARIZATION

Hsun-Hsien Chang, José M. F. Moura, Carnegie Mellon University, United States

MP-P1.6: ROBUST MULTI-MODAL GROUP ACTION RECOGNITION IN MEETINGS FROM DISTURBED VIDEOS WITH THE ASYNCHRONOUS HIDDEN MARKOV MODEL

Marc Al-Hames, Claus Lenz, Stephan Reiter, Joachim Schenk, Frank Wallhoff, Gerhard Rigoll, Technische Universität München, Germany

MP-P1.7: BOOSTING OF MAXIMAL FIGURE OF MERIT CLASSIFIERS FOR AUTOMATIC IMAGE ANNOTATION

Filippo Vella, Consiglio Nazionale delle Ricerche, Italy; Chin-Hui Lee, Georgia Institute of Technology, United States; Salvatore Gaglio, Consiglio Nazionale delle Ricerche, Italy

MP-P1.8: SAMPLE SELECTION IN TEXTURED IMAGES

Benoit Dolez, CRIP5-SIP Lab, SAGEM DS, France; Nicole Vincent, CRIP5-SIP Lab, France

MP-P1.9: KEY-PLACES DETECTION AND CLUSTERING IN MOVIES USING LATENT ASPECTS

Maguelonne Héritier, Samuel Foucher, Langis Gagnon, CRIM, Canada

MP-P1.10: FAST METHOD FOR JOINT RETRIEVAL AND IDENTIFICATION OF JPEG CODED IMAGES BASED ON DCT SIGN

Fitri Arnia, Ikue Iizuka, Masaaki Fujiyoshi, Hitoshi Kiya, Tokyo Metropolitan University, Japan

MP-P1.11: ESTIMATING MISSING FEATURES TO IMPROVE MULTIMEDIA RETRIEVAL

Abraham Bagherjeiran, Nicole Love, Chandrika Kamath, Lawrence Livermore National Laboratory, United States

MP-P2: Morphological, Level-Set, and Edge or Color Image/Video Segmentation

MP-P2.1: RADIAL BASIS FUNCTIONS COLLOCATION METHODS FOR MODEL BASED LEVEL-SET SEGMENTATION

Arnaud Gelas, Joël Schaerer, Olivier Bernard, Denis Friboulet, Patrick Clarysse, Isabelle Magnin, Rémy Prost, CREATIS, France

MP-P2.2: MORPHOLOGICAL PROCESSING OF SEVERELY OCCLUDED DIGITAL ELEVATION IMAGES TO EXTRACT AND CONNECT STREAM CHANNELS

Hyun-chong Cho, K. Clint Slatton, University of Florida, United States

MP-P2.3: SEGMENTATION OF IMAGES ON POLAR COORDINATE MESHES

Kenji Hara, Ryo Kurazume, Kohei Inoue, Kiichi Urahama, Kyushu University, Japan

MP-P2.4: DISTANCECUT: INTERACTIVE SEGMENTATION AND MATTING OF IMAGES AND VIDEOS

Xue Bai, Guillermo Sapiro, University of Minnesota, United States

MP-P2.5: MULTISEGMENT DETECTION

Rafael Grompone von Gioi, Jérémie Jakubowicz, ENS Cachan, France; Gregory Randall, Universidad de la República, Uruguay

MP-P2.6: OBJECT-RESPECTING COLOR IMAGE SEGMENTATION

Hongdong Li, Australian National University, Australia; Chunhua Shen, National ICT Australia, Australia

MP-P2.7: CHROMINANCE EDGE PRESERVING GRAYSCALE TRANSFORMATION WITH APPROXIMATE FIRST PRINCIPAL COMPONENT FOR COLOR EDGE DETECTION

Salih Dikbas, Tarik Arici, Yucel Altunbasak, Georgia Institute of Technology, United States

MP-P2.8: NUMBER-DRIVEN PERCEPTUAL SEGMENTATION OF NATURAL COLOR IMAGES FOR EASY DECISION OF OPTIMAL RESULT

Junji Maeda, Akimitsu Kawano, Sato Saga, Yukinori Suzuki, Muroran Institute of Technology, Japan

MP-P2.9: USING DEMPSTER-SHAFER THEORY TO FUSE MULTIPLE INFORMATION SOURCES IN REGION-BASED SEGMENTATION

Tomasz Adamek, Noel E. O'Connor, Dublin City University, Ireland

MP-P2.10: SEGMENTATION OF WHEAT GRAINS IN THERMAL IMAGES BASED ON PULSE COUPLED NEURAL NETWORKS

Mario Chacon, Chihuhahua Institute of Technology, Mexico; Annamalai Manickavasagan, Daniel Flores-Tapia, Gabriel Thomas, Digvir Jayas, University of Manitoba, Canada

MP-P2.11: MODELING VS. SEGMENTING IMAGES USING A PROBABILISTIC APPROACH

Datong Chen, Carnegie Mellon University, United States

MP-P3: Scalable Video Coding

MP-P3.1: R-D OPTIMIZED MULTI-LAYER ENCODER CONTROL FOR SVC
Heiko Schwarz, Thomas Wiegand, Fraunhofer HHI, Germany

MP-P3.2: SUBJECTIVE QUALITY ANALYSIS OF BIT RATE EXCHANGE BETWEEN TEMPORAL AND SNR SCALABILITY IN THE MPEG4 SVC EXTENSION
Mark Barzilay, Jacco Taal, R.(Inald) Lagendijk, Delft University of Technology, Netherlands

MP-P3.3: LAYER-ADAPTIVE MODE DECISION AND MOTION SEARCH FOR SCALABLE VIDEO CODING WITH COMBINED COARSE GRANULAR SCALABILITY (CGS) AND TEMPORAL SCALABILITY
Hung-Chih Lin, Wen-Hsiao Peng, Hsueh-Ming Hang, National Chiao-Tung University, Taiwan; Wen-Jen Ho, Institute for Information Industry, Taiwan

MP-P3.4: EFFICIENT VIDEO STREAM SWITCHING WITH PROGRESSIVE S-FRAMES
Byeong-Doo Choi, Ju-Hun Nam, Jin-Hyung Kim, Sung-Hoon Yun, Sung-Jea Ko, Korea University, Republic of Korea

MP-P3.5: MOTION MODELING WITH GEOMETRY AND QUAD-TREE LEAF MERGING
Reji Mathew, National ICT Australia, Australia; David Taubman, University of New South Wales, Australia

MP-P3.6: IMPROVED MOTION COMPENSATION IN THE ENHANCEMENT LAYER FOR SPATIALLY SCALABLE VIDEO CODING
Rong Zhang, Mary Comer, Purdue University, United States

MP-P3.7: OPTIMAL SELECTION OF ENCODING CONFIGURATION FOR SCALABLE VIDEO CODING
T. Berkin Abanoz, A. Murat Tekalp, Koç University, Turkey

MP-P3.8: LAGRANGE MULTIPLIER SELECTION FOR 3-D WAVELET BASED SCALABLE VIDEO CODING
Fuzheng Yang, Shuai Wan, Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

MP-P3.9: A FULLY SCALABLE MOTION MODEL FOR SCALABLE VIDEO CODING
Meng-Ping Kao, Truong Nguyen, University of California, San Diego, United States

MP-P3.10: SPATIALLY ADAPTIVE WAVELET TRANSFORM FOR VIDEO CODING WITH MULTI-SCALE MOTION COMPENSATION
Marta Mrak, Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

MP-P3.11: WATER LEVEL DETECTION FOR FUNCTIONALLY LAYERED VIDEO CODING
Masahiro Iwahashi, Sakol Udomsiri, Yuji Imai, Nagaoka University of Technology, Japan; Shogo Muramatsu, Niigata University, Japan

MP-P3.12: OBJECT CODING USING A SHAPE ADAPTIVE WAVELET TRANSFORM WITH SCALABLE WDR METHOD
T. S. Bindulal, M. R. Kaimal, University of Kerala, India

MP-P4: Image Coding I

MP-P4.12: LOSSY COMPRESSION OF BILEVEL IMAGES BASED ON MARKOV RANDOM FIELDS

Matthew G. Reyes, University of Michigan, United States; Xiaonan Zhao, Northwestern University, United States; David L. Neuhoff, University of Michigan, United States; Thrasyvoulos N. Pappas, Northwestern University, United States

MP-P5: Biometrics III: Fingerprints, Iris, Palmprints

MP-P5.1: A ROBUST MATCHING METHOD FOR DISTORTED FINGERPRINTS

Xiaolong Zheng, Yangsheng Wang, Xuying Zhao, Institute of Automation, Chinese Academy of Sciences, China

MP-P5.2: THE OPTIMAL ROS-BASED SYMMETRIC PHASE-ONLY FILTER FOR FINGERPRINT VERIFICATION

Xin Shuai, Chao Zhang, Peking University, China; Pengwei Hao, University of London, Queen Mary, United Kingdom

MP-P5.3: A TWO-STAGE FUSION SCHEME USING MULTIPLE FINGERPRINT IMPRESSIONS

Lifeng Sha, Feng Zhao, Xiaoou Tang, The Chinese University of Hong Kong, Hong Kong SAR of China

MP-P5.4: NEW DIRECTIONS IN CONTACT FREE HAND RECOGNITION

Xiaoqian Jiang, Wanhong Xu, Latanya Sweeney, Yiheng Li, Ralph Gross, Daniel Yurovsky, Carnegie Mellon University, United States

MP-P5.5: SINGLE-SEMANTIC MULTI-INSTANCE FUSION OF HANDWRITING BASED BIOMETRIC AUTHENTICATION SYSTEMS

Tobias Scheidat, Claus Vielhauer, Jana Dittmann, Otto-von-Guericke University Magdeburg, Germany

MP-P5.6: WAVELET MAXIMA AND MOMENT INVARIANTS BASED IRIS FEATURE EXTRACTION

Makram Nabti, Ahmed Bouridane, Queen's University Belfast, United Kingdom

MP-P5.7: ROTATION-INDEPENDENT IRIS MATCHING BY MOTION ESTIMATION

Don Monro, Soumyadip Rakshit, University of Bath, United Kingdom

MP-P5.8: LEARNING APPEARANCE PRIMITIVES OF IRIS IMAGES FOR ETHNIC CLASSIFICATION

Xianchao Qiu, Zhenan Sun, Tieniu Tan, Institute of Automation, Chinese Academy of Sciences, China

MP-P5.9: COMBINING MATCHING ALGORITHMS FOR HUMAN IDENTIFICATION USING DENTAL X-RAY RADIOGRAPHS

Omaima Nomir, University of Mansoura, Egypt; Mohamed Abdel-Mottaleb, University of Miami, United States

MP-P5.10: AN IMPROVED 2DLPP METHOD ON GABOR FEATURES FOR PALMPRINT RECOGNITION

Xin Pan, Qiu-Qi Ruan, Yan-Xia Wang, Beijing Jiaotong University, China

MP-P5.11: PALMPRINT VERIFICATION USING COMPLEX WAVELET TRANSFORM

Lei Zhang, Zhenhua Guo, The Hong Kong Polytechnic University, Hong Kong SAR of China; Zhou Wang, University of Texas at Arlington, United States; David Zhang, The Hong Kong Polytechnic University, Hong Kong SAR of China

MP-P6: Biomedical Imaging I

MP-P6.1: RETINA LAYER SEGMENTATION AND SPATIAL ALIGNMENT OF ANTIBODY EXPRESSION LEVELS

Nhat Vu, Pratim Ghosh, B. S. Manjunath, University of California, Santa Barbara, United States

MP-P6.2: RESTORATION OF BIOMEDICAL IMAGES USING LOCALLY ADAPTIVE B-SPLINE SMOOTHING

Xabier Artaechevarria, Arrate Muñoz-Barrutia, Carlos Ortiz-de-Solorzano, University of Navarra, Spain

MP-P6.3: PARAMETRIC DEFORMABLE BLOCK MATCHING FOR ULTRASOUND IMAGING

Adrian Basarab, Walid Aoudi, Hervé Liebgott, Didier Vray, Philippe Delachartre, Creatis, France

MP-P6.4: A 3D SELF-ADJUST REGION GROWING METHOD FOR AXON EXTRACTION

Kai Zhang, Hongkai Xiong, Shanghai Jiao Tong University, China; Xiaobo Zhou, Stephen Wong, Harvard Medical School, Brigham and Women's Hospital, United States

MP-P6.5: WIRELESS CAPSULE ENDOSCOPY IMAGES ENHANCEMENT USING CONTRAST DRIVEN FORWARD AND BACKWARD ANISOTROPIC DIFFUSION

Baopu Li, Max Q.-H. Meng, The Chinese University of Hong Kong, Hong Kong SAR of China

MP-P6.6: ENHANCEMENT OF VISUAL PERCEPTION THROUGH DYNAMIC CUES: AN APPLICATION TO MAMMOGRAMS

Johannes Plett, Marcelo Guarini, Pablo Irarrazaval, Pontificia Universidad Catolica de Chile, Chile

MP-P6.7: AUTOMATIC DETECTION AND DIAGNOSIS OF DIABETIC RETINOPATHY

Katia Estabridis, Rui J. P. de Figueiredo, University of California, Irvine, United States

MP-P6.8: EXTENSION OF MUTUAL SUBSPACE METHOD FOR LOW DIMENSIONAL FEATURE PROJECTION

Dragana Veljkovic, Kay Robbins, University of Texas at San Antonio, United States; Doug Rubino, University of California, San Diego, United States; Nicholas Hatsopoulos, University of Chicago, United States

MP-P6.9: DETERMINATION OF OPTIMAL AXES FOR SKIN LESION ASYMMETRY QUANTIFICATION

Kathy Clawson, Philip Morrow, Bryan Scotney, University of Ulster, United Kingdom; John McKenna, Olivia Dolan, Department of Dermatology, Royal Hospitals Trust, United Kingdom

MP-P6.10: LUNG NODULE DETECTION USING EYE-TRACKING

Michela Antonelli, University of Pisa, Italy; Guang-Zhong Yang, Imperial College London, United Kingdom

MP-P6.11: A NEW CAD SYSTEM FOR EARLY DIAGNOSIS OF DETECTED LUNG NODULES
Ayman El-Baz, University of Louisville, United States; Georgy Gimelfarb, University of Auckland, New Zealand; Robert Falk, Jewish Hospital, United States; Mohamed Abo El-Ghar, University of Mansoura, Egypt

MP-P6.12: POLYP DETECTION IN COLONOSCOPY VIDEO USING ELLIPTICAL SHAPE FEATURE
Sae Hwang, University of Texas at Arlington, United States; JungHwan Oh, University of North Texas, United States; Wallapak Tavanapong, Johnny Wong, Iowa State University, United States; Piet C. de Groen, Mayo Clinic College of Medicine, United States

MP-P7: Motion Detection and Estimation II

MP-P7.1: EARLY TERMINATION ALGORITHMS FOR CORRELATION COEFFICIENT BASED BLOCK MATCHING
Arif Mahmood, Sohaib Khan, Lahore University of Management Sciences, Pakistan

MP-P7.2: FAST MOTION ESTIMATION AND EDGE INFORMATION INTER-MODE DECISION ON H.264 VIDEO CODING
Yu-Nan Pan, Tsung_Han Tsai, Nation Central University, Taiwan

MP-P7.3: TWO STATISTICAL MEASURES OF SIMILARITY FOR OBJECT ASSOCIATION AND TRACKING IN COLOR IMAGE SEQUENCES
Hugh Kennedy, Technical Knockout Systems Pty. Ltd., United States

MP-P7.4: GRADIENT FIELD CORRELATION FOR KEYPOINT CORRESPONDENCE
Zeynep Engin, Melvin Lim, Anil Anthony Bharath, Imperial College London, United Kingdom

MP-P7.5: IMPROVED MOTION CLASSIFICATION TECHNIQUES FOR ADAPTIVE MULTI-PATTERN FAST BLOCK-MATCHING ALGORITHM
Iván González Díaz, Fernando Díaz de María, Universidad Carlos III, Spain

MP-P7.6: EFFICIENT BLOCK MOTION ESTIMATION USING SECTOR BASED APPROACH
Humaira Nisar, Tae-Sun Choi, Gwangju Institute of Science and Technology, Republic of Korea

MP-P7.7: ARCHITECTURE FOR ANALOG VARIABLE BLOCK-SIZE MOTION ESTIMATION
Lauri Koskinen, Helsinki University of Technology, Finland; Joona Marku, Ari Paasio, University of Turku, Finland; Kari Halonen, Helsinki University of Technology, Finland

MP-P7.8: MOTION ESTIMATION USING A JOINT OPTIMISATION OF THE MOTION VECTOR FIELD AND A SUPER-RESOLUTION REFERENCE IMAGE
Christian Debes, Technische Universität Darmstadt, Germany; Thomas Wedi, Panasonic R&D Center Germany, Germany; Christopher Brown, Abdelhak Zoubir, Technische Universität Darmstadt, Germany

MP-P7.9: SPATIO-TEMPORAL REGISTRATION TECHNIQUES FOR RELIGHTABLE 3D VIDEO
Naveed Ahmed, Christian Theobalt, MPI Informatik, Germany; Marcus Magnor, Braunschweig Technical University, Germany; Hans-Peter Seidel, MPI Informatik, Germany

MP-P7.10: FAST AND STABLE VECTOR SPLINE METHOD FOR FLUID APPARENT MOTION ESTIMATION
Till Isambert, Jean-Paul Berroir, Isabelle Herlin, INRIA Rocquencourt - CLIME, France

MP-P7.11: ADAPTIVE MULTISCALE OPTICAL FLOW ESTIMATION
Jian Li, Christopher P Benton, Stavri G Nikolov, Nicholas E Scott-Samuel, University of Bristol, United Kingdom

MP-P7.12: ISOMAP TRACKING WITH PARTICLE FILTERING
Nikhil Rane, Stanley Birchfield, Clemson University, United States

MP-P8: Stereoscopic and 3D Processing II: 3D Modeling & Synthesis

MP-P8.1: ON 3D PARTIAL MATCHING OF MEANINGFUL PARTS
Athanassios Mademlis, Aristotle University of Thessaloniki, Greece; Petros Daras, Dimitrios Tzovaras, Michael Strintzis, Centre for Research and Technology Hellas, Greece

MP-P8.2: 3D CITY MODELING BASED ON HIDDEN MARKOV MODEL
Florent Lafarge, Xavier Descombes, Josiane Zerubia, INRIA, France; Marc Pierrot-Deseilligny, IGN, France

MP-P8.3: SHAPE FROM SHADING FOR HYBRID SURFACES
Abdelrehim Ahmed, Aly Farag, University of Louisville, United States

MP-P8.4: A PROBABILISTIC FRAMEWORK FOR GEOMETRY RECONSTRUCTION USING PRIOR INFORMATION
Wende Zhang, Carnegie Mellon University / General Motors, United States; Tsuhan Chen, Carnegie Mellon University, United States

MP-P8.5: DETECTION STRATEGIES FOR IMAGE CUBE TRAJECTORY ANALYSIS
Ingo Feldmann, Peter Kauff, Peter Eisert, Fraunhofer HHI, Germany

MP-P8.6: 3D BUILDING RECONSTRUCTION WITH PARAMETRIC ROOF SUPERSTRUCTURES
Mathieu Brédif, Didier Boldo, Marc Pierrot-Deseilligny, French Mapping Agency (IGN), France; Henri Maître, GET / Telecom Paris, France

MP-P8.7: STEREOSCOPIC SYSTEM FOR 3-D SEABED MOSAIC RECONSTRUCTION
Alessandro Leone, Giovanni Diraco, Cosimo Distante, IMM-CNR Sezione di Lecce, Italy

MP-P8.8: ON SURFACE TOPOGRAPHY RECONSTRUCTION FROM GRADIENT FIELDS
Toni Kuparinen, Ville Kyrki, Lappeenranta University of Technology, Finland; Jarno Mielikainen, Pekka Toivanen, University of Kuopio, Finland

MP-P8.9: GENETIC ALGORITHMS FOR GIELIS SURFACE RECOVERY FROM 3D DATA SETS
Youssef Bokhabrine, Yohan D. Fougerolle, Sebti Foufou, Frédéric Truchetet, Le2i Lab., UMR CNRS 5158, France

MP-P8.10: SURFACE HARMONICS FOR SHAPE MODELING
Heng Huang, University of Texas at Arlington, United States; Li Shen, University of Massachusetts at Dartmouth, United States

MP-P8.11: VIRTUAL MIRROR: REAL-TIME TRACKING OF SHOES IN AUGMENTED REALITY ENVIRONMENTS

Peter Eisert, Jürgen Rurainsky, Philipp Fechteler, Fraunhofer Institute for Telecommunications - Heinrich Hertz Institute, Germany

MP-P8.12: SURFACE ESTIMATION AND TRACKING USING SEQUENTIAL MCMC METHODS FOR VIDEO BASED RENDERING

Adam Bowen, Andrew Mullins, Roland Wilson, Nasir Rajpoot, University of Warwick, United Kingdom

TA-L1: Distributed Source Coding II: Distributed Image and Video Coding and Their Applications

TA-L1.1: ANALYSIS OF CODING EFFICIENCY OF MOTION-COMPENSATED INTERPOLATION AT THE DECODER IN DISTRIBUTED VIDEO CODING

Marco Tagliasacchi, Laura Frigerio, Stefano Tubaro, Politecnico di Milano, Italy

TA-L1.2: IMAGE AUTHENTICATION BASED ON DISTRIBUTED SOURCE CODING

Yao-Chung Lin, David Varodayan, Bernd Girod, Stanford University, United States

TA-L1.3: CODEC-INDEPENDENT SCALABLE DISTRIBUTED VIDEO CODING

Mourad Ouaret, Frederic Dufaux, Touradj Ebrahimi, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

TA-L1.4: MULTI-VIEW DISTRIBUTED VIDEO CODING WITH LOW-COMPLEXITY INTER-SENSOR COMMUNICATION OVER WIRELESS VIDEO SENSOR NETWORKS

Li-Wei Kang, Chun-Shien Lu, Academia Sinica, Taiwan

TA-L1.5: WYNER-ZIV CODING OF MULTI-VIEW OMNIDIRECTIONAL IMAGES WITH OVERCOMPLETE DECOMPOSITIONS

Ivana Tosic, Pascal Frossard, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

TA-L1.6: VIEW SYNTHESIS FOR ROBUST DISTRIBUTED VIDEO COMPRESSION IN WIRELESS CAMERA NETWORKS

Chuohao Yeo, Jiajun Wang, Kannan Ramchandran, University of California, Berkeley, United States

TA-L1.7: MULTITERMINAL VIDEO CODING

Yang Yang, Texas A&M University, United States; Vladimir Stankovic, Lancaster University, United Kingdom; Wei Zhao, Rensselaer Polytechnic Institute, United States; Zixiang Xiong, Texas A&M University, United States

TA-L1.8: ADAPTIVE HASH-BASED SIDE INFORMATION EXPLOITATION FOR EFFICIENT WYNER-ZIV VIDEO CODING

João Ascenso, ISEL-IT, Portugal; Fernando Pereira, IST-IT, Portugal

TA-L2: Image and Video Segmentation III: Edge or Color Segmentation

TA-L2.1: SKELETONIZATION BY GRADIENT DIFFUSION AND REGULARIZATION
Frank Le Bourgeois, INSA de Lyon, France; Hubert Emptoz, INSA de LYON, France

TA-L2.2: CORNER DETECTION OF CONTOUR IMAGES USING SPECTRAL CLUSTERING
Xi Li, Weiming Hu, Institute of Automation, Chinese Academy of Sciences, China; Zhongfei Zhang, State University of New York, United States

TA-L2.3: CELLULAR AUTOMATA-BASED ALGORITHM AND ITS APPLICATION IN MEDICAL IMAGE PROCESSING
Sartra Wongthanavasu, Vorachai Tangvoraphonkchai, Khon Kaen University, Thailand

TA-L2.4: MULTI-RESOLUTION LOCAL HISTOGRAM ANALYSIS FOR EDGE DETECTION
Amar Aggoun, Magid Khallil, Brunel University, United Kingdom

TA-L2.5: NON-ADDITIVE APPROACH FOR GRADIENT-BASED EDGE DETECTION
Florence Jacquey, Kevin Loquin, Frédéric Comby, Olivier Strauss, LIRMM, France

TA-L2.6: COORDINATE LOGIC TRANSFORMS AND THEIR USE IN THE DETECTION OF EDGES WITHIN BINARY AND GRAYSCALE IMAGES
Ethan Danahy, Karen Panetta, Tufts University, United States; Sos Agaian, University of Texas at San Antonio, United States

TA-L2.7: IMPROVED HARRIS' ALGORITHM FOR CORNER AND EDGE DETECTION
Soo-Chang Pei, Jian-Jiun Ding, National Taiwan University, Taiwan

TA-L2.8: TOPOLOGICAL GRADIENT OPERATORS FOR EDGE DETECTION
Hakan Guray Senel, Anadolu University, Turkey

TA-L3: Stereoscopic and 3D Processing III

TA-L3.1: 3D FACE RECONSTRUCTION FROM STEREO: A MODEL BASED APPROACH
Ying Zheng, Jianglong Chang, Zhigang Zheng, Zengfu Wang, University of Science and Technology of China, China

TA-L3.2: A NOVEL FACIAL FEATURE POINT LOCALIZATION METHOD ON 3D FACES
Peng Guan, Yaoliang Yu, Liming Zhang, Fudan University, China

TA-L3.3: MIRROR-BASED MULTI-VIEW ANALYSIS OF FACIAL MOTIONS
Jürgen Rurainsky, Peter Eisert, Fraunhofer HHI, Germany

TA-L3.4: SELECTIVE STREAMING OF MULTI-VIEW VIDEO FOR HEAD-TRACKING 3D DISPLAYS
Engin Kurutepe, Technische Universität Berlin, Germany; M. Reha Civanlar, DoCoMo USA Labs, United States; A. Murat Tekalp, Koç University, Turkey

TA-L3.5: FAST AND HIGH RESOLUTION 3D FACE SCANNING
Philipp Fechteler, Peter Eisert, Jürgen Rurainsky, Fraunhofer Institute for Telecommunications - Heinrich Hertz Institute, Germany

TA-L3.6: REGION SEGMENTATION AND FEATURE POINT EXTRACTION ON 3D FACES USING A POINT DISTRIBUTION MODEL

Prathap Nair, Andrea Cavallaro, Queen Mary, University of London, United Kingdom

TA-L3.7: GENERATION OF 3D SURFACE MODEL OF COMPLEX OBJECTS BASED ON NON-METRIC CAMERA

Shunyi Zheng, Ruifang Zhai, Zuxun Zhang, Wuhan University, China

TA-L3.8: ACCURATE AND STABLE CAMERA CALIBRATION OF BROADCAST TENNIS VIDEO

Xinguo Yu, Institute for Infocomm Research, Singapore; Nianjuan Jiang, Loong-Fah Cheong, National University of Singapore, Singapore

TA-L4: Image and Video Restoration and Enhancement I

TA-L4.1: ROBUST FOCUSED IMAGE ESTIMATION FROM MULTIPLE IMAGES IN VIDEO SEQUENCES

Junlan Yang, Dan Schonfeld, University of Illinois at Chicago, United States; Magdi Mohamed, Motorola Labs, United States

TA-L4.2: POCS-BASED ITERATIVE RECONSTRUCTION ALGORITHM OF MISSING TEXTURES

Takahiro Ogawa, Miki Haseyama, Hokkaido University, Japan

TA-L4.3: MULTISCALE SPARSE IMAGE REPRESENTATION WITH LEARNED DICTIONARIES

Julien Mairal, Guillermo Sapiro, University of Minnesota, United States; Michael Elad, Technion - Israel Institute of Technology, Israel

TA-L4.4: IMAGE DENOISING BASED ON ADAPTED DICTIONARY COMPUTATION

Noura Azzabou, Laboratoire MAS/ Ecole Centrale - DxOLabs, France; Nikos Paragios, Laboratoire MAS/ Ecole Centrale, France; Frédéric Guichard, DxOLabs, France

TA-L4.5: OPTIMAL DENOISING IN REDUNDANT BASES

Martin Raphan, Eero Simoncelli, New York University, United States

TA-L4.6: AN EFFICIENT METHOD FOR COMPRESSED SENSING

Seung-Jean Kim, Kwangmoo Koh, Michael Lustig, Stephen Boyd, Stanford University, United States

TA-L4.7: IMAGE DENOISING WITH NONPARAMETRIC HIDDEN MARKOV TREES

Jyri Kivinen, ICSI, University of California, Berkeley, United States; Erik Sudderth, Michael Jordan, University of California, Berkeley, United States

TA-L4.8: BLIND IMAGE SEPARATION USING SPARSE REPRESENTATION

Wided Souidène, Abdeldjalil Aïssa-El-Bey, Karim Abed-Meraim, ENST, France; Azeddine Beghdadi, Université Paris 13, France

TA-L5: Biomedical Imaging II: MRI and Segmentation

TA-L5.1: FB ANALYSIS OF PMRI AND ITS APPLICATION TO HINF OPTIMAL SENSE RECONSTRUCTION

Zhaolin Chen, Jingxin Zhang, Shenpeng Li, Monash University, Australia; Li Chai, Hangzhou Dianzi University, China

TA-L5.2: FIBER TRACKING ON HARDI DATA USING ROBUST ODF FIELDS

Haz-Edine Assemlal, ENSICAEN, France; David Tschumperlé, CNRS, France; Luc Brun, ENSICAEN, France

TA-L5.3: ROBUST SPATIAL PHASE UNWRAPPING FOR ON-LINE MR-TEMPERATURE MONITORING

Baudouin Denis de Senneville, Laboratory for Molecular and Functional Imaging, France; Gregory Maclair, LaBRI, France; Mario Ries, Laboratory for Molecular and Functional Imaging, France; Pascal Desbarats, LaBRI, France; Bruno Quesson, Chrit Moonen, Laboratory for Molecular and Functional Imaging, France

TA-L5.4: PCA-BASED IMAGE REGISTRATION : APPLICATION TO ON-LINE MR TEMPERATURE MONITORING OF MOVING TISSUES

Gregory Maclair, LaBRI, France; Baudouin Denis de Senneville, Mario Ries, Bruno Quesson, Laboratory for Molecular and Functional Imaging, France; Pascal Desbarats, Jenny Benois-Pineau, LaBRI, France; Chrit T. W. Moonen, Laboratory for Molecular and Functional Imaging, France

TA-L5.5: JOINT ESTIMATION FOR NONLINEAR DYNAMIC SYSTEM FROM FMRI TIME SERIES

Hu Zhenghui, Zhang Heye, Wang Linwei, Hong Kong University of Science and Technology, Hong Kong SAR of China; Song Xiaolan, Zhejiang University, China; Shi Pengcheng, Hong Kong University of Science and Technology, Hong Kong SAR of China

TA-L5.6: PARALLEL MAGNETIC RESONANCE IMAGING USING NEURAL NETWORKS

Neelam Sinha, Manojkumar Saranathan, Ramakrishnan Kalpathi R, Indian Institute of Science, India; Suresh Sundaram, Nanyang Technological University, Singapore

TA-L5.7: SUPERRESOLUTION PARALLEL MRI

Ricardo Otazo, Ramiro Jordan, University of New Mexico, United States; Fa-Hsuan Lin, Massachusetts General Hospital, United States; Stefan Posse, University of New Mexico, United States

TA-L5.8: A RBF-BASED MULTIPHASE LEVEL SET METHOD FOR SEGMENTATION IN ECHOCARDIOGRAPHY USING THE STATISTICS OF THE RADIOFREQUENCY SIGNAL

Olivier Bernard, Basma Touil, Arnaud Gelas, Rémy Prost, Denis Friboulet, CREATIS, France

TA-L6: Image Coding II

TA-L6.1: SPACE-FREQUENCY QUANTIZATION USING DIRECTIONLETS

Vladan Velisavljevic, Deutsche Telekom Laboratories, Germany; Baltasar Beferull-Lozano, University of Valencia, Spain; Martin Vetterli, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

TA-L6.2: IMAGE CODING USING 2-D ANISOTROPIC DUAL-TREE DISCRETE WAVELET TRANSFORM

Jingyu Yang, Tsinghua University, China; Jizheng Xu, Feng Wu, Microsoft Research Asia, China; Qionghai Dai, Tsinghua University, China; Yao Wang, Polytechnic University, United States

TA-L6.3: GRAPH-CUT RATE DISTORTION ALGORITHM FOR CONTOURLET-BASED IMAGE COMPRESSION

Maria Trocan, Beatrice Pesquet-Popescu, GET / Telecom Paris, France; James E. Fowler, Mississippi State University, United States

TA-L6.4: INCORPORATING PRIMAL SKETCH BASED LEARNING INTO LOW BIT-RATE IMAGE COMPRESSION

Yang Li, Shanghai Jiao Tong University, China; Xiaoyan Sun, Microsoft Research Asia, China; Hongkai Xiong, Shanghai Jiao Tong University, China; Feng Wu, Microsoft Research Asia, China

TA-L6.5: PEAK TRANSFORM - A NONLINEAR TRANSFORM FOR EFFICIENT IMAGE REPRESENTATION AND CODING

Zhihai He, University of Missouri-Columbia, United States

TA-L6.6: JOINT OPTIMIZATION OF RUN-LENGTH CODING, HUFFMAN CODING AND QUANTIZATION TABLE WITH COMPLETE BASELINE JPEG COMPATIBILITY

En-hui Yang, University of Waterloo, Canada; Longji Wang, Research In Motion, Canada

TA-L6.7: LIFTING-BASED DIRECTIONAL DCT-LIKE TRANSFORM FOR IMAGE CODING

Hao Xu, University of Science and Technology of China, China; Jizheng Xu, Feng Wu, Microsoft Research Asia, China

TA-L6.8: WEIGHTED ADAPTIVE LIFTING-BASED WAVELET TRANSFORM

Yu Liu, King Ngi Ngan, The Chinese University of Hong Kong, Hong Kong SAR of China

TA-P1: Video Surveillance I / Document Image Processing & Analysis

TA-P1.1: A MULTI-CAMERA SURVEILLANCE SYSTEM THAT ESTIMATES QUALITY-OF-VIEW MEASUREMENT

Changsong Shen, Chris Zhang, Sidney Fels, University of British Columbia, Canada

TA-P1.2: SEMI-SUPERVISED LEARNING OF SWITCHED DYNAMICAL MODELS FOR CLASSIFICATION OF HUMAN ACTIVITIES IN SURVEILLANCE APPLICATIONS

Jacinto Nascimento, Instituto de Sistemas e Robótica, Portugal; Mário Figueiredo, Jorge Marques, Instituto Superior Técnico, Portugal

TA-P1.3: ROBUST AUTO-CALIBRATION USING FUNDAMENTAL MATRICES INDUCED BY PEDESTRIANS

Imran N. Junejo, Nazim Ashraf, Yuping Shen, Hassan Foroosh, University of Central Florida, United States

TA-P1.4: USING CALIBRATED CAMERA FOR EUCLIDEAN PATH MODELING

Imran Junejo, Hassan Foroosh, University of Central Florida, United States

TA-P1.5: GROUP ACTIVITY RECOGNITION BASED ON ARMA SHAPE SEQUENCE MODELING
Ying Wang, Kaiqi Huang, Tieniu Tan, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

TA-P1.6: UNSUPERVISED FUZZY CLUSTERING FOR TRAJECTORY ANALYSIS
Nadeem Anjum, Andrea Cavallaro, Queen Mary, University of London, United Kingdom

TA-P1.7: COLLABORATIVE MEAN SHIFT TRACKING BASED ON MULTI-CUE INTEGRATION AND AUXILIARY OBJECTS
Hong Liu, Lin Zhang, Ze Yu, Hongbin Zha, Ying Shi, Peking University, China

TA-P1.8: A COMPARISON OF DIFFERENT APPROACHES TO NONLINEAR SHIFT ESTIMATION FOR OBJECT TRACKING
Majid Asadi, Carlo S. Regazzoni, University of Genoa, Italy

TA-P1.9: TRACKING PERSONS USING PARTICLE FILTER FUSING VISUAL AND WI-FI LOCALIZATIONS FOR WIDELY DISTRIBUTED CAMERA
Takashi Miyaki, Toshihiko Yamasaki, Kiyoharu Aizawa, University of Tokyo, Japan

TA-P1.10: REAL-TIME PEDESTRIAN DETECTION USING EIGENFLOW
Dhiraj Goel, Tsuhan Chen, Carnegie Mellon University, United States

TA-P1.11: SHOW-THROUGH CANCELLATION IN SCANNED IMAGES USING BLIND SOURCE SEPARATION TECHNIQUES
Boaz Ophir, David Malah, Technion - Israel Institute of Technology, Israel

TA-P1.12: A DOCUMENT PAGE CLASSIFICATION ALGORITHM IN COPY PIPELINE
Xiaogang Dong, Purdue University, United States; Peter Majewicz, Gordon McNutt, Hewlett Packard Company, United States; Charles Bouman, Jan Allebach, Ilya Pollak, Purdue University, United States

TA-P2: Security III: Watermarking

TA-P2.1: A NOVEL REVERSIBLE WATERMARKING BASED ON AN INTEGER TRANSFORM
Shaowei Weng, Yao Zhao, Beijing Jiaotong University, China; Jeng-Shyang Pan, Kaohsiung University of Applied Sciences, Taiwan; Rongrong Ni, Beijing Jiaotong University, China

TA-P2.2: INFINITY-NORM ROTATION FOR REVERSIBLE DATA HIDING
Lei Yang, Peking University, China; Pengwei Hao, Queen Mary, University of London, United Kingdom

TA-P2.3: IMPROVED CAPACITY REVERSIBLE WATERMARKING
Dinu Coltuc, Valahia University Targoviste, Romania

TA-P2.4: LOSSLESS DATA HIDING FOR MEDICAL IMAGES WITH PATIENT INFORMATION
Sang-Kwang Lee, Seong-Jae Lim, Young-Ho Suh, ETRI, Republic of Korea; Yo-Sung Ho, Gwangju Institute of Science and Technology, Republic of Korea

TA-P2.5: A LOCATION-MAP FREE REVERSIBLE DATA HIDING METHOD USING BLOCK-BASED SINGLE PARAMETER
Masaaki Fujiyoshi, Tokyo Metropolitan University, Japan; Shuji Sato, Tsukuba University, Japan; Hong lin Jin, Hitoshi Kiya, Tokyo Metropolitan University, Japan

TA-P2.6: UNSEEN VISIBLE WATERMARKING
Shang-Chih Chuang, Chun-Hsiang Huang, Ja-Ling Wu, National Taiwan University, Taiwan

TA-P2.7: A COMPOSITE APPROACH FOR BLIND GRAYSCALE LOGO WATERMARKING
Elliot First, Ripon College, United States; Xiaojun Qi, Utah State University, United States

TA-P2.8: OPTIMAL RATE ALLOCATION FOR LOGO WATERMARKING
Yuanwei Lao, Yuan F. Zheng, The Ohio State University, United States

TA-P2.9: THE COLLABORATION OF NOISE REDUCTION AND HUMAN VISION SYSTEM MODELS FOR A VISIBLE WATERMARKING ALGORITHM
Min-Jen Tsai, Chih-Wen Lin, National Chiao-Tung University, Taiwan

TA-P2.10: IMPROVING EMBEDDING PAYLOAD IN BINARY IMAGES WITH "SUPER-PIXELS"
Hongmei Gou, Min Wu, University of Maryland, United States

TA-P2.11: JOINT BI-WATERMARKING AND HALFTONING TECHNIQUE CAPABILITY FOR BOTH TAMPERED AREAS LOCALIZATION AND RECOVERY OF STILL IMAGE
Soo-Chang Pei, Yi-Chong Zeng, National Taiwan University, Taiwan

TA-P2.12: PERFORMANCE ANALYSIS OF TEXT HALFTONE MODULATION
Paulo Vinicius Koerich Borges, Joceli Mayer, Federal University of Santa Catarina, Brazil; Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

TA-P3: Image and Video Modeling II

TA-P3.1: VISUAL CORRELATES OF FIXATION SELECTION: A LOOK AT THE SPATIAL FREQUENCY DOMAIN
Neil D. B. Bruce, Daniel P. Loach, John K. Tsotsos, York University, Canada

TA-P3.2: DYNAMIC AUDIO-VISUAL MAPPING USING FUSED HIDDEN MARKOV MODEL INVERSION METHOD
Le Xin, Jianhua Tao, Tieniu Tan, Chinese Academy of Sciences, China

TA-P3.3: APPROXIMATION OF CONDITIONAL DENSITY OF MARKOV RANDOM FIELD AND ITS APPLICATION TO TEXTURE SYNTHESIS
Arnab Sinha, Sumana Gupta, Indian Institute of Technology, Kanpur, India

TA-P3.4: BLIND AUDIOVISUAL SOURCE SEPARATION USING SPARSE REPRESENTATIONS
Anna Llagostera Casanovas, Gianluca Monaci, Pierre Vandergheynst, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

TA-P3.5: NON-STATIONARITY DETECTION IN NATURAL IMAGES
Raghu Raj, Alan Bovik, Wilson Geiser, University of Texas at Austin, United States

TA-P3.6: ADDITIVE LOGISTIC REGRESSION APPLIED TO RETINA MODELLING
Sérgio Martins, Leonel Sousa, João Martins, IST/INESC-ID, Portugal

TA-P3.7: CROSS-LAYER OPTIMIZATION FOR SCALABLE VIDEO CODING AND TRANSMISSION OVER BROADBAND WIRELESS NETWORKS
Jincheol Park, Hyungkeuk Lee, Sanghoon Lee, Yonsei University, Republic of Korea

TA-P3.8: GRACEFUL QUALITY DEGRADATION FOR VIDEO DECODING SYSTEMS THROUGH PRIORITY SCHEDULING AND PROCESSOR POWER ADAPTATION
Brian Foo, Mihaela van der Schaar, University of California, Los Angeles, United States

TA-P3.9: MULTIFOCUS IMAGE FUSION BY ESTABLISHING FOCAL CONNECTIVITY
Harishwaran Hariharan, Andreas Koschan, Mongi Abidi, UT/ IRIS lab, United States

TA-P3.10: LIPREADING BY LOCALITY DISCRIMINANT GRAPH
Yun Fu, Xi Zhou, Ming Liu, Mark Hasegawa-Johnson, Thomas S. Huang, University of Illinois at Urbana-Champaign, United States

TA-P3.11: ACCELERATION AND IMPLEMENTATION OF JPEG2000 ENCODER ON TI DSP PLATFORM
Chien-Chih Liu, Hsueh-Ming Hang, National Chiao-Tung University, Taiwan

TA-P3.12: BIOLOGICALLY INSPIRED REGION OF INTEREST SELECTION FOR LOW BIT-RATE VIDEO CODING
Nicolas Tsapatsoulis, Constantinos Pattichis, University of Cyprus, Cyprus; Konstantinos Rapantzikos, National Technical University of Athens, Greece

TA-P4: Video Object Segmentation and Tracking I

TA-P4.1: OBJECT EXTRACTION COMBINING IMAGE PARTITION WITH MOTION DETECTION
Wenming Yang, Harbin Institute of Technology, China; Lu Wang, Tsinghua University, China; Naitong Zhang, Harbin Institute of Technology, China

TA-P4.2: FAST DETECTION OF INDEPENDENT MOTION IN CROWDS GUIDED BY SUPERVISED LEARNING
Yuan Li, Haizhou Ai, Tsinghua University, China

TA-P4.3: TOTAL OCCLUSION CORRECTION USING INVARIANT WAVELET FEATURES
Mohammed Ghazal, Aishy Amer, Concordia University, Canada

TA-P4.4: TOPOLOGICAL-STABILIZATION BASED THRESHOLD QUANTIZATION FOR ROBUST CHANGE DETECTION
Chang Su, Aishy Amer, Concordia University, Canada

TA-P4.5: ROBUST OBJECT TRACKING AGAINST TEMPLATE DRIFT
Jiyan Pan, Bo Hu, Fudan University, China

TA-P4.6: VIDEO OBJECT TRACKING BASED ON A CHAMFER DISTANCE TRANSFORM
Zezhi Chen, Zsolt L Husz, Iain Wallace, Andrew M Wallace, Heriot-Watt University, United Kingdom

TA-P4.7: MINING AUXILIARY OBJECTS FOR TRACKING BY MULTIBODY GROUPING

Ming Yang, Ying Wu, Northwestern University, United States; Shihong Lao, Omron Corporation, Japan

TA-P4.8: VIDEO SEGMENTATION AND SEMANTICS EXTRACTION FROM THE FUSION OF MOTION AND COLOR INFORMATION

Alexia Briassouli, Vasileios Mezaris, Ioannis Kompatsiaris, Informatics and Telematics Institute, Greece

TA-P4.9: MEAN-SHIFT BLOB TRACKING WITH ADAPTIVE FEATURE SELECTION AND SCALE ADAPTATION

Dawei Liang, Harbin Institute of Technology, China; Qingming Huang, Shuqiang Jiang, Chinese Academy of Sciences, China; Hongxun Yao, Harbin Institute of Technology, China; Wen Gao, Peking University, China

TA-P4.10: A NOVEL VIDEO OBJECT TRACKING APPROACH BASED ON KERNEL DENSITY ESTIMATION AND MARKOV RANDOM FIELD

Zhi Liu, Liquan Shen, Zhongmin Han, Zhaoyang Zhang, Shanghai University, China

TA-P4.11: AUTOMATIC VIDEO OBJECT SEGMENTATION USING GRAPH CUT

Ying Mu, BeiHang university, China; Hong Zhang, BeiHang University, China; Helong Wang, Luoyang Electro-optical Equipment Research Institute, China; Wei Zuo, BeiHang university, China

TA-P4.12: A NEW STEREO CORRESPONDENCE METHOD FOR SNAKE-BASED OBJECT SEGMENTATION

Ashraf Alattar, Jong Whan Jang, PaiChai University, Republic of Korea

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TA-P5.1: COMPLEXITY SCALABLE HYBRID END-TO-END DISTORTION ESTIMATION FOR CONVERSATIONAL VIDEO STREAMING

Hua Yang, Corporate Research, Thomson Inc., United States; Xiaohui Wei, University of Texas at Arlington, United States; Jill Boyce, Corporate Research, Thomson Inc., United States

TA-P5.2: MULTIPLE DESCRIPTION VIDEO CODING WITH 3D-SPIHT EMPLOYING A NEW TREE STRUCTURE

Moyuresh Biswas, Michael Frater, John Arnold, University of New South Wales, Australia

TA-P5.3: AN ES BASED EFFECIENT MOTION ESTIMATION TECHNIQUE FOR 3D INTEGRAL VIDEO COMPRESSION

Steven Adedoyin, Anil Fernando, University of Surrey, United Kingdom; Amar Aggoun, Brunel University, United Kingdom; Rajitha Weerakkody, University of Surrey, United Kingdom

TA-P5.4: TEXTURE SYNTHESIS METHOD FOR GENERIC VIDEO SEQUENCES

Patrick Ndjiki-Nya, Christoph Stüber, Thomas Wiegand, Fraunhofer HHI, Germany

TA-P5.5: OPTIMISED COMPRESSION STRATEGY IN WAVELET-BASED VIDEO CODING USING IMPROVED CONTEXT MODELS

Toni Zgaljic, Marta Mrak, Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

TA-P5.6: IMPROVED FEEDBACK COMPENSATION MECHANISMS FOR MULTIPLE VIDEO OBJECT ENCODING RATE CONTROL
Paulo Nunes, Instituto de Telecomunicações, Portugal; Fernando Pereira, Instituto Superior Técnico – Instituto de Telecomunicações, Portugal

TA-P5.7: INTER FRAME CODING WITH TEMPLATE MATCHING AVERAGING
Yoshinori Suzuki, Choong Seng Boon, NTT DoCoMo, Inc., Japan; Thiow Keng Tan, M-Sphere Consulting Pte. Ltd., Singapore

TA-P5.8: HYBRID VARIABLE LENGTH CODING IN VIDEO COMPRESSION USING VARIABLE BREAKPOINT
Dihong Tian, Pi Sheng Chang, Wen Chen, Cisco Systems, Inc., United States

TA-P5.9: A FAST INTER FRAME PREDICTION ALGORITHM FOR MULTI-VIEW VIDEO CODING
Xiaoming Li, Debin Zhao, Harbin Institute of Technology, China; Xiangyang Ji, Chinese Academy of Sciences, China; Qiang Wang, Harbin Institute of Technology, China; Wen Gao, Chinese Academy of Sciences, China

TA-P5.10: ENLARGED BLOCK SIZES AND MOTION SEARCH RANGES FOR HIGH DEFINITION VIDEO CODING
Yunyang Dai, Qi Zhang, Siwei Ma, C.-C. Jay Kuo, University of Southern California, United States

TA-P5.11: PHASE PCA FOR DYNAMIC TEXTURE VIDEO COMPRESSION
Bernard Ghanem, Narendra Ahuja, University of Illinois at Urbana-Champaign, United States

TA-P6: Image Scanning, Display, Printing, Color and Multispectral Processing II

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Keigo Hirakawa, Patrick Wolfe, Harvard University, United States

TA-P6.2: PERCEPTUAL QUALITY EVALUATION ON PERIODIC FRAME-DROPPING VIDEO
Zhongkang Lu, Institute for Infocomm Research, Singapore; Weisi Lin, Nayang Technological University, Singapore; Choong Seng Boon, Sadaatsu Kato, NTT DoCoMo, Inc., Japan; Eeping Ong, Susu Yao, Institute for Infocomm Research, Singapore

TA-P6.3: IMAGE QUALITY MEASURE USING CURVATURE SIMILARITY
Susu Yao, W. Lin, Z. K. Lu, E. P. Ong, M. H. Loke, S. Q. Wu, Institute for Infocomm Research, Singapore

TA-P6.4: IMPACT OF THE RESOLUTION ON THE DIFFERENCES OF PERCEPTUAL VIDEO QUALITY BETWEEN CRT AND LCD
Sylvain Tourancheau, Patrick Le Callet, Dominique Barba, IRCCyN - IVC, France

TA-P6.5: A NO-REFERENCE OBJECTIVE IMAGE SHARPNESS METRIC BASED ON JUST-NOTICEABLE BLUR AND PROBABILITY SUMMATION
Rony Ferzli, Lina Karam, Arizona State University, United States

TA-P6.6: A MUTUAL INFORMATION BASED AUTOMATIC REGISTRATION AND ANALYSIS ALGORITHM FOR DEFECT IDENTIFICATION IN PRINTED DOCUMENTS
Kartheek Chandu, Eli Saber, Rochester Institute of Technology, United States; Wencheng Wu, Xerox Corporation, United States

TA-P6.7: CHARACTERIZATION OF GHOSTING DEFECTS IN ELECTROPHOTOGRAPHIC PRINTERS
Ahmed Eid, Brian Cooper, Mohamed Ahmed, Lexmark International Inc., United States

TA-P6.8: A VQ-BASED DEMOSAICING BY SELF-SIMILARITY
Yoshikuni Nomura, Sony Corporation, Japan; Shree Nayar, Columbia University, United States

TA-P6.9: GRADIENT DOMAIN TONE MAPPING OF HIGH DYNAMIC RANGE VIDEOS
Chul Lee, Chang-Su Kim, Korea University, Republic of Korea

TA-P6.10: HUE-SHIFT MODELING AND CORRECTION METHOD FOR HIGH-LUMINANCE DISPLAY
Tae-Hyoung Lee, Oh-Seol Kwon, Kee-Hyon Park, Yeong-Ho Ha, Kyungpook National University, Republic of Korea

TA-P6.11: QUALITY-AWARE VIDEO
Basavaraj Hiremath, Qiang Li, Zhou Wang, University of Texas at Arlington, United States

TA-P6.12: IMAGE QUALITY ENHANCEMENT FOR LOW BACKLIGHT TFT–LCD DISPLAYS
Pei-Shan Tsai, Chia-Kai Liang, Homer Chen, National Taiwan University, Taiwan

TA-P7: Image Color, Quality, and Display

TA-P7.1: SNR-ADAPTIVE LINEAR FUSION OF HYPERSPECTRAL IMAGES FOR COLOR DISPLAY
Nathaniel Jacobson, Maya Gupta, University of Washington, United States

TA-P7.2: ROBUST TARGET DETECTION BY SPATIAL/SPECTRAL RESTORATION BASED ON TENSOR MODELLING
Nadine Renard, Salah Bourennane, Institut Fresnel/UMR 6133-CNRS, France; Jacques Blanc-Talon, DGA/D4S/MRIS, France

TA-P7.3: RECOVERING INTRINSIC IMAGES USING AN ILLUMINATION INVARIANT IMAGE
Michela Farenzena, Andrea Fusiello, Universita di Verona, Italy

TA-P7.4: REGISTRATION OF GEOMETRIC DEFORMATIONS IN THE PRESENCE OF VARYING ILLUMINATION
Roy Frenkel, Joseph Francos, Ben Gurion University, Israel

TA-P7.5: APPLYING COLOR NAMES TO IMAGE DESCRIPTION
Joost van de Weijer, Cordelia Schmid, GRAVIR-INRIA, France

TA-P7.6: IMAGE-BASED COLOR SCHEMES
Bryan Morse, Daniel Thornton, Qing Xia, John Uibel, Brigham Young University, United States

TA-P7.7: COLOR CONSTANCY USING IMAGE REGIONS
Arjan Gijsenij, Theo Gevers, Universiteit van Amsterdam, Netherlands

TA-P7.8: BAYESIAN RESTORATION OF COLOR IMAGES USING A NON-HOMOGENOUS CROSS-CHANNEL PRIOR
Manu Parmar, Stanley J. Reeves, Thomas S. Denney, Jr., Auburn University, United States

TA-P7.9: ITERATIVE FEATURE SELECTION FOR COLOR TEXTURE CLASSIFICATION
Alice Porebski, Nicolas Vandenbroucke, EIPC / Université de Lille, France; Ludovic Macaire, Université de Lille, France

TA-P7.10: MOTION DETECTION USING A MODEL OF VISUAL ATTENTION
Shijie Zhang, Fred Stentiford, University College London, Adastral Park Campus, United Kingdom

TA-P7.11: SPATIAL FEATURES BASED NO REFERENCE IMAGE QUALITY ASSESSMENT FOR JPEG2000
Z. M. Parvez Sazzad, Yoshikazu Kawayoke, Yuukou Horita, University of Toyama, Japan

TA-P7.12: DISPLAY HDR IMAGE USING A GAIN MAP
Jian Guan, Guoping Qiu, University of Nottingham, United Kingdom

TA-P8: Image and Video Restoration and Enhancement II

TA-P8.1: IMAGE ANALYSIS FOR VALIDATION OF SIMULATIONS OF A FLUID MIX PROBLEM
Chandrika Kamath, Paul Miller, Lawrence Livermore National Laboratory, United States

TA-P8.2: AERIAL IMAGE ENHANCEMENT BASED ON ESTIMATION OF ATMOSPHERIC EFFECTS
Yuzhong Shen, Srinivas Jakkula, Old Dominion University, United States

TA-P8.3: IMAGE RECOVERY FROM BROKEN IMAGE STREAMS
Xiaoyu Zhao, Chi Xu, Zheru Chi, The Hong Kong Polytechnic University, Hong Kong SAR of China; Hong Yan, City University of Hong Kong, Hong Kong SAR of China; David Dagan Feng, Gang Chen, The Hong Kong Polytechnic University, Hong Kong SAR of China

TA-P8.4: MULTI-SCALE STATISTICAL DETECTION AND BALLISTIC IMAGING THROUGH TURBID MEDIA
Sina Farsiu, Duke University, United States; Peyman Milanfar, University of California, Santa Cruz, United States

TA-P8.5: AUTOMATIC PARAMETRISATION FOR AN IMAGE COMPLETION METHOD BASED ON MARKOV RANDOM FIELDS
Tho Ho, University of Adelaide, Australia; Roland Goecke, National ICT Australia, Australia

TA-P8.6: RECONSTRUCTION OF UNDERWATER IMAGE BY BISPECTRUM
Zhiying Wen, University of New South Wales at Australian Defence Force Academy, Australia; Hongdong Li, Australia National University, Australia; Donald Fraser, Andrew Lambert, University of New South Wales at Australian Defence Force Academy, Australia

TA-P8.7: LOCALLY ADAPTIVE WAVELET-BASED IMAGE DENOISING USING THE GRAM-CHARLIER PRIOR FUNCTION

S. M. Mahbubur Rahman, M. Omair Ahmad, M. N. S. Swamy, Concordia University, Canada

TA-P8.8: SUPER-RESOLVED FACIAL TEXTURE UNDER CHANGING POSE AND ILLUMINATION

Jiangang Yu, Bir Bhanu, Yilei Xu, Amit K. Roy-Chowdhury, University of California, Riverside, United States

TA-P8.9: LOCALLY-ADAPTIVE IMAGE CONTRAST ENHANCEMENT WITHOUT NOISE AND RINGING ARTIFACTS

Sascha Cvetkovic, Bosch Security Systems / University of Technology Eindhoven, Netherlands; Johan Schirris, Bosch Security Systems, Netherlands; Peter H.N. de With, University of Technology Eindhoven/LogicaCMG, Netherlands

TA-P8.10: BLOCK-BASED GRADIENT DOMAIN HIGH DYNAMIC RANGE COMPRESSION DESIGN FOR REAL-TIME APPLICATIONS

Tsun Hsien Wang, Wei Ming Ke, Ding Chuang Zwao, National Tsing Hua University, Taiwan; Fang Chu Chen, Industrial Technology Research Institute, Taiwan; Ching Te Chiu, National Tsing Hua University, Taiwan

TA-P8.11: FAST BLOTCH DETECTION ALGORITHM FOR DEGRADED FILM SEQUENCES BASED ON MRF MODELS

Sang-Churl Nam, Masahide Abe, Masayuki Kawamata, Tohoku University, Japan

TP-L1: Challenges in Restoration for Media Production

TP-L1.1: TEN YEARS OF DIGITAL VISUAL RESTORATION SYSTEMS

Anil Kokaram, Trinity College Dublin, Ireland

TP-L1.2: DSP RESTORATION TECHNIQUES FOR AUDIO

James Moorer, Adobe Systems, Incorporated, United States

TP-L1.3: AUTOMATIC QUALITY ANALYSIS FOR FILM AND VIDEO RESTORATION

Peter Schallauer, Werner Bailer, Roland Mörzinger, Hermann Fürntratt, Georg Thallinger, Joanneum Research, Austria

TP-L1.4: RESTORATION OF VARIABLE AREA SOUNDTRACKS

Emmanuel Brun, Abdelaali Hassaïne, Ecole des Mines, France; Bernard Besserer, Universite de La Rochelle, France; Etienne Decenciere, Ecole des Mines, France

TP-L1.5: UNSCENTED KALMAN FILTER FOR IMAGE ESTIMATION IN FILM-GRAIN NOISE

Gorthi Subrahmanyam, Ambasamudram Rajagopalan, R. Aravind, Indian Institute of Technology, Madras, India

TP-L1.6: DETECTION AND RECOVERY OF FILM DIRT FOR ARCHIVE RESTORATION APPLICATIONS

Jinchang Ren, University of Bradford, United Kingdom; Theodore Vlachos, University of Surrey, United Kingdom

TP-L1.7: DUST DETECTION BY COLOUR ANALYSIS IN AN OPTICAL METHOD OF PHONOGRAPHIC DISCS DIGITISATION.
Louis Laborelli, Jean-Hugues Chenot, INA, France

TP-L1.8: SOME TECHNIQUES FOR WOW EFFECT REDUCTION
Andrzej Czyzewski, Przemyslaw Maziewski, Gdansk University of Technology, Poland

TP-L2: Image and Video Filtering and Multiresolution Processing

TP-L2.1: DESIGN OF MULTI-STEERABLE FILTERS AND THEIR APPLICATION FOR THE DETECTION OF CORNERS AND JUNCTIONS
Matthias Mühlich, Thorsten Dahmen, Til Aach, RWTH Aachen University, Germany

TP-L2.2: FAST COMPUTATION OF INVERSE KRAWTCHOUK MOMENT TRANSFORM USING CLENSHAW'S RECURRENCE FORMULA
Ananth Raj. P., Osmania University, India; Venkataramana A, Government Polytechnic College, India

TP-L2.3: EFFECTIVE COMPONENT TREE COMPUTATION WITH APPLICATION TO PATTERN RECOGNITION IN ASTRONOMICAL IMAGING
Christophe Berger, Thierry Géraud, Roland Levillain, Nicolas Widynski, EPITA Research and Development Laboratory (LRDE), France; Anthony Baillard, Emmanuel Bertin, Institut d'Astrophysique de Paris, France

TP-L2.4: TENSOR-BASED FILTER DESIGN USING KERNEL RIDGE REGRESSION
Christian Bauckhage, Deutsche Telekom Laboratories, Germany

TP-L2.5: HIERARCHICAL TENSOR APPROXIMATION OF MULTIDIMENSIONAL IMAGES
Qing Wu, Tian Xia, Yizhou Yu, University of Illinois at Urbana-Champaign, United States

TP-L2.6: INCREMENTAL REFINEMENT OF COMPUTATION FOR THE DISCRETE WAVELET TRANSFORM
Yiannis Andreopoulos, Queen Mary, University of London, United Kingdom; Mihaela van der Schaar, University of California, Los Angeles, United States

TP-L2.7: FEATURE-ADAPTED FAST SLANT STACK
Sylvain Berlemont, Institut Pasteur - Genomic Vision, France; Aaron Bensimon, Genomic Vision, France; Jean-Christophe Olivo-Marin, Institut Pasteur, France

TP-L2.8: USING PHASE AND MAGNITUDE INFORMATION OF THE COMPLEX DIRECTIONAL FILTER BANK FOR TEXTURE IMAGE RETRIEVAL
An P.N. Vo, Soontorn Oraintara, Truong T. Nguyen, University of Texas at Arlington, United States

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TP-L3.1: A FAST ARBITRARY FACTOR H.264/AVC VIDEO RE-SIZING ALGORITHM
Vasant Patil, Institute for Systems Studies and Analyses (ISSA), India; Rajeev Kumar, Indian Institute of Technology, Kharagpur, India

TP-L3.2: FAST INTERFRAME TRANSCODING FROM H.264 TO MPEG-2
Sandro Moiron, Instituto de Telecomunicações, Portugal; Sérgio Faria, Pedro Assunção, Instituto de Telecomunicações / ESTG - Instituto Politécnico de Leiria, Portugal; Vitor Silva, Instituto de Telecomunicações / FCTUC - Universidade de Coimbra, Portugal; António Navarro, Instituto de Telecomunicações / Universidade de Aveiro, Portugal

TP-L3.3: TRANSCODING FROM H.264/AVC TO SVC WITH CGS LAYERS
Jan De Cock, Stijn Notebaert, Rik Van de Walle, Ghent University - IBBT, Belgium

TP-L3.4: CODING MODE DECISION FOR HIGH QUALITY MPEG-2 TO H.264 TRANSCODING
Haruhisa Kato, Akio Yoneyama, Yasuhiro Takishima, KDDI R&D Laboratories Inc., Japan; Yohsuke Kaji, Tokyo University of Science, Japan

TP-L3.5: H.263 TO H.264 TRANSCONDING USING DATA MINING
Gerardo Fernandez-Escribano, Universidad de Castilla-La Mancha, Spain; Jens Bialkowski, University of Erlangen-Nuremberg, Germany; Hari Kalva, Florida Atlantic University, United States; Pedro Cuenca, Luis Orozco-Barbosa, Universidad de Castilla-La Mancha, Spain; André Kaup, University of Erlangen-Nuremberg, Germany

TP-L3.6: A NOVEL SECURE H.264 TRANSCODER USING SELECTIVE ENCRYPTION
Nithin Thomas, Damien Lefol, David Bull, David Redmill, University of Bristol, United Kingdom

TP-L3.7: JOINT OPTIMIZATION OF TRANSFORM COEFFICIENTS FOR HIERARCHICAL B PICTURE CODING IN H.264/AVC
Martin Winken, Heiko Schwarz, Detlev Marpe, Thomas Wiegand, Fraunhofer Institute for Telecommunications - Heinrich Hertz Institute, Germany

TP-L3.8: ROBUST LOW-DELAY VIDEO TRANSMISSION USING H.264/AVC REDUNDANT SLICES AND FLEXIBLE MACROBLOCK ORDERING
Pierpaolo Baccichet, Shantanu Rane, Stanford University, United States; Antonio Chimienti, Consiglio Nazionale delle Ricerche, Italy; Bernd Girod, Stanford University, United States

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TP-L4.1: DIMENSIONALITY REDUCTION OF HYPERSPECTRAL IMAGES FOR COLOR DISPLAY USING SEGMENTED INDEPENDENT COMPONENT ANALYSIS
Yingxuan Zhu, Pramod K. Varshney, Hao Chen, Syracuse University, United States

TP-L4.2: FAST HYPERSPECTRAL ANOMALY DETECTION VIA SVDD
Amit Banerjee, Philippe Burlina, The Johns Hopkins University, United States; Reuven Meth, SET Corporation, United States

TP-L4.3: REGULARIZED SPECTRAL MATCHED FILTER FOR TARGET DETECTION IN HYPERSPECTRAL IMAGERY
Nasser Nasrabadi, US Army Research Laboratory, United States

TP-L4.4: A KALMAN FILTERING APPROACH TO 3-D IR SCENE PREDICTION USING SINGLE-CAMERA RANGE VIDEO
Mehmet Celenk, James Graham, Don Venable, Mark Smearcheck, Ohio University, United States

TP-L4.5: POLARIMETRIC AZIMUTHAL SPECTRAL HISTOGRAM EXPOSES TYPES OF MIXED SCATTERERS AND THE CAUSE FOR UNEXPECTED POLARIMETRIC AVERAGES
Svetlana Bachmann, Cooperative Institute for Mesoscale Meteorological Studies, United States; Dusan Zrnic, National Severe Storm Laboratory, United States; Victor DeBrunner, Florida State University, United States

TP-L4.6: 3D SEISMIC DATA FUSION AND FILTERING USING A PDE-BASED APPROACH
Sorin Pop, Université Bordeaux1 and Technical University of Cluj Napoca, France; Romulus Terebes, Monica Borda, Technical University of Cluj Napoca, Romania; Sebastian Guillon, Naamen Keskes, TOTAL, France; Pierre Baylou, Olivier Lavialle, Université Bordeaux1, France

TP-L4.7: MATERIAL CLASSIFICATION USING PASSIVE POLARIMETRIC IMAGERY
Vimal Thilak, Charles Creusere, David Voelz, New Mexico State University, United States

TP-L4.8: PROCESSING FINE DIGITAL TERRAIN MODELS BY MARKOVIAN REGULARIZATION FROM 3D AIRBORNE LIDAR DATA
Frederic Bretar, Institut Geographique National, France

TP-L5: Biomedical Imaging III: Tomography

TP-L5.1: GEOMETRIC CALIBRATION OF THIRD-GENERATION COMPUTED TOMOGRAPHY SCANNERS FROM SCANS OF UNKNOWN OBJECTS USING COMPLEMENTARY RAYS
Kevin Holt, Varian Medical Systems, United States

TP-L5.2: DART: A FAST HEURISTIC ALGEBRAIC RECONSTRUCTION ALGORITHM FOR DISCRETE TOMOGRAPHY
Kees Joost Batenburg, Jan Sijbers, University of Antwerp, Belgium

TP-L5.3: PI-LINE BASED FAN-BEAM LAMBDA IMAGING WITHOUT SINGULARITIES
Lingjian Chen, Jianhua Ma, Wufan Chen, Southern Medical University, China

TP-L5.4: DYNAMIC IMAGE RECONSTRUCTION USING TEMPORALLY ADAPTIVE REGULARIZATION FOR EMISSION TOMOGRAPHY
Mingwu Jin, Yongyi Yang, Miles N. Wernick, Illinois Institute of Technology, United States

TP-L5.5: INTERFEROMETRIC SYNTHETIC APERTURE MICROSCOPY: PHYSICS-BASED IMAGE RECONSTRUCTION FROM OPTICAL COHERENCE TOMOGRAPHY DATA
Brynmor J. Davis, Tyler S. Ralston, Daniel L. Marks, Stephen A. Boppart, P. Scott Carney, University of Illinois, United States

TP-L5.6: SPATIO-TEMPORAL DEFECT PIXEL INTERPOLATION USING 3-D FREQUENCY SELECTIVE EXTRAPOLATION
Katrin Meisinger, University Erlangen-Nuremberg, Germany; Til Aach, RWTH Aachen University, Germany; André Kaup, University Erlangen-Nuremberg, Germany

TP-L5.7: TOMOGRAPHIC APPROACH FOR PARAMETRIC ESTIMATION OF LOCAL DIFFUSIVE SOURCES AND APPLICATION TO HEAT DIFFUSION
Ivana Jovanovic, Luciano Sbaiz, Martin Vetterli, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

TP-L5.8: NEW CONCEPT OF SCATTERED RADIATION IMAGING WITH HIGH SENSITIVITY

M. K. Nguyen, Gilles Fourreau, CNRS 8051 / ENSEA / Université de Cergy-Pontoise, France; T. T. Truong, Clémence Driol, CNRS 8089 / Université de Cergy-Pontoise, France

TP-L6: Image Coding III

TP-L6.1: NON-GEOMETRIC ENERGY FORMULATION FOR ADAPTIVE IMAGE COMPRESSION

Benjamin Le Guen, Stéphane Pateux, France Télécom R&D, France; Jacques Weiss, Supélec-SCEE/IETR-AC, France

TP-L6.2: A COMPRESSION METHOD FOR ARBITRARY PRECISION FLOATING-POINT IMAGES

*Corey Manders, A*STAR Institute for Infocomm Research, Canada; Steve Mann, University of Toronto, Canada; Farzam Farbiz, A*STAR Institute for Infocomm Research, Singapore*

TP-L6.3: LOCALLY COMPETITIVE ALGORITHMS FOR SPARSE APPROXIMATION

Christopher Rozell, Don Johnson, Richard Baraniuk, Rice University, United States; Bruno Olshausen, University of California, Berkeley, United States

TP-L6.4: UNEQUAL LENGTH FIRST-ORDER LINEAR-PHASE FILTER BANKS FOR EFFICIENT IMAGE CODING

Yuichi Tanaka, Masaaki Ikehara, Keio University, Japan; Truong Q. Nguyen, University of California, San Diego, United States

TP-L6.5: NEAR-LOSSLESS IMAGE COMPRESSION BASED ON MAXIMIZATION OF RUN LENGTH SEQUENCES

E. Nasr-Esfahan, Shadrokh Samavi, N. Karimi, Isfahan University of Technology, Iran; Shahram Shirani, McMaster University, Canada

TP-L6.6: ACQUISITION AND ENCODING OF HIGH DYNAMIC RANGE IMAGES USING INVERSE TONE MAPPING

Takao Jinno, Masahiro Okuda, University of Kitakyushu, Japan; Nicola Adami, University of Brescia, Italy

TP-L6.7: HIGH DIMENSION LATTICE VECTOR QUANTIZER DESIGN FOR GENERALIZED GAUSSIAN DISTRIBUTIONS

Leonardo Fonteles, Marc Antonini, I3S Laboratory, France

TP-L6.8: DCT COEFFICIENT PREDICTION FOR JPEG IMAGE CODING

Gopal Lakhani, Texas Tech University, United States

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TP-P1.1: STRUCTURE PRESERVING IMAGE INTERPOLATION VIA ADAPTIVE 2D AUTOREGRESSIVE MODELING

Xiangjun Zhang, Xiaolin Wu, McMaster University, Canada

TP-P1.2: AN EFFICIENT COMBINED DEMOSAICING AND ZOOMING ALGORITHM FOR DIGITAL CAMERA

King Hong Chung, Yuk Hee Chan, Chang Hong Fu, Yui Lam Chan, The Hong Kong Polytechnic University, Hong Kong SAR of China

TP-P1.3: INTERPOLATION SPECIFIC RESOLUTION SYNTHESIS
Ramez Yoakeim, David Taubman, University of New South Wales, Australia

TP-P1.4: SUPER-RESOLUTION IMAGE RECONSTRUCTION USING THE ICM ALGORITHM
Ana Luísa Dine Martins, Murillo Homem, Nelson Mascarenhas, Universidade Federal de São Carlos, Brazil

TP-P1.5: A PATTERN-BASED INTER-/EXTRA-POLATION APPROACH FOR IMAGE SCALING
Jen-Hui Chuang, Horng-Horng Lin, National Chiao Tung University, Taiwan; Szu-Hui Wu, AU Optronics Corp., Taiwan

TP-P1.6: SUPER-RESOLUTION USING MOTION AND DEFOCUS CUES
Kaggere Suresh, Siddaganga Institute of Technology, India; Ambasamudram Rajagopalan, Indian Institute of Technology, Madras, India

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Amir Said, Hewlett Packard Laboratories, United States

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Basak Oztan, Gaurav Sharma, University of Rochester, United States; Robert P. Loce, Xerox Corporation, United States

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Nai-Xiang Lian, Yap-Peng Tan, Nanyang Technological University, Singapore

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Carman K. M. Yuk, Oscar C. Au, Richard Y.M. Li, Sui-Yuk Lam, Hong Kong University of Science and Technology, Hong Kong SAR of China

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Chris Aimone, Steve Mann, University of Toronto, Canada

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Su Xue, Qionghai Dai, Tsinghua University, China

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Riccardo Bernardini, Marco Durigon, Roberto Rinaldo, Pamela Zontone, University of Udine, Italy; Andrea Vitali, ST Microelectronics Ltd, Italy

TP-P2.3: EDGE WEIGHTED SPATIO-TEMPORAL SEARCH FOR ERROR CONCEALMENT
*Ee Sin Ng, Jo Yew Tham, Susanto Rahardja, A*STAR Institute for Infocomm Research, Singapore*

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Chunbo Zhu, University of Science and Technology of China, China; Ye-Kui Wang, Nokia Research Center, Finland; Houqiang Li, University of Science and Technology of China, China

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Joost Rombaut, Aleksandra Pizurica, Wilfried Philips, Ghent University, Belgium

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Waqar Zia, Klaus Diepold, Technische Universität München, Germany; Thomas Stockhammer, Nomor Research GmbH, Germany

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Che-Chun Su, Jason Yao, Homer Chen, National Taiwan University, Taiwan

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Ermin Kozica, Dave Zachariah, Bastiaan Kleijn, KTH (Royal Institute of Technology), Sweden

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Yi Liu, Jiajun Bu, Chun Chen, Linjian Mo, Kewei He, Zhejiang University, China

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Wai-tian Tan, Eric Setton, John Apostolopoulos, Hewlett Packard, United States

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Weijia Shen, Ashraf A. Kassim, National University of Singapore, Singapore

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Ferda Ofli, Engin Erzin, Yucel Yemez, A. Murat Tekalp, Koç University, Turkey

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Nikolay Metodiev Sirakov, Texas A&M University Commerce, United States

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Nikom Suvonvorn, Prince of Songkhla University, Thailand; François Le Coat, Bertrand Zavidovique, Institut d'Électronique Fondamentale, France

TP-P3.6: 3D TRACKING OF CELLULOSE FIBRES IN VOLUME IMAGES
Maria Axelsson, Swedish University of Agricultural Sciences, Sweden

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Yong Wei, Suchendra Bhandarkar, Kang Li, University of Georgia, United States

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Ming Zhang, Jyh-Charn Liu, Texas A&M University, United States

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Daniel Alonso, Luis Salgado, Marcos Nieto, Grupo de Tratamiento de Imágenes - E.T.S. Ing. Telecomunicación, Spain

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Veronica Vilaplana, Ferran Marques, Technical University of Catalonia (UPC), Spain

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P. Ravindran, N. J. Ferrier, S. M. Park, P. F. Nealey, University of Wisconsin-Madison, United States

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J. P. Lewis, Stanford University, United States; Iman Mostafavi, Gina Sosinsky, Maryanne Martone, Ruth West, University of California, San Diego, United States

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Andy Backhouse, Irene Y. H. Gu, Chalmers University of Technology, Sweden; Tiesheng Wang, Shanghai Jiao Tong University, China

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Zhiwen Yu, Hau-San Wong, City University of Hong Kong, Hong Kong SAR of China

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Hang Zhou, David Suter, Institute for Vision Systems Engineering, Australia

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Xin Fan, Guoliang Fan, Oklahoma State University, United States; Dequn Liang, Dalian Maritime University, China

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Tao Wan, Nishan Canagarajah, Alin Achim, University of Bristol, United Kingdom

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Patrick Etyngier, Renaud Keriven, Florent Ségonne, Ecole des ponts, France

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James Malcolm, Yogesh Rathi, Allen Tannenbaum, Georgia Institute of Technology, United States

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Ayman El-baz, University of Louisville, United States; Georgy Gimel'farb, University of Auckland, New Zealand

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Neil Toronto, Bryan Morse, Dan Ventura, Kevin Seppi, Brigham Young University, United States

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Xin Huang, Huiying Li, Søren Forchhammer, Technical University of Denmark, Denmark

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Hideki Noda, Nobuteru Takao, Michiharu Niimi, Kyushu Institute of Technology, Japan

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Dung Vo, Truong Nguyen, University of California, San Diego, United States

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Ihor Kirenko, Ling Shao, Philips Research Laboratories, Netherlands

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Sitaram Bhagavathy, Joan Llach, Jie fu Zhai, Thomson Corporate Research, United States

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Frank van Heesch, Michiel Klompenhouwer, Philips Research Laboratories, Netherlands

TP-P5.7: ITERATIVE BLIND IMAGE MOTION DEBLURRING VIA LEARNING A NO-REFERENCE IMAGE QUALITY MEASURE
Wen-Hao Lee, Shang-Hong Lai, National Tsing Hua University, Taiwan; Chia-Lun Chen, Industrial Technology Research Institute, Taiwan

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Ikuko Tsubaki, Sharp Corp., Japan; Takashi Komatsu, Takahiro Saito, Kanagawa University, Japan

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Vinay Namboodiri, Subhasis Chaudhuri, Indian Institute of Technology, Bombay, India

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Buyue Zhang, Texas Instruments, Incorporated, United States; Jan Allebach, Purdue University, United States

TP-P5.11: A VARIATIONAL RECOVERY METHOD FOR VIRTUAL VIEW SYNTHESIS
Akira Kubota, Tokyo Institute of Technology, Japan; Takahiro Saito, Kanagawa University, Japan

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Dalong Li, Steven Simske, Hewlett Packard Laboratories, United States; Russell Mersereau, Georgia Institute of Technology, United States

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Sz-Han Chen, Chiou-Ting Hsu, National Tsing Hua University, Taiwan

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Ahmet E. Dirik, Sevinc Bayram, H. Taha Sencar, Nasir Memon, Polytechnic University, United States

TP-P6.3: COLLUSION RESILIENT FINGERPRINT DESIGN BY ALTERNATING PROJECTIONS
H. Oktay Altun, Gaurav Sharma, Adem Orsdemir, Mark F. Bocko, University of Rochester, United States

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Mourad Gueham, Ahmed Bouridane, Danny Crookes, Queen's University Belfast, United Kingdom

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Qiming Li, Nasir Memon, Polytechnic University, United States

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Alvaro Cárdenas, University of California, Berkeley, United States; George V. Moustakides, University of Patras, Greece; John S. Baras, University of Maryland, College Park, United States

TP-P6.7: AVOIDING HARD DECISIONS IN ADAPTIVE WATERMARKING
Mathias Schlauweg, Dima Pröfrock, Erika Müller, University of Rostock, Germany

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Tadahiko Kimoto, Toyo University, Japan

TP-P6.9: ENABLING BETTER MEDICAL IMAGE CLASSIFICATION THROUGH SECURE COLLABORATION
Jaideep Vaidya, Bhakti Tulpule, Rutgers University, United States

TP-P6.10: LOSSLESS IMAGE COMPRESSION AND SELECTIVE ENCRYPTION USING A DISCRETE RADON TRANSFORM
Andrew Kingston, Simone Colosimo, IRCCyN Lab. Polytech'Nantes, France; Patrizio Campisi, Universita degli Studi di Roma Tre, Italy; Florent Autrusseau, IRCCyN Lab. Polytech'Nantes, France

TP-P7: Biometrics IV: Face Recognition

TP-P7.1: FACE VERIFICATION USING LOCALLY LINEAR DISCRIMINANT MODELS
Marios Kyperountas, Aristotle University of Thessaloniki, Greece; Anastasios Tefas, Technological Institution of Kavala, Greece; Ioannis Pitas, Aristotle University of Thessaloniki, Greece

TP-P7.2: FACIAL EXPRESSION SEQUENCE SYNTHESIS BASED ON SHAPE AND TEXTURE FUSION MODEL
Lei Xiong, Nanning Zheng, Qubo You, Jianyi Liu, Xi'an Jiaotong University, China

TP-P7.3: TUNING ASYMBOOST CASCADES IMPROVES FACE DETECTION
Ingrid Visentini, Christian Micheloni, Gian Luca Foresti, Universita degli studi di Udine, Italy

TP-P7.4: ROBUST LIP LOCALIZATION ON MULTI-VIEW FACES IN VIDEO
Yi Wu, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China; Rui Ma, State Key Laboratory of Intelligent Technology and Systems, Tsinghua University, China; Wei Hu, Tao Wang, Yiming Zhang, Intel China Research Center, China; Jian Cheng, Hanqing Lu, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

TP-P7.5: MODELING GABOR COEFFICIENTS VIA GENERALIZED GAUSSIAN DISTRIBUTIONS FOR FACE RECOGNITION
Daniel Gonzalez-Jimenez, Fernando Perez-Gonzalez, Pedro Comesana-Alfaro, Luis Perez-Freire, Jose Luis Alba-Castro, University of Vigo, Spain

TP-P7.6: USING A MARKOV NETWORK TO RECOGNIZE PEOPLE IN CONSUMER IMAGES
Andrew Gallagher, Carnegie Mellon University / Kodak, United States; Tsuhan Chen, Carnegie Mellon University, United States

TP-P7.7: A NOVEL KERNEL DISCRIMINANT ANALYSIS FOR FACE VERIFICATION
Georgios Goudelis, Stefanos Zafeiriou, Anastasios Tefas, Ioannis Pitas, Aristotle University, Greece

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Federico Matta, Jean-Luc Dugelay, Eurecom Institute, France

TP-P7.9: FACE RECOGNITION USING A FAST MODEL SYNTHESIS FROM A PROFILE AND A FRONTAL VIEW
Antonio Rama, Francesc Tarres, Technical University of Catalonia (UPC), Spain

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Jianguo Li, Tao Wang, Yimin Zhang, Intel China Research Center, China

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A-Nasser Ansari, Mohamed Abdel-Mottaleb, Mohammad Mahoor, University Miami, United States

TP-P7.12: LOCATING NOSETIPS AND ESTIMATING HEAD POSE IN IMAGES BY TENSORPOSES
Jilin Tu, Thomas Huang, University of Illinois at Urbana-Champaign, United States

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Xiaoyu Zhang, Jian Cheng, Hanqing Lu, Songde Ma, Institute of Automation, Chinese Academy of Sciences, China

TP-P8.2: FAST SCALE-SPACE FEATURE REPRESENTATIONS BY GENERALIZED INTEGRAL IMAGES
Konstantinos Derpanis, Erich Leung, Mikhail Sizintsev, York University, Canada

TP-P8.3: TEMPORALLY CONSISTENT GAUSSIAN RANDOM FIELD FOR VIDEO SEMANTIC ANALYSIS
Jinhui Tang, University of Science and Technology of China, China; Xian-Sheng Hua, Tao Mei, Microsoft Research Asia, China; Guo-Jun Qi, University of Science and Technology of China, China; Shipeng Li, Microsoft Research Asia, China; Xiuqing Wu, University of Science and Technology of China, China

TP-P8.4: UNSUPERVISED MODELING OF OBJECT TRACKS FOR FAST ANOMALY DETECTION
Tomas Izo, W. Eric L. Grimson, Massachusetts Institute of Technology, United States

TP-P8.5: A HMM-BASED METHOD FOR RECOGNIZING DYNAMIC VIDEO CONTENTS FROM TRAJECTORIES
Alexandre Hervieu, Patrick Bouthemy, Jean-Pierre Le Cadre, INRIA Rennes, France

TP-P8.6: INFORMATION-THEORETIC CONTENT SELECTION FOR AUTOMATED HOME VIDEO EDITING
Patricia P. Wang, Tao Wang, Jianguo Li, Yimin Zhang, Intel China Research Center, China

TP-P8.7: ONLINE PARSING OF SPORTS COACHING VIDEO THROUGH INTRINSIC MOTION ANALYSIS
Dan Ring, Anil Kokaram, Trinity College Dublin, Ireland

TP-P8.8: FINDING REGIONS OF INTEREST IN HOME VIDEOS BASED ON CAMERA MOTION
Golnaz Abdollahian, Edward J. Delp, Purdue University, United States

TP-P8.9: MULTI-CAMERA SCENE ANALYSIS USING AN OBJECT-CENTRIC CONTINUOUS DISTRIBUTION HIDDEN MARKOV MODEL
Murtaza Taj, Andrea Cavallaro, Queen Mary, University of London, United Kingdom

TP-P8.10: A NEW ANGLE-BASED SPATIAL MODELING FOR QUERY BY VISUAL THESAURUS COMPOSITION
Hichem Houissa, Nozha Boujemaa, INRIA Rocquencourt, France

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WA-L1.1: MICROCALCIFICATION CLASSIFICATION ASSISTED BY CONTENT-BASED IMAGE RETRIEVAL FOR BREAST CANCER DIAGNOSIS
Yongyi Yang, Liyang Wei, Illinois Institute of Technology, United States; Roberts M Nishikawa, University of Chicago, United States

WA-L1.2: BILATERAL BREAST VOLUME ASYMMETRY IN SCREENING MAMMOGRAMS AS A POTENTIAL MARKER OF BREAST CANCER: PRELIMINARY EXPERIENCE
Nevine Eltonsy, Adel Elmaghraby, University of Louisville, United States; Georgia Tourassi, Duke University Medical Center, United States

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Ying Wang, Xinbo Gao, Jie Li, Xidian University, China

WA-L1.4: TIME REVERSAL BEAMFORMING FOR MICROWAVE BREAST CANCER DETECTION
Yuanwei Jin, Yi Jiang, Jose' M. F. Moura, Carnegie Mellon University, United States

WA-L1.5: GEOMETRIC FEATURES BASED FRAMEWORK FOR COLONIC POLYP DETECTION USING A NEW COLOR CODING SCHEME
Dongqing Chen, Aly Farag, University of Louisville, United States; M. Sabry Hassouna, Vital Images, Inc., United States; Rebort Falk, Jewish Hospital, United States; Gerald Dryden, University of Louisville, United States

WA-L1.6: CT COLONOGRAPHY COMPUTER-AIDED POLYP DETECTION USING TOPOGRAPHICAL HEIGHT MAP
Jianhua Yao, National Institutes of Health, United States; Jiang Li, Old Dominion University, United States; Ronald Summers, National Institutes of Health, United States

WA-L1.7: 3D SEGMENTATION OF THE PROSTATE VIA POISSON INVERSE GRADIENT INITIALIZATION
Bing Li, Abhay V. Patil, John A. Hossack, Scott T. Acton, University of Virginia, United States

WA-L1.8: AN IMAGE ENHANCEMENT ALGORITHM BASED ON A CONTRAST MEASURE IN THE WAVELET DOMAIN FOR SCREENING MAMMOGRAMS
Jinshan Tang, Qingling Sun, Kwabena Agyepong, Alcorn State University, United States

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WA-L2.1: MULTI-MODAL PARTICLE FILTERING TRACKING USING APPEARANCE, MOTION AND AUDIO LIKELIHOODS
Matteo Bregonzio, Murtaza Taj, Andrea Cavallaro, Queen Mary, University of London, United Kingdom

WA-L2.2: A GRAPH-BASED FOREGROUND REPRESENTATION AND ITS APPLICATION IN EXAMPLE BASED PEOPLE MATCHING IN VIDEO
Kedar Patwardhan, Guillermo Sapiro, Vassilios Morellas, University of Minnesota, United States

WA-L2.3: MONOCULAR TRACKING 3D PEOPLE BY GAUSSIAN PROCESS SPATIO-TEMPORAL VARIABLE MODEL
Junbiao Pang, Laiyun Qing, Qingming Huang, Shuqiang Jiang, Institute of Computing Technology, Chinese Academy of Sciences, China; Wen Gao, Institute of Digital Media, Peking University, China

WA-L2.4: BACKGROUND SUBTRACTION USING INCREMENTAL SUBSPACE LEARNING
Lu Wang, Lei Wang, Ming Wen, Qing Zhuo, Wenyuan Wang, Tsinghua University, China

WA-L2.5: ROBUST OBJECT TRACKING USING LOCAL KERNELS AND BACKGROUND INFORMATION
Jaideep Jeyakar, Venkatesh Babu Radhakrishnan, Ramakrishnan K. R., Indian Institute of Science, India

WA-L2.6: JOINT SEGMENTATION OF MOVING OBJECT AND ESTIMATION OF BACKGROUND IN LOW-LIGHT VIDEO USING RELAXATION
Pedro M. Q. Aguiar, ISR / IST, Portugal; José M. F. Moura, Carnegie Mellon University, United States

WA-L2.7: MULTICUES 2D ARTICULATED POSE TRACKING USING PARTICLE FILTERING AND BELIEF PROPAGATION ON FACTOR GRAPHS
Philippe Noriega, Olivier Bernier, France Télécom, France

WA-L2.8: ON UNCERTAINTIES, RANDOM FEATURES AND OBJECT TRACKING
Vijay Badrinarayanan, Thomson Corporate Research, France; Patrick Perez, IRISA-INRIA Rennes, France; François Le Clerc, Lionel Oisel, Thomson Corporate Research, France

WA-L3: Image & Video Communication II

WA-L3.1: TRANSMISSION-DISTORTION TRADEOFFS IN NETWORK CHANNEL CODING
Shirish Karande, Hayder Radha, Michigan State University, United States

WA-L3.2: DISTRIBUTED CHANNEL TIME ALLOCATION AND RATE ADAPTATION FOR MULTI-USER VIDEO STREAMING OVER WIRELESS HOME NETWORKS

Xiaoqing Zhu, Stanford University, United States; Peter van Beek, Sharp Laboratories of America, United States; Bernd Girod, Stanford University, United States

WA-L3.3: OPTIMAL CARRIER LOADING FOR MAXIMIZING VISUAL ENTROPY OVER OFDMA CELLULAR NETWORKS

Uk Jang, Hyungkuek Lee, Sanghoon Lee, Yonsei University, Republic of Korea

WA-L3.4: CHARACTERIZING PACKET-LOSS IMPAIRMENTS IN COMPRESSED VIDEO

Amy R. Reibman, David Poole, AT&T Labs - Research, United States

WA-L3.5: TOWARDS QUALITY OF SERVICE FOR PEER-TO-PEER VIDEO MULTICAST

Eric Setton, John Apostolopoulos, Hewlett Packard Laboratories, United States

WA-L3.6: RESOURCE ALLOCATION FOR DOWNLINK MULTIUSER VIDEO TRANSMISSION OVER WIRELESS LOSSY NETWORKS

Ehsan Maani, Peshala Pahalawatta, Randall Berry, Thrasyvoulos Pappas, Aggelos Katsaggelos, Northwestern University, United States

WA-L3.7: ANALYSIS OF UTILITY FUNCTIONS FOR VIDEO

Cheolhong An, Truong Q. Nguyen, University of California, San Diego, United States

WA-L3.8: A NOVEL PARADIGM FOR OPTIMIZED SCALABLE VIDEO TRANSMISSION BASED ON JPEG2000 WITH MOTION

Aous Naman, David Taubman, University of New South Wales, Australia

WA-L4: Stereoscopic and 3D Processing IV: Stereoscopic and 3-D Coding

WA-L4.1: MULTIPLE DESCRIPTION CODING OF PLANE-BASED 3-D SURFACES

Sung-Bum Park, Samsung Electronics Co., Ltd., Republic of Korea; Chang-Su Kim, Korea University, Republic of Korea; Sang-Uk Lee, Seoul National University, Republic of Korea

WA-L4.2: A NOVEL ERROR CONCEALMENT METHOD FOR STEREOSCOPIC VIDEO CODING

Xinguang Xiang, Debin Zhao, Qiang Wang, Harbin Institute of Technology, China; Xiangyang Ji, Chinese Academy of Sciences, China; Wen Gao, Peking University, China

WA-L4.3: DEPTH-IMAGE COMPRESSION BASED ON AN R-D OPTIMIZED QUADTREE DECOMPOSITION FOR THE TRANSMISSION OF MULTIVIEW IMAGES

Yannick Morvan, Dirk Farin, Peter de With, Eindhoven University of Technology, Netherlands

WA-L4.4: LAYERED PREDICTIVE CODING OF TIME-CONSISTENT DYNAMIC 3D MESHES USING A NON-LINEAR PREDICTOR

Nikolce Stefanoski, Patrick Klie, Xiaoliang Liu, Jörn Ostermann, Leibniz Universität Hannover, Germany

WA-L4.5: RATE-DISTORTION BASED PIECEWISE PLANAR 3D SCENE GEOMETRY REPRESENTATION

Evren Imre, Aydin Alatan, Middle East Technical University, Turkey; Ugur Gudukbay, Bilkent University, Turkey

WA-L4.6: MESH-BASED DEPTH CODING FOR 3D VIDEO USING HIERARCHICAL DECOMPOSITION OF DEPTH MAPS
Sung-Yeol Kim, Yo-Sung Ho, Gwangju Institute of Science and Technology, Republic of Korea

WA-L4.7: PACKET LOSS RESILIENT TRANSMISSION OF 3D MODELS
M. Oguz Bici, Middle East Technical University, Turkey; Andrey Norkin, Tampere University of Technology, Finland; Gozde Bozdagi Akar, Middle East Technical University, Turkey

WA-L4.8: RATE-DISTORTION OPTIMAL DEPTH MAPS IN THE WAVELET DOMAIN FOR FREE-VIEWPOINT RENDERING
Matthieu Maitre, Yoshihisa Shinagawa, Minh Do, University of Illinois at Urbana-Champaign, United States

WA-L5: Video Surveillance II

WA-L5.1: LIFETIME-DISTORTION TRADE-OFF IN IMAGE SENSOR NETWORKS
Chao Yu, Stanislava Soro, Gaurav Sharma, Wendi Heinzelman, University of Rochester, United States

WA-L5.2: DETERMINING TOPOLOGY IN A DISTRIBUTED CAMERA NETWORK
Xiaotao Zou, Bir Bhanu, Bi Song, Amit K. Roy-Chowdhury, University of California, Riverside, United States

WA-L5.3: INFINITE HIDDEN MARKOV MODELS AND ISA FEATURES FOR UNUSUAL-EVENT DETECTION IN VIDEO
Iulian Pruteanu-Malinici, Lawrence Carin, Duke University, United States

WA-L5.4: WRONG WAY DRIVERS DETECTION BASED ON OPTICAL FLOW
Gonçalo Monteiro, Miguel Ribeiro, João Marcos, Jorge Batista, Institute of Systems and Robotics, Portugal

WA-L5.5: ABNORMAL EVENT DETECTION FROM SURVEILLANCE VIDEO BY DYNAMIC HIERARCHICAL CLUSTERING
Fan Jiang, Ying Wu, Aggelos Katsaggelos, Northwestern University, United States

WA-L5.6: REAL-TIME MOVING OBJECT CLASSIFICATION WITH AUTOMATIC SCENE DIVISION
Zhaoxiang Zhang, Yinghao Cai, Kaiqi Huang, Tieniu Tan, Chinese Academy of Sciences, China

WA-L5.7: OBJECT EXTRACTION BY SPATIO-TEMPORAL ASSEMBLING
Xiaoke Qin, Tsinghua University, China; Liang Tang, Hewlett Packard Laboratories China, China; Jie Zhou, Tsinghua University, China

WA-L5.8: CODESTREAM DOMAIN SCRAMBLING OF MOVING OBJECTS BASED ON DCT SIGN-ONLY CORRELATION FOR MOTION JPEG MOVIES
Keijiro Kuroiwa, Masaaki Fujiyoshi, Hitoshi Kiya, Tokyo Metropolitan University, Japan

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WA-L6.1: A PARALLEL CBIR IMPLEMENTATION USING PERCEPTUAL GROUPING OF BLOCK-BASED VISUAL PATTERNS
Shyi-Chyi Cheng, National Taiwan Ocean University, Taiwan; Wei-Kan Huang, Yu-Jhih Liao, Da-Chun Wu, National Kaohsiung First University of Science & Technology, Taiwan

WA-L6.2: SEQUENTIAL, IRREGULAR AND COMPLEX OBJECT CONTOUR TRACING ON FPGA
Kumara Ratnayake, Aishy Amer, Concordia University, Canada

WA-L6.3: ANALYSIS AND INTEGRATED ARCHITECTURE DESIGN FOR OVERLAP SMOOTH AND IN-LOOP DEBLOCKING FILTER IN VC-1
Yen-Lin Lee, Truong Nguyen, University of California, San Diego, United States

WA-L6.4: ANALYSIS OF MULTIPLE PARALLEL BLOCK CODING IN JPEG2000
Michael Dyer, Saeid Nooshabadi, David Taubman, Univeristy of New South Wales, Australia

WA-L6.5: A HIGH-SPEED VISION SYSTEM FOR MOMENT-BASED ANALYSIS OF NUMEROUS OBJECTS
Yoshihiro Watanabe, Takashi Komuro, Masatoshi Ishikawa, University of Tokyo, Japan

WA-L6.6: NATURAL HUMAN-MACHINE INTERFACE USING AN INTERACTIVE VIRTUAL BLACKBOARD
Nicola Conci, Paolo Ceresato, Francesco G. B. De Natale, University of Trento, Italy

WA-L6.7: ADAPTIVE MULTIRESOLUTION FOR LOW POWER CMOS IMAGE SENSOR
Arnaud Verdant, CEA, France; Antoine Dupret, Hervé Mathias, IEF, France; Patrick Villard, CEA, France; Lionel Lacassagne, IEF, France

WA-L6.8: SOFTWARE PIPELINES DESIGN FOR VARIABLE BLOCK-SIZE MOTION ESTIMATION WITH LARGE SEARCH RANGE
Zhigang Yang, Harbin Institute of Technology, China; Wen Gao, Chinese Academy of Sciences, China; Yan Liu, Debin Zhao, Harbin Institute of Technology, China

WA-P1: Stereoscopic and 3D Processing V: Stereo Image Processing & Camera Calibration

WA-P1.1: AN EXTENSION OF THE ICP ALGORITHM CONSIDERING SCALE FACTOR
Shaoyi Du, Nanning Zheng, Institute of Artificial Intelligence and Robotics, China; Shihui Ying, Research Center of Applied Mathematics, China; Qubo You, Yang Wu, Institute of Artificial Intelligence and Robotics, China

WA-P1.2: CLOSED FORM MONOCULAR RE-PROJECTIVE POSE ESTIMATION
Georg Pisinger, Tobias Hanning, University of Passau, Germany

WA-P1.3: MAP ESTIMATION OF EPIPOLAR GEOMETRY BY EM ALGORITHM AND LOCAL DIFFUSION
Wenfeng Li, Baoxin Li, Arizona State University, United States

WA-P1.4: A SIMULTANEOUS VIEW INTERPOLATION AND MULTIPLEXING METHOD USING STEREO IMAGE PAIRS FOR LENTICULAR DISPLAY
HanShin Lim, Seok-Hoon Kim, Korea Advanced Institute of Science and Technology, Republic of Korea; Yun-Gu Lee, Samsung Electronics Co., Ltd., Republic of Korea; HyunWook Park, Korea Advanced Institute of Science and Technology, Republic of Korea

WA-P1.5: RECURSIVE CAMERA AUTOCALIBRATION WITH THE KALMAN FILTER
Guillermo Gallego, José I. Ronda, Universidad Politécnica de Madrid, Spain; Antonio Valdés, Universidad Complutense de Madrid, Spain; Narciso García, Universidad Politécnica de Madrid, Spain

WA-P1.6: REGION-BASED DENSE DEPTH EXTRACTION FROM MULTI-VIEW VIDEO
Cevahir Cigla, Middle East Technical University, Turkey; Xenophon Zabulis, Informatics and Telematics Institute, Greece; Aydin Alatan, Middle East Technical University, Turkey

WA-P1.7: ACQUISITION PROCESSING CHAIN FOR DYNAMIC PANORAMIC IMAGE SEQUENCES
Markus Beermann, Eric Dubois, University of Ottawa, Canada

WA-P1.8: A SUB-PIXEL STEREO CORRESPONDENCE TECHNIQUE BASED ON 1D PHASE-ONLY CORRELATION
Takuma Shibahara, Takafumi Aoki, Tohoku University, Japan; Hiroshi Nakajima, Koji Kobayashi, Yamatake Corporation, Japan

WA-P1.9: GENERATION OF LAYERED DEPTH IMAGES FROM MULTI-VIEW VIDEO
Xiaoyu Cheng, Lifeng Sun, Shiqiang Yang, Tsinghua University, China

WA-P1.10: CONFOCAL DISPARITY ESTIMATION AND RECOVERY OF PINHOLE IMAGE FOR REAL-APERTURE STEREO CAMERA SYSTEMS
Jangheon Kim, Thomas Sikora, Technical University of Berlin, Germany

WA-P1.11: LIGHT FIELD ACQUISITION USING PROGRAMMABLE APERTURE CAMERA
Chia-Kai Liang, Gene Liu, Homer Chen, National Taiwan University, Taiwan

WA-P1.12: LIFTING WAVELET CODING WITH PERMUTATION AND COEFFICIENTS MODIFICATION FOR STRUCTURED 3-D GEOMETRY WITH EXPANDED NODES
Shuji Watanabe, Akira Kawanaka, Sophia University, Japan

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Lifeng He, University of Chicago, United States; Yuyan Chao, Nagoya Sangyo University, Japan; Kenji Suzuki, University of Chicago, United States

WA-P2.2: MULTI-VECTOR COLOR-IMAGE FILTERS
Todd Ell, University of Essex, United States

WA-P2.3: HYPERCOMPLEX COLOR AFFINE FILTERS
Todd Ell, University of Essex, United States

WA-P2.4: TWISTER SEGMENT MORPHOLOGICAL FILTERING. A NEW METHOD FOR LIVE ZEBRAFISH EMBRYOS CONFOCAL IMAGES PROCESSING.
Miguel Angel Luengo-Oroz, Universidad Politécnica de Madrid, Spain; Emmanuel Faure, Benoit Lombardot, École Polytechnique, France; Rosario Sance, Universidad Politécnica de Madrid, Spain; Paul Bourgine, École Polytechnique, France; Nadine Peyrieras, DEPSN, CNRS, France; Andres Santos, Universidad Politécnica de Madrid, Spain

WA-P2.5: P-LAPLACIAN DRIVEN IMAGE PROCESSING
Arjan Kuijper, RICAM, Austrian Academy of Sciences, Austria

WA-P2.6: LAPLACIAN OPERATORS FOR DIRECT PROCESSING OF RANGE DATA
Sonya Coleman, Shanmugalingam Suganthan, Bryan Scotney, University of Ulster, United Kingdom

WA-P2.7: AN ITERATIVE METHOD FOR VECTOR MEDIAN FILTERING
Clay Spence, Craig Fancourt, Sarnoff Corporation, United States

WA-P2.8: ON THE 2D TEAGER-KAISER OPERATOR
Julian Quiroga, Alfredo Restrepo, Lina Wedefort, Margarita Velasco, Universidad de los Andes, Colombia

WA-P2.9: CONCURRENT EDGE AND CORNER DETECTION
Sonya Coleman, Dermot Kerr, Bryan Scotney, University of Ulster, United Kingdom

WA-P2.10: HIGHLY ACCURATE ORIENTATION ESTIMATION USING STEERABLE FILTERS
Jakub Kominiarczuk, Vortical Flow Research Lab, United States; Kai Krajsek, Rudolf Mester, J. W. Goethe University, Germany

WA-P2.11: FAST 8-BIT MEDIAN FILTERING BASED ON SEPARABILITY
David Cline, Kenric White, Parris Egbert, Brigham Young University, United States

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WA-P3.1: ESTIMATION OF FADE AND DISSOLVE PARAMETERS FOR WEIGHTED PREDICTION IN H.264/AVC
Fatih Kamisli, Massachusetts Institute of Technology, United States; David Baylon, Motorola, Inc., United States

WA-P3.2: EFFICIENT INTRA MODE SELECTION USING IMAGE STRUCTURE TENSOR FOR H.264/AVC
Chiuan Hwang, ShinShan Zhuang, Shang-Hong Lai, National Tsing Hua University, Taiwan

WA-P3.3: AN IMPROVED ZERO-BLOCK MODE DECISION ALGORITHM FOR H.264/AVC
Yu-Ming Lee, Yinyi Lin, National Central University, Taiwan

WA-P3.4: P-FRAME TRANSCODING IN VC-1 TO H.264 TRANSCODERS
Maria Pantoja, Santa Clara University, United States; Hari Kalva, Florida Atlantic University, United States; Jae-Beom Lee, Sarnoff Corporation, United States

WA-P3.5: A FAST INTER-MODE DECISION ALGORITHM BASED ON MACRO-BLOCK TRACKING FOR P SLICES IN THE H.264/AVC VIDEO STANDARD
Byung-Gyu Kim, Chang-Sik Cho, Electronics and Telecommunications Research Institute, Republic of Korea

WA-P3.6: HRD CONFORMANCE FOR REAL-TIME H.264 VIDEO ENCODING
Jennifer Webb, Texas Instruments, Incorporated, United States

WA-P3.7: IMPROVED RATE CONTROL AND MOTION ESTIMATION FOR H.264 ENCODER
Loren Merritt, VideoLAN, France; Rahul Vanam, University of Washington, United States

WA-P3.8: COMPLEXITY MODELING FOR MOTION COMPENSATION IN H.264/AVC DECODER
Szu-Wei Lee, C.-C. Jay Kuo, University of Southern California, United States

WA-P3.9: EFFICIENT MOTION ESTIMATION IN H.264 REVERSE TRANSCODING
Chang-Hong Fu, Yui-Lam Chan, Wan-Chi Siu, The Hong Kong Polytechnic University, Hong Kong SAR of China

WA-P3.10: FAST MODE DECISION FOR INTRA PREDICTION IN H.264/AVC ENCODER
Byeongdu La, Minyoung Eom, Yoonsik Choe, Yonsei University, Republic of Korea

WA-P3.11: A FAST MOTION-COST BASED ALGORITHM FOR H.264/AVC INTER MODE DECISION
Eduardo Martínez-Enríquez, Manuel de-Frutos-López, Jose Carlos Pujol-Alcolado, Fernando Díaz-de-María, Universidad Carlos III, Spain

WA-P3.12: AN ADAPTIVE THRESHOLDING TECHNIQUE FOR THE DETECTION OF ALL-ZEROS BLOCKS IN H.264
Dajun Wu, Keng Pang Lim, Tuan Kiang Chiew, Jo Yew Tham, Institute for Infocomm Research, Singapore

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WA-P4.1: ELLIPSE DETECTION WITH HOUGH TRANSFORM IN ONE DIMENSIONAL PARAMETRIC SPACE
Alex Chia, Maylor Leung, Nanyang Technological University, Singapore; How-Lung Eng, Susanto Rahardja, Institute for Infocomm Research, Singapore

WA-P4.2: OBJECT RECOGNITION BASED ON DEPENDENT PACHINKO ALLOCATION MODEL
Yuanning Li, Institute of Computing Technology, Chinese Academy of Sciences, China; Weiqiang Wang, Chinese Academy of Sciences, China; Wen Gao, Institute of Computing Technology, Chinese Academy of Sciences, China

WA-P4.3: MAP PARTICLE SELECTION IN SHAPE-BASED OBJECT TRACKING
Alessio Dore, University of Genova, Italy; Mirko Musso, TechnoAware S.r.l., Italy; Carlo Regazzoni, University of Genova, Italy

WA-P4.4: A HIERARCHICAL APPROACH FOR FAST AND ROBUST ELLIPSE EXTRACTION
Fei Mai, Y. S. Hung, Huang Zhong, W. F. Sze, University of Hong Kong, China

WA-P4.5: SKELETONIZATION USING SSM OF THE DISTANCE TRANSFORM
Longin Jan Latecki, Temple University, United States; Quan-nan Li, Xiang Bai, Wen-yu Liu, HuaZhong University of Science and Technology, China

WA-P4.6: A CASE-BASED REASONING APPROACH FOR UNKNOWN CLASS INVOICE PROCESSING
Hatem Hamza, ITESOFT/LORIA, University Nancy 2, France; Yolande Belaïd, Abdel Belaïd, LORIA, University Nancy 2, France

WA-P4.7: A FAST 3-D MEDICAL IMAGE REGISTRATION ALGORITHM BASED ON EQUIVALENT MERIDIAN PLAN
Zhentai Lu, Qianjin Feng, Southern Medical University, China; Pengcheng Shi, Hong Kong University of Science and Technology, Hong Kong SAR of China; Wufan Chen, Southern Medical University, China

WA-P4.8: CORNER-GUIDED IMAGE REGISTRATION BY USING EDGES
Yong Li, Robert Stevenson, Jiading Gai, University of Notre Dame, United States

WA-P4.9: ACCURATE AND ROBUST IMAGE ALIGNMENT FOR ROAD PROFILE RECONSTRUCTION
Jean-Philippe Tarel, LCPC, France; Sio-Song Ieng, LRPC d'Angers, France; Pierre Charbonnier, LRPC de Strasbourg, France

WA-P4.10: WINDOW-BASED IMAGE REGISTRATION USING VARIABLE WINDOW SIZES
Andreas Krutz, Technische Universität Berlin, Germany; Michael Frater, University of New South Wales, Australia; Thomas Sikora, Technische Universität Berlin, Germany

WA-P4.11: ON THE RESOLUTION LIMITS OF SUPERIMPOSED PROJECTION
Niranjan Damera-Venkata, Nelson Chang, Hewlett Packard Laboratories, United States

WA-P4.12: ELASTIC REGISTRATION OF THE CORPUS CALLOSUM
Hossam E Abd El Munim, Aly A. Farag, CVIP Lab, United States

WA-P5: Interpolation and Superresolution III

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Alptekin Temizel, Middle East Technical University, Turkey

WA-P5.2: A COMPACT IMAGE MAGNIFICATION METHOD WITH PRESERVATION OF PREFERENTIAL COMPONENTS
Akira Hirabayashi, Yamaguchi University, Japan; Laurent Condat, GSF National Research Center for Environment and Health, Germany

WA-P5.3: A NOVEL MULTI-STAGE MOTION VECTOR PROCESSING METHOD FOR MOTION COMPENSATED FRAME INTERPOLATION
Ai-Mei Huang, Truong Nguyen, University of California, San Diego, United States

WA-P5.4: A ROBUST ITERATIVE SUPER-RESOLUTION RECONSTRUCTION OF IMAGE SEQUENCES USING A LORENTZIAN BAYESIAN APPROACH WITH FAST AFFINE BLOCK-BASED REGISTRATION
Vorapoj Patanavijit, Assumption University, Thailand; Sarawut Tae-O-Sot, Naresuan University (Phayao Cambus), Thailand; Somchai Jitapunkul, Chulalongkorn University, Thailand

WA-P5.5: EDGE DIRECTION-BASED SIMPLE RESAMPLING ALGORITHM
Gwanggil Jeon, Joohyun Lee, Wonkyun Kim, Jechang Jeong, Hanyang University, Republic of Korea

WA-P5.6: LOCAL FEATURE EXTRACTION FOR IMAGE SUPER-RESOLUTION
Loïc Baboulaz, Pier Luigi Dragotti, Imperial College London, United Kingdom

WA-P5.7: A COUPLED FEATURE-FILTER CLUSTERING SCHEME FOR RESOLUTION SYNTHESIS
Toygar Akgun, Yucel Altunbasak, Georgia Institute of Technology, United States

WA-P5.8: CODING ARTIFACTS ROBUST RESOLUTION UP-CONVERSION
Ling Shao, Hao Hu, Gerard de Haan, Philips Research Laboratories, Netherlands

WA-P5.9: FAST GENERALIZED MOTION ESTIMATION AND SUPERRESOLUTION
Abhijit Sinha, Xiaolin Wu, McMaster University, Canada

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Kazuto Kimura, Takayuki Nagai, University of Electro-Communications, Japan; Hiroto Nagayoshi, Hiroshi Sako, Hitachi Ltd., Japan

WA-P5.11: PSF RECOVERY FROM EXAMPLES FOR BLIND SUPER-RESOLUTION
Isabelle Bégin, Frank Ferrie, McGill University, Canada

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Michel Sarkis, Christian Senft, Klaus Diepold, Munich University of Technology (TUM), Germany

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WA-P6.1: SAR AND SPOT IMAGE REGISTRATION BASED ON MUTUAL INFORMATION WITH CONTRAST MEASURE
Lixia Shu, Tieniu Tan, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

WA-P6.2: AUTOMATED SOLDER INSPECTION METHOD BY MEANS OF X-RAY OBLIQUE COMPUTED TOMOGRAPHY
Atsushi Teramoto, Takayuki Murakoshi, Nagoya Electric Works. Co., Ltd., Japan; Masatoshi Tsuzaka, Nagoya University, Japan; Hiroshi Fujita, Gifu University, Japan

WA-P6.3: ROBUST ROAD EXTRACTION FOR HIGH RESOLUTION SATELLITE IMAGES
Emmanuel Christophe, Jordi Inglada, CNES, France

WA-P6.4: RECOVERY OF SEISMIC EVENTS BY TIME-FREQUENCY PEAK FILTERING
Hongbo Lin, Yue Li, Baojun Yang, Jilin University, China

WA-P6.5: TARGET DETECTION THROUGH ROBUST MOTION SEGMENTATION AND TRACKING RESTRICTIONS IN AERIAL FLIR IMAGES

Carlos R. del-Blanco, Fernando Jaureguizar, Luis Salgado, Narciso García, Universidad Politécnica de Madrid, Spain

WA-P6.6: RELAXATION MATCHING FOR GEOREGISTRATION OF AERIAL AND SATELLITE IMAGERY

Caixia Wang, University of Maine, United States; Anthony Stefanidis, Peggy Agouris, George Mason University, United States

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Mona Sheikh, Richard Baraniuk, Rice University, United States

WA-P7.2: OPTIMUM DETECTION FOR SPREAD-SPECTRUM WATERMARKING THAT EMPLOYS SELF-MASKING

Wei Liu, Lina Dong, Wenjun Zeng, University of Missouri-Columbia, United States

WA-P7.3: ADDITIVE WATERMARK DETECTORS BASED ON A NEW HIERARCHICAL SPATIALLY ADAPTIVE IMAGE MODEL

Antonis Mairgiotis, Nikolaos Galatsanos, University of Ioannina, Greece; Yongyi Yang, Illinois Institute of Technology, United States

WA-P7.4: BLIND AND ROBUST WATERMARKING OF 3D MODELS: HOW TO WITHSTAND THE CROPPING ATTACK?

Patrice Rondao Alface, Benoit Macq, Université catholique de Louvain, Belgium; François Cayre, Laboratoire des Images et des Signaux, France

WA-P7.5: A FEATURE-BASED DIGITAL IMAGE WATERMARKING FOR COPYRIGHT PROTECTION AND CONTENT AUTHENTICATION

Jen-Sheng Tsai, Win-Bin Huang, Chao-Lieh Chen, Yau-Hwang Kuo, National Cheng Kung University, Taiwan

WA-P7.6: GEOMETRICALLY INVARIANT OBJECT-BASED WATERMARKING USING SIFT FEATURE

Viet Quoc Pham, Takashi Miyaki, Toshihiko Yamasaki, Kiyoharu Aizawa, University of Tokyo, Japan

WA-P7.7: GRAPHICAL MODELS FOR DESYNCHRONIZATION-RESILIENT WATERMARK DECODING

Shankar Sadasivam, Pierre Moulin, University of Illinois at Urbana-Champaign, United States; Ralf Koetter, Institute for Communications Engineering, Germany

WA-P7.8: A VIDEO WATERMARKING SCHEME RESISTANT TO GEOMETRIC TRANSFORMATIONS

Maher El Arbi, Chokri Ben Amar, REGIM, Tunisia; Henri Nicolas, LABRI, France

WA-P7.9: STATISTICAL ANALYSIS OF A LINEAR ALGEBRA ASYMMETRIC WATERMARKING SCHEME

Giulia Boato, Francesco G. B. De Natale, University of Trento, Italy; Claudio Fontanari, Politecnico di Torino, Italy; Fernando Perez-Gonzalez, University of Vigo, Spain

WA-P7.10: CAMCORDER CAPTURE ROBUST LOW-COMPLEXITY WATERMARKING OF MPEG-2 BIT-STREAMS

Mehmet Celik, Joop Talstra, Aweke Lemma, Stefan Katzenbeisser, Philips Research Europe, Netherlands

WA-P7.11: A VIDEO WATERMARKING BASED ON 3-D COMPLEX WAVELET

Jingwei Wang, Xinbo Gao, Juanjuan Zhong, Xidian University, China

WA-P8: Biomedical Imaging IV: Segmentation and Quantitative Analysis

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Shi Pengcheng, Hu Zhenghui, Hong Kong University of Science and Technology, Hong Kong SAR of China

WA-P8.2: A NOVEL APPROACH FOR AUTOMATIC FOLLOW-UP OF DETECTED LUNG NODULES

Ayman El-baz, University of Louisville, United States; Georgy Gimel'farb, University of Auckland, New Zealand; Robert Falk, Jewish Hospital, United States; Mohamed El-Ghar, University of Mansoura, Egypt

WA-P8.3: A NEW FRAMEWORK FOR FMRI DATA ANALYSIS: MODELING, IMAGE RESTORATION, AND ACTIVATION DETECTION

Jianing Wei, Ilya Pollak, Purdue University, United States

WA-P8.4: CRF-BASED SEGMENTATION OF HUMAN TEAR MENISCUS OBTAINED WITH OPTICAL COHERENCE TOMOGRAPHY

Gabriel Tsechpenakis, Jianhua Wang, University of Miami, United States

WA-P8.5: SEGMENTATION OF MEDICAL ULTRASOUND IMAGES USING ACTIVE CONTOURS

Oleg Michailovich, University of Waterloo, Canada; Allen Tannenbaum, Georgia Institute of Technology, United States

WA-P8.6: USING PARTICLE FILTER TO TRACK AND MODEL MICROTUBULE DYNAMICS

Koon Yin Kong, Georgia Institute of Technology, United States; Adam I. Marcus, Winship Cancer Institute, United States; Paraskevi Giannakakou, Weill Cornell Medical College of Cornell University, United States; May D. Wang, Georgia Institute of Technology, United States

WA-P8.7: BLOOD VESSEL SEGMENTATION FROM COLOR RETINAL IMAGES USING UNSUPERVISED TEXTURE CLASSIFICATION

Alauddin Bhuiyan, Baikunth Nath, Joselito Chua, Ramamohanarao Kotagiri, University of Melbourne, Australia

WA-P8.8: COMPUTER-AIDED GRADING OF NEUROBLASTIC DIFFERENTIATION: MULTI-RESOLUTION AND MULTI-CLASSIFIER APPROACH

Jun Kong, Olcay Sertel, The Ohio State University, United States; Hiroyuki Shimada, University of Southern California, United States; Kim Boyer, Joel Saltz, Metin Gurcan, The Ohio State University, United States

WA-P8.9: ECHOCARDIOGRAPHIC SIMULATION FOR VALIDATION OF AUTOMATED SEGMENTATION METHODS

Andrew Gilliam, Scott T. Acton, University of Virginia, United States

WA-P8.10: AUTOMATED ESTIMATION OF THE BIOPHYSICAL TARGET FOR RADIOTHERAPY TREATMENT PLANNING USING MULTIMODALITY IMAGE ANALYSIS

Issam El Naqa, Deshan Yang, Joseph Deasy, Washington University in St. Louis, United States

WA-P8.11: FAST TEMPORAL TRACKING AND 3D RECONSTRUCTION OF A SINGLE CORONARY VESSEL

Ifeoma Nwogu, Liana Lorigo, State University of New York at Buffalo, United States

WA-P8.12: SEGMENTATION OF RETINAL VESSELS USING NONLINEAR PROJECTIONS

Yongping Zhang, Wynne Hsu, Mong Li Lee, National University of Singapore, Singapore

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WP-L1.1: A NOVEL IMAGE RE-INDEXING BY SELF ORGANIZING MOTOR MAPS

Sebastiano Battiato, Francesco Rundo, Filippo Stanco, University of Catania, Italy

WP-L1.2: ON CLUSTER VALIDITY INDEXES IN FUZZY AND HARD CLUSTERING ALGORITHMS FOR IMAGE SEGMENTATION

Moumen El-Melegy, Assiut University, Egypt; Ennumeri Zanaty, Taif University, Saudi Arabia; Walaa Abd-Elhafiez, Sohag University, Egypt; Aly Farag, University of Louisville, United States

WP-L1.3: ROBUST ESTIMATION OF KNEE KINEMATICS AFTER TOTAL KNEE ARTHROPLASTY WITH EVOLUTIONAL COMPUTING APPROACH

Syoji Kobashi, University of Hyogo, Japan; Nao Shibanuma, Kobe Kaisei Hospital, Japan; Katsuya Kondo, University of Hyogo, Japan; Masahiro Kurosaka, Kobe University, Japan; Yutaka Hata, University of Hyogo, Japan

WP-L1.4: COLOR IMAGE RETRIEVAL USING FUZZY SIMILARITY MEASURES AND FUZZY PARTITIONS

M. Nachtegael, Ghent University, Belgium; D. Van der Weken, VRT - Research and Innovation, Belgium; V. De Witte, S. Schulte, T. Mélange, E. E. Kerre, Ghent University, Belgium

WP-L1.5: MULTICHANNEL IMAGE DECOMPOSITION BY USING PSEUDO-LINEAR HAAR WAVELETS

Barnabas Bede, University of Texas Pan American, United States; Hajime Nobuhara, University of Tsukuba, Japan; Emil Schwab, University of Texas at El Paso, United States

WP-L1.6: MULTI-LEVEL DISCRETE COSINE TRANSFORM FOR CONTENT-BASED IMAGE RETRIEVAL BY SUPPORT VECTOR MACHINES

Yong Li, Xiujuan Chen, Xuezheng Fu, Saeid Belkasim, Georgia State University, United States

WP-L1.7: A GREEDY PERFORMANCE DRIVEN ALGORITHM FOR DECISION FUSION LEARNING

Dhiraj Joshi, Penn State University, United States; Milind Naphade, Apostol Natsev, IBM T. J. Watson Research Center, United States

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David Hammond, Eero Simoncelli, New York University, United States

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Nai-Xiang Lian, Vitali Zagorodnov, Yap-Peng Tan, Nanyang Technological University, Singapore

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Nilanjan Ray, Baidya Saha, University of Alberta, Canada

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Xiang Ma, Dan Schonfeld, Ashfaq Khokhar, University of Illinois at Chicago, United States

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Luis Augusto Consularo, UNIMEP - Methodist University of Piracicaba, Brazil; Roberto M. Cesar Jr., University of São Paulo, Brazil; Isabelle Bloch, Ecole Nationale Supérieure des Télécommunications, France

WP-L2.5: SEGMENTATION AND DETECTION OF NUCLEI IN SILVER STAINED CELL SPECIMENS FOR EARLY CANCER DIAGNOSIS

Andre Bell, Gerlind Herberich, Dietrich Meyer-Ebrecht, RWTH Aachen University, Germany; Alfred Böcking, Heinrich-Heine-University Düsseldorf, Germany; Til Aach, RWTH Aachen University, Germany

WP-L2.6: IMPROVED IMAGE SEGMENTATION USING PHOTONIC MIXER DEVICES

Frank Wallhoff, Martin Russ, Gerhard Rigoll, Technische Universität München, Germany; Johann Goebel, Hermann Diehl, EADS, Germany

WP-L2.7: IMAGE MATTING IN THE FRAMEWORK OF QUANTIFICATION IV

Takumi Kobayashi, Tadaaki Hosaka, Nobuyuki Otsu, National Institute of Advanced Industrial Science and Technology, Japan

WP-L2.8: A VARIATIONAL APPROACH TO EXPLOIT PRIOR INFORMATION IN OBJECT-BACKGROUND SEGREGATION: APPLICATION TO RETINAL IMAGES

Luca Bertelli, Jiyun Byun, B. S. Manjunath, University of California, Santa Barbara, United States

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Jonathan Gan, David Taubman, University of New South Wales, Australia

WP-L3.2: LEAST-SQUARES BASED SWITCHED ADAPTIVE PREDICTORS FOR LOSSLESS VIDEO CODING

Anil Kumar Tiwari, The L. N. Mittal Institute of Information Technology, India; R. V. Raja Kumar, Indian Institute of Technology, Kharagpur, India

WP-L3.3: HYBRID RESOLUTION SWITCHING METHOD FOR LOW BIT RATE VIDEO CODING
Sang Heon Lee, Sang Hwa Lee, Nam Ik Cho, Seoul National University, Republic of Korea

WP-L3.4: MULTIPLE DESCRIPTION VIDEO TRANSCODING
Ali El Essaili, Shoaib Khan, Technische Universität München, Germany; Wolfgang Kellerer, DoCoMo Euro-Labs, Germany; Eckehard Steinbach, Technische Universität München, Germany

WP-L3.5: LOW-DRIFT FIXED-POINT 8X8 IDCT APPROXIMATION WITH 8-BIT TRANSFORM FACTORS
Yuriy Reznik, De Hsu, Prasanjit Panda, Brijesh Pillai, QUALCOMM Incorporated, United States

WP-L3.6: GEOMETRY-ADAPTIVE BLOCK PARTITIONING FOR INTRA PREDICTION IN IMAGE & VIDEO CODING
Congxia Dai, West Virginia University, United States; Oscar Divorra Escoda, Peng Yin, Thomson, United States; Xin Li, West Virginia University, United States; Cristina Gomila, Thomson, United States

WP-L3.7: A CONTEXT MODELING SCHEME FOR CODING OF TEXTURE REFINEMENT INFORMATION
Heiner Kirchhoffer, Detlev Marpe, Thomas Wiegand, Fraunhofer Institute for Telecommunications - Heinrich Hertz Institute, Germany

WP-L3.8: EXTENDED TEXTURE PREDICTION FOR H.264/AVC INTRA CODING
Johannes Ballé, Mathias Wien, RWTH Aachen University, Germany

WP-L4: Security VI

WP-L4.1: NOISE FEATURES FOR IMAGE TAMPERING DETECTION AND STEGANALYSIS
Hongmei Gou, Ashwin Swaminathan, Min Wu, University of Maryland, United States

WP-L4.2: IMAGE TAMPER DETECTION USING MATHEMATICAL MORPHOLOGY
Mirei Kihara, Masaaki Fujiyoshi, Qing Tao Wan, Hitoshi Kiya, Tokyo Metropolitan University, Japan

WP-L4.3: TRANSFORM CODER CLASSIFICATION FOR DIGITAL IMAGE FORENSICS
Steven Tjoa, W. Sabrina Lin, K. J. Ray Liu, University of Maryland, United States

WP-L4.4: MULTI-USER COLLUSION BEHAVIOR FORENSICS: GAME THEORETIC FORMULATION OF FAIRNESS DYNAMICS
Wan-Yi Sabrina Lin, University of Maryland, College Park, United States; Hong Vicky Zhao, University of Alberta, Canada; K.J.Ray Liu, University of Maryland, College Park, United States

WP-L4.5: RE-QUANTIZATION BASED SEMI-FRAGILE AUTHENTICATION FOR GENERAL UNIFORM QUANTIZER
Bo Shen, Ton Kalker, Hewlett Packard Laboratories, United States

WP-L4.6: ROBUST HASH FOR DETECTING AND LOCALIZING IMAGE TAMPERING
Sujoy Roy, Qibin Sun, Institute for Infocomm Research, Singapore

WP-L4.7: STREAM AUTHENTICATION BASED ON GENERLIZED BUTTERFLY GRAPH
Zhishou Zhang, Institute for Infocomm Research, Singapore; John Apostolopoulos, Hewlett Packard Laboratories, United States; Qibin Sun, Institute for Infocomm Research, Singapore; Susie Wee, Hewlett Packard Laboratories, United States; Wai-Choong Wong, National University of Singapore, Singapore

WP-L4.8: IDENTIFYING COMMON SOURCE DIGITAL CAMERA FROM IMAGE PAIRS
Miroslav Goljan, Mo Chen, Jessica Fridrich, SUNY Binghamton, United States

WP-L5: Motion Detection and Estimation III

WP-L5.1: ON THE DETECTION OF TEMPORAL FIELD ORDER IN INTERLACED VIDEO DATA
David Baylon, Motorola, Inc., United States

WP-L5.2: DOMINANT SETS-BASED ACTION RECOGNITION USING IMAGE SEQUENCE MATCHING
Qingdi Wei, Weiming Hu, Xiaoqin Zhang, Guan Luo, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

WP-L5.3: EKF BASED POSE ESTIMATION USING TWO BACK-TO-BACK STEREO PAIRS
Mohammad Ehab Ragab, Kin Hong Wong, Jun Zhou Chen, Michael Ming-Yuen Chang, The Chinese University of Hong Kong, Hong Kong SAR of China

WP-L5.4: A MULTI-LAYER MRF MODEL FOR OBJECT-MOTION DETECTION IN UNREGISTERED AIRBORNE IMAGE-PAIRS
Csaba Benedek, Pázmány Péter Catholic University, Hungary; Tamás Szirányi, Computer and Automation Research Institute, Hungary; Zoltan Kato, University of Szeged, Hungary; Josiane Zerubia, INRIA Sophia Antipolis, France

WP-L5.5: TRACKING BY COMBINING PHOTOMETRIC NORMALIZATION AND COLOR INVARIANTS ACCORDING TO THEIR RELEVANCE.
Michèle Gouiffès, IEF / University of Orsay, France

WP-L5.6: MUFESAC: LEARNING WHEN TO USE WHICH FEATURE DETECTOR
Sreenivas Sukumar, David Page, Hamparsum Bozdogan, Andreas Koschan, Mongi Abidi, University of Tennessee, Knoxville, United States

WP-L5.7: DIRECT MOTION ESTIMATION IN THE RADON TRANSFORM DOMAIN USING MATCH-PROFILE BACKPROJECTIONS
Chris Bartels, Technische Universiteit Eindhoven, Netherlands; Gerard de Haan, Philips Research, Netherlands

WP-L5.8: ACCURATE DYNAMIC SCENE MODEL FOR MOVING OBJECT DETECTION
Hong Yang, Yihua Tan, Jinwen Tian, Jian Liu, Huazhong University of Science and Technology, China

WP-L6: Object Recognition II

WP-L6.1: MULTISCALE RANDOM PROJECTIONS FOR COMPRESSIVE CLASSIFICATION
Marco Duarte, Mark Davenport, Rice University, United States; Michael Wakin, California Institute of Technology, United States; Jason Laska, Dharmpal Takhar, Kevin Kelly, Richard Baraniuk, Rice University, United States

WP-L6.2: FAST COMPUTATION OF ZERNIKE MOMENTS FOR RICE SORTING SYSTEM
Chong-Yaw Wee, Raveendran Paramesran, University of Malaya, Malaysia; Fumiaki Takeda, Kochi University of Technology, Japan

WP-L6.3: A SHAPE DETECTION METHOD BASED ON THE RADIAL SYMMETRY NATURE AND DIRECTION-DISCRIMINATED VOTING
Gang Wu, Panasonic R&D Center of China, China; Weijie Liu, Panasonic AV Core Technology Center, Japan; Xiaohui Xie, Qiang Wei, Panasonic R&D Center of China, China

WP-L6.4: RECOGNIZING 3D OBJECTS USING RAY-TRIANGLE INTERSECTION DISTANCES
Georgios Kordelas, Petros Daras, Centre for Research and Technology Hellas, Greece

WP-L6.5: IMAGE RECOGNITION FOR MOBILE APPLICATIONS
Jimmy Addison Lee, Kin Choong Yow, Nanyang Technological University, Singapore

WP-L6.6: PROPAGATING IMAGE-LEVEL PART STATISTICS TO ENHANCE OBJECT DETECTION
Sheng Gao, Joo-hwee Lim, Qibin Sun, Institute for Infocomm Research, Singapore

WP-L6.7: NIGHTTIME PEDESTRIAN DETECTION WITH NEAR INFRARED USING CASCADED CLASSIFIERS
Jianfei Dong, Junfeng Ge, Yupin Luo, Tsinghua University, China

WP-L6.8: DETECTION OF THE GROOVE POSITION IN PHONOGRAPHIC IMAGES
Ottar Johnsen, College of Engineering and Architecture, Switzerland; Sylvain Stotzer, College of Engineering and Architecture of Fribourg, Switzerland; Frederic Bapst, College of Engineering and Architecture, Switzerland; Rolf Ingold, University of Fribourg, Switzerland

WP-P1: Implementation of Image and Video Processing Systems II / Biomedical Imaging

WP-P1.1: SYNCHRONIZATION OF PROCESSED AUDIO-VIDEO SIGNALS USING TIME-STAMPS
Mohamed El-Helaly, Aishy Amer, Concordia University, Canada

WP-P1.2: RASCOR: REALTIME ASSOCIATIVE STEREO CORRESPONDENCE
Vikram Simhadri, Premanand Chandramani, Yusuf Ozturk, San Diego State University, United States

WP-P1.3: DRIVER DISTRACTION DETECTION WITH A CAMERA VISION SYSTEM
Matti Kutila, Maria Jokela, VTT Technical Research Centre of Finland, Finland; Gustav Markkula, Volvo Technology Corporation, Sweden; Maria Romera Rué, Centro Técnico SEAT, S.A., Spain

WP-P1.4: DSP IMPLEMENTATION OF DEBLOCKING FILTER FOR AVS
Zhigang Yang, Harbin Institute of Technology, China; Wen Gao, Chinese Academy of Sciences, China; Yan Liu, Debin Zhao, Harbin Institute of Technology, China

WP-P1.5: DESIGN AND IMPLEMENTATION OF A REAL-TIME GLOBAL TONE MAPPING PROCESSOR FOR HIGH DYNAMIC RANGE VIDEO
Tsun Hsien Wang, Wei Su Wong, National Tsing Hua University, Taiwan; Fang Chu Cheng, Industrial Technology Research Institute, Taiwan; Ching Te Chiu, National Tsing Hua University, Taiwan

WP-P1.6: A HIGH THROUGHPUT ENCODER FOR HIGH DYNAMIC RANGE IMAGES
Firas Hassan, Joan Carletta, University of Akron, United States

WP-P1.7: TWO LEVEL COST-QUALITY OPTIMIZATION OF 9-7 LIFTING-BASED DISCRETE WAVELET TRANSFORM
Alireza Aminlou, Fatemeh Refan, Mahmoud Reza Hashemi, Omid Fatemi, University of Tehran, Iran

WP-P1.8: KULLBACK-LEIBLER DISTANCE OPTIMIZATION FOR NON-RIGID REGISTRATION OF ECHO-PLANAR TO STRUCTURAL MAGNETIC RESONANCE BRAIN IMAGES
Ali Gholipour, Nasser Kehtarnavaz, University of Texas at Dallas, United States; Richard Briggs, Kaundinya Gopinath, University of Texas Southwestern Medical Center, United States

WP-P1.9: THE CORRECTION OF EPI-INDUCED GEOMETRIC DISTORTIONS AND THEIR EVALUATION
Guozhi Tao, Renjie He, Aziz Poonawalla, Ponnada Narayana, University of Texas Medical School at Houston, United States

WP-P1.10: A PHASE-BASED IMAGE REGISTRATION ALGORITHM FOR DENTAL RADIOGRAPH IDENTIFICATION
Akira Nikaido, Koichi Ito, Takafumi Aoki, Tohoku University, Japan; Eiko Kosuge, Ryota Kawamata, Kanagawa Dental College, Japan

WP-P1.11: MULTISCALE VARIANCE-STABILIZING TRANSFORM FOR MIXED-POISSON-GAUSSIAN PROCESSES AND ITS APPLICATIONS IN BIOIMAGING
Bo Zhang, URA CNRS 2582, France; Jalal Fadili, GREYC UMR CNRS 6072, France; Jean-Luc Starck, DAPNIA/SEDI-SAP CEA-Saclay, France; Jean-Christophe Olivo-Marin, URA CNRS 2582, France

WP-P1.12: A GLOBAL-TO-LOCAL 2D SHAPE REGISTRATION IN IMPLICIT SPACES USING LEVEL SETS
Rachid Fahmi, Aly A. Farag, CVIP Lab., University of Louisville, United States

WP-P2: Biomedical Imaging V: Molecular & Cellular Bioimaging / Segmentation

WP-P2.1: 3D FLUORESCENT SPOTS DETECTION IN LINE-SCANNING CONFOCAL MICROSCOPY
Elodie Dusch, Institut Pasteur Korea, Republic of Korea; Nicole Vincent, Université René Descartes Paris 5, France; Auguste Genovesio, Institut Pasteur Korea, Republic of Korea

WP-P2.2: EFFICIENT ACQUISITION AND LEARNING OF FLUORESCENCE MICROSCOPE DATA MODELS
Charles Jackson, Robert Murphy, Jelena Kovacevic, Carnegie Mellon University, United States

WP-P2.3: A STATISTICAL APPROACH FOR INTENSITY LOSS COMPENSATION OF CONFOCAL MICROSCOPY IMAGES
Sowmya Gopinath, Ninad Thakoor, Jean Gao, University of Texas at Arlington, United States; Kate Luby-Phelps, University of Texas Southwestern Medical Center, United States

WP-P2.4: CA2+ SPARKS DETECTION AND CLASSIFICATION USING GAUSSIAN-MEXICAN HAT WAVELET
Zhi Zhou, Yingzi Du, Indiana University-Purdue University Indianapolis, United States; Gerorge Rodney, Martin Schneider, University of Maryland School of Medicine, United States

WP-P2.5: JOINT LOCALIZATION AND PARAMETER ESTIMATION FOR LOCALIZED CALCIUM RELEASE EVENTS IN VIDEO MICROSCOPY
Benjamin Olding, Patrick J. Wolfe, Harvard University, United States

WP-P2.6: BREAST DELINEATION USING ACTIVE CONTOURS TO FACILITATE COREGISTRATION OF SERIAL MRI STUDIES FOR THERAPY RESPONSE EVALUATION
Rupa Chitttineni, Min-Ying Su, Orhan Nalcioglu, University of California, Irvine, United States

WP-P2.7: DNA MICROARRAY IMAGE INTENSITY EXTRACTION USING EIGENSPOTS
Sotirios Tsaftaris, Ramandeep Ahuja, Derek Shiell, Aggelos Katsaggelos, Northwestern University, United States

WP-P2.8: EFFECTIVE DENOISING OF 2D GEL PROTEOMICS IMAGES USING CONTOURLETS
P. Tsakanikas, I. Manolakos, University of Athens, Greece

WP-P2.9: SEGMENTING MICROARRAY IMAGE SPOTS USING AN ACTIVE CONTOUR APPROACH
Jinn Ho, Wen-Liang Hwang, Academia Sinica, Taiwan

WP-P2.10: AUTOMATIC SEGMENTATION OF SKIN LESION IMAGES USING EVOLUTIONARY STRATEGY
Ning Situ, Xiaojing Yuan, George Zouridakis, University of Houston, United States; Nizar Mullani, Translite LLC, United States

WP-P2.11: BIOMEDICAL IMAGE SEGMENTATION BASED ON SHAPE STABILITY
Zhong Li, Kayvan Najarian, University of North Carolina at Charlotte, United States

WP-P2.12: TRACING CURVILINEAR STRUCTURES IN LIVE CELL IMAGES
Mehmet Emre Sargin, Alphan Altinok, Kenneth Rose, B. S. Manjunath, University of California, Santa Barbara, United States

WP-P3: Video Object Segmentation and Tracking III / Video Shot/Scene Segmentation

WP-P3.1: HIERARCHICAL FEATURE FUSION FOR VISUAL TRACKING
Alexandros Makris, Dimitrios Kosmopoulos, Stavros Perantonis, NCSR Demokritos, Greece; Sergios Theodoridis, University of Athens, Greece

WP-P3.2: INCORPORATION OF TEXTURE INFORMATION FOR JOINT SPATIO-TEMPORAL PROBABILISTIC VIDEO OBJECT SEGMENTATION
Rakib Ahmed, Gour Karmakar, Monash University, Australia; Laurence Dooley, Currently not affiliated, Australia

WP-P3.3: DETECTION OF WIPES AND DIGITAL VIDEO EFFECTS BASED ON A PATTERN-INDEPENDENT MODEL OF IMAGE BOUNDARY LINE CHARACTERISTICS
Kota Iwamoto, Kyoji Hirata, NEC Corporation, Japan

WP-P3.4: MOTION-BASED VIDEO OBJECT TRACKING IN THE COMPRESSED DOMAIN
Mark Ritch, Nishan Canagarajah, University of Bristol, United Kingdom

WP-P3.5: A GENERIC PROCESS CHAIN TO EXTRACT KEY-OBJECTS FROM VIDEO SHOTS
Jérémy Huart, Pascal Bertolino, INPG - GIPSA Lab, France

WP-P3.6: OUTER-LAYER BASED TRACKING USING ENTROPY AS A SIMILARITY MEASURE
Vincent Garcia, Sylvain Boltz, Eric Debreuve, Michel Barlaud, I3S Laboratory, France

WP-P3.7: A HIGH DIMENSIONAL FRAMEWORK FOR JOINT COLOR-SPATIAL SEGMENTATION
Sylvain Boltz, Eric Debreuve, Michel Barlaud, I3S Laboratory, France

WP-P3.8: FAST TIME-SPACE TRACKING OF SMOOTHLY MOVING FINE STRUCTURES IN IMAGE SEQUENCES
David Tschumperlé, CNRS, France; Yohan Bentolila, Jean Martinot, IFP, France; Jalal Fadili, ENSICAEN, France

WP-P3.9: BACKGROUND MODELING BASED ON SUBPIXEL EDGES
Vishal Jain, Benjamin Kimia, Joseph Mundy, Brown University, United States

WP-P3.10: EPIPOLAR CURVE TRACKING IN 3-D
Matthew Leotta, Joseph Mundy, Brown University, United States

WP-P3.11: TOWARD AN OPTIMAL SOLUTION FOR MULTITARGET TRACKING
Nezamoddin N. Kachouie, Paul Fieguth, University of Waterloo, Canada

WP-P3.12: A NOVEL VIDEO PARSING ALGORITHM UTILIZING THE PLEASURE-AROUSAL-DOMINANCE EMOTIONAL INFORMATION
Sutjipto Arifin, Peter Y.K. Cheung, Imperial College London, United Kingdom

WP-P4: Image and Video Storage and Retrieval IV

WP-P4.1: SEARCHING HUMAN BEHAVIORS USING SPATIAL-TEMPORAL WORDS
Huazhong Ning, Yuxiao Hu, Thomas Huang, University of Illinois at Urbana-Champaign, United States

WP-P4.2: WAVELET-BASED TEXTURE RETRIEVAL USING INDEPENDENT COMPONENT ANALYSIS
Rui Zhang, Xiao-Ping Zhang, Ling Guan, Ryerson University, Canada

WP-P4.3: DUAL-LAYER VISUAL VOCABULARY TREE HYPOTHESES FOR OBJECT RECOGNITION
Sandra Ober, Martin Winter, Clemens Arth, Horst Bischof, Graz University of Technology, Austria

WP-P4.4: DETECTING CONTOUR SALIENCES USING TENSOR SCALE
Fernanda A. Andaló, Paulo A. V. Miranda, Ricardo da S. Torres, Alexandre X. Falcão, State University of Campinas, Brazil

WP-P4.5: INFORMATION-BASED COLOR FEATURE REPRESENTATION FOR IMAGE CLASSIFICATION
Shilin Wang, Shanghai Jiao Tong University, China; Alan Wee-Chung Liew, Griffith University, Australia

WP-P4.6: VIEW-BASED WEB PAGE RETRIEVAL USING INTERACTIVE SKETCH QUERY
Yasuyuki Watai, Toshihiko Yamasaki, Kiyoharu Aizawa, University of Tokyo, Japan

WP-P4.7: SKELETON-BASED TORNADO HOOK ECHO DETECTION
Hongkai Wang, Robert Mercer, John Barron, University of Western Ontario, Canada; Paul Joe, Meteorological Service of Canada, Canada

WP-P4.8: DOMINANT COLOR STRUCTURE DESCRIPTOR FOR IMAGE RETRIEVAL
Ka-Man Wong, Lai-Man Po, Kwok-Wai Cheung, City University of Hong Kong, Hong Kong SAR of China

WP-P4.9: FAITHFUL SHAPE REPRESENTATION FOR 2D GAUSSIAN MIXTURES
Mireille Boutin, Mary Comer, Purdue University, United States

WP-P4.10: A NEW DESCRIPTOR FOR 2D DEPTH IMAGE INDEXING AND 3D MODEL RETRIEVAL
Mohamed Chaouch, Anne Verroust-Blondet, Institut National de Recherche en Informatique et Automatique (INRIA), France

WP-P4.11: A KNOWLEDGE STRUCTURING TECHNIQUE FOR IMAGE CLASSIFICATION
Le Dong, Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

WP-P4.12: ADAPTIVE CLUSTER-DISTANCE BOUNDING FOR NEAREST NEIGHBOR SEARCH IN IMAGE DATABASES
Sharadh Ramaswamy, Kenneth Rose, University of California, Santa Barbara, United States

WP-P5: Image and Video Modeling III / Distributed Coding

WP-P5.1: A WAVELET-BASED NOISE-AWARE METHOD FOR FUSING NOISY IMAGERY
Xiaohui Yuan, Bill P. Buckles, University of North Texas, United States

WP-P5.2: FINDING FAMILIAR OBJECTS AND THEIR DEPTH FROM A SINGLE IMAGE
Hwann-Tzong Chen, National Tsing Hua University, Taiwan; Tyng-Luh Liu, Academia Sinica, Taiwan

WP-P5.3: DISTANCE MEASUREMENT IN PANORAMA
Zhongding Jiang, Nan Jiang, Yijie Wang, Binyu Zang, Fudan University, China

WP-P5.4: UNIVERSAL CAMERA CALIBRATION WITH AUTOMATIC DISTORTION MODEL SELECTION
Vitaliy Orekhov, Besma Abidi, University of Tennessee, United States; Christopher Broaddus, Sarnoff Corporation, United States; Mongi Abidi, University of Tennessee, United States

WP-P5.5: GPS, GIS AND VIDEO REGISTRATION FOR BUILDING RECONSTRUCTION
Gaël Sourimant, IRISA / INRIA, France; Luce Morin, Kadi Bouatouch, IRISA / Université Rennes 1, France

WP-P5.6: VIDEO MODELING BY SPATIO-TEMPORAL RESAMPLING AND BAYESIAN FUSION
Yunfei Zheng, Xin Li, West Virginia University, United States

WP-P5.7: FUSION METHODS FOR SIDE INFORMATION GENERATION IN MULTI-VIEW DISTRIBUTED VIDEO CODING SYSTEMS
Pierre Ferre, Dimitris Agrafiotis, David Bull, University of Bristol, United Kingdom

WP-P5.8: MOTION-BASED SIDE-INFORMATION GENERATION FOR A SCALABLE WYNER-ZIV VIDEO CODER
Bruno Macchiavello, Ricardo L. de Queiroz, Universidade de Brasilia, Brazil; Debargha Mukherjee, Hewlett Packard Laboratories, United States

WP-P5.9: DISTRIBUTED VIDEO CODING WITH SHARED ENCODER/DECODER COMPLEXITY
Tom Clerckx, Adrian Munteanu, Jan Cornelis, Peter Schelkens, Vrije Universiteit Brussel, Belgium

WP-P5.10: DISTRIBUTED COMPRESSION OF MULTI-VIEW IMAGES USING A GEOMETRICAL CODING APPROACH
Nicolas Gehrig, Pier Luigi Dragotti, Imperial College London, United Kingdom

WP-P5.11: DYNAMIC KEY BLOCK DECISION WITH SPATIO-TEMPORAL ANALYSIS FOR WYNER-ZIV VIDEO CODING
Dung-Chan Tsai, Chang-Ming Lee, Wen-Nung Lie, National Chung Cheng University, Taiwan

WP-P5.12: GRAPH THEORETICAL OPTIMIZATION OF PREDICTION STRUCTURE IN MULTIVIEW VIDEO CODING
Je-Won Kang, Seoul National University, Republic of Korea; Suk-Hee Cho, Nam-Ho Hur, ETRI, Republic of Korea; Chang-Su Kim, Korea University, Republic of Korea; Sang-Uk Lee, Seoul National University, Republic of Korea

WP-P6: Image Coding IV

WP-P6.1: AN EFFICIENT LIFTING STRUCTURE OF BIORTHOGONAL FILTER BANKS FOR LOSSLESS IMAGE CODING
Shunsuke Iwamura, Yuichi Tanaka, Masaaki Ikehara, Keio University, Japan

WP-P6.2: OPTIMAL PRUNING QUAD-TREE BLOCK-BASED BINARY SHAPE CODING
Zhenliang Shen, Michael Frater, John Arnold, University of New South Wales, Australia

WP-P6.3: AN EFFICIENT SHAPE REPRESENTATION AND DESCRIPTION TECHNIQUE
Yasser Ebrahim, Maher Ahmed, Siu-Cheung Chau, Wilfrid Laurier University, Canada; Wegdan Abdelsalam, University of Guelph, Canada

WP-P6.4: BLOCK BASED EXTRA/INTER-POLATING PREDICTION FOR INTRA CODING
Taichiro Shiodera, Akiyuki Tanizawa, Takeshi Chujoh, Toshiba Corporation, Japan

WP-P6.5: ANALYSIS OF THE DECODING-COMPLEXITY OF COMPRESSED IMAGE-BASED SCENE REPRESENTATIONS
Ingo Bauermann, Eckehard Steinbach, Technische Universität München, Germany

WP-P6.6: COMPRESSION OPTIMIZED TRACING OF DIGITAL CURVES USING GRAPH THEORY
Andras Hajdu, University of Debrecen, Hungary; Ioannis Pitas, University of Thessaloniki, Greece

WP-P6.7: FAST PRINCIPAL COMPONENT ANALYSIS USING EIGENSPACE MERGING
Liang Liu, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China; Yunhong Wang, Beihang University, China; Qian Wang, Tieniu Tan, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

WP-P6.8: CODING GAIN AND TUNING FOR PARAMETERIZED VISUAL QUALITY METRICS
Stijn de Waele, Michael Verberne, Philips Electronics, Netherlands

WP-P6.9: LOW POWER LOOKUP TABLES FOR HUFFMAN DECODING
Jason McNeely, Magdy Bayoumi, University of Louisiana at Lafayette, United States

WP-P6.10: ENCODING PARAMETER ESTIMATION FOR RDTC OPTIMIZED COMPRESSION AND STREAMING OF IMAGE-BASED SCENE REPRESENTATIONS
Ingo Bauermann, Eckehard Steinbach, Technische Universität München, Germany

WP-P6.11: A NEW SPATIAL ACTIVITY METRIC FOR FILM CONTENTS
Xiaoan Lu, Jiefu Zhai, Cristina Gomila, Thomson Inc., United States

WP-P6.12: BUFFER CONSTRAINED PROACTIVE DYNAMIC VOLTAGE SCALING FOR VIDEO DECODING SYSTEMS
Emrah Akyol, Mihaela van der Schaar, University of California, Los Angeles, United States

WP-P7: Image & Video Communication III

WP-P7.1: A SIMPLIFIED DUAL-BITSTREAM MPEG VIDEO STREAMING SYSTEM WITH VCR FUNCTIONALITIES
Tak-Piu Ip, Yui-Lam Chan, Chang-Hong Fu, Wan-Chi Siu, The Hong Kong Polytechnic University, Hong Kong SAR of China

WP-P7.2: CONDITIONAL ACCESS TO H.264/AVC VIDEO BY MEANS OF REDUNDANT SLICES
Marco Grangetto, Enrico Magli, Gabriella Olmo, Politecnico di Torino, Italy

WP-P7.3: ADAPTIVE STREAMING OF SCALABLE STEREOSCOPIC VIDEO OVER DCCP
Nukhet Ozbek, Ege University, Turkey; Burak Gorkemli, A. Murat Tekalp, Koç University, Turkey; E. Turhan Tunali, Ege University, Turkey

WP-P7.4: ANALYSIS OF IEEE 802.11N-LIKE TRANSMISSION TECHNIQUES WITH AND WITHOUT PRIOR CSI FOR VIDEO APPLICATIONS
Milos Tesanovic, David Bull, Angela Doufexi, Andrew Nix, University of Bristol, United Kingdom

WP-P7.5: DISTRIBUTED RATE-DISTORTION OPTIMIZATION FOR RATELESS CODED SCALABLE VIDEO IN MOBILE AD HOC NETWORKS
Thomas Schierl, Fraunhofer HHI, Germany; Stian Johansen, Norwegian University of Science and Technology (NTNU), Norway; Cornelius Hellge, Fraunhofer HHI, Germany; Thomas Stockhammer, Nomor Research GmbH, Germany; Thomas Wiegand, Fraunhofer HHI, Germany

WP-P7.6: DISTRIBUTED RATE ALLOCATION AND PERFORMANCE OPTIMIZATION FOR VIDEO COMMUNICATION OVER MESH NETWORKS
Bo Wang, Zhihai He, University of Missouri-Columbia, United States; Yu Sun, University of Central Arkansas, United States

WP-P7.7: DESIGN OF ACTIVE SET TOP BOX IN A WIRELESS NETWORK FOR SCALABLE STREAMING SERVICES
Heung ki Lee, Varrian Hall, Texas A&M University, United States; Ki Hwan Yum, University of Texas San Antonio, United States; Kyoung Ill Kim, Electronics and Telecommunications Research Institute, Republic of Korea; Eun Jung Kim, Texas A&M University, United States

WP-P7.8: FINE GRAIN ADAPTIVE FEC (FGA-FEC) OVER WIRELESS NETWORKS
Yufeng Shan, John W. Woods, Shivkumar Kalyanaraman, Rensselaer Polytechnic Institute, United States

WP-P7.9: MULTIPLE DESCRIPTION IMAGE CODING WITH PREDICTION COMPENSATION
Guoqian Sun, Upul Samarawickrama, Jie Liang, Simon Fraser University, Canada; Chengjie Tu, Microsoft Corporation, United States; Trac Tran, The Johns Hopkins University, United States

WP-P7.10: OPTIMAL JOINT SOURCE-CHANNEL CODING USING UNEQUAL ERROR PROTECTION FOR THE SCALABLE EXTENSION OF H.264/MPEG-4 AVC
Maryse Stoufs, Adrian Munteanu, Peter Schelkens, Jan Cornelis, Vrije Universiteit Brussel, Belgium

WP-P7.11: ERROR ROBUSTNESS SCHEME FOR SCALABLE VIDEO BASED ON THE CONCATENATION OF LDPC AND TURBO CODES
Naeem Ramzan, Shuai Wan, Ebroul Izquierdo, Queen Mary, University of London, United Kingdom

WP-P7.12: TWO-WAY VIDEO COMMUNICATIONS BASED ON NETWORK CODING
Vladimir Stankovic, Lina Fagoonee, Lancaster University, United Kingdom; Abdi Moinian, ST Microelectronics Ltd, United Kingdom; Samel Cheng, University of Oklahoma, United States

WP-P8: Stereoscopic and 3D Processing VI

WP-P8.1: DESIGN OF A MONOCHROMATIC PATTERN FOR A ROBUST STRUCTURED LIGHT CODING

Chadi Albitar, Pierre Graebling, Christophe Doignon, Laboratoire des Sciences de l'Image, de l'Informatique et de la Télédétection, France

WP-P8.2: AUTOMATICALLY COMPUTED MARKERS FOR THE 3D WATERSHED SEGMENTATION

Sébastien Delest, Romuald Boné, Hubert Cardot, Université François Rabelais de Tours, France

WP-P8.3: 3D PROTEIN CLASSIFICATION USING TOPOLOGICAL, GEOMETRICAL AND BIOLOGICAL INFORMATION

Vassilis Tsatsaias, Aristotle University of Thessaloniki, Greece; Petros Daras, Michael Strintzis, Centre for Research and Technology Hellas, Greece

WP-P8.4: SOUND FROM GRAMOPHONE RECORD GROOVE SURFACE ORIENTATION

Baozhong Tian, John Barron, University of Western Ontario, Canada

WP-P8.5: EPIPOLAR SPACES AND OPTIMAL SAMPLING STRATEGIES

James Monaco, Alan Bovik, Lawrence Cormack, University of Texas, United States

WP-P8.6: EPIPOLAR SPACES FOR ACTIVE BINOCULAR VISION SYSTEMS

James Monaco, Alan Bovik, Lawrence Cormack, University of Texas, United States

WP-P8.7: REGISTRATION AND MATCHING OF PERSPECTIVE SURFACE NORMAL MAPS

Craig Fancourt, Sarnoff Corporation, United States

WP-P8.8: ARBITRARILY-SHAPED WINDOW BASED STEREO MATCHING USING THE GO-LIGHT OPTIMIZATION ALGORITHM

Xiaoyuan Su, Taghi M. Khoshgoftaar, Florida Atlantic University, United States

WP-P8.9: AN EFFICIENT METHOD FOR THE DETECTION OF PROJECTED CONCENTRIC CIRCLES

Xianghua Ying, Hongbin Zha, Peking University, China

WP-P8.10: DEPTH MAP ESTIMATION USING A ROBUST FOCUS MEASURE

Aamir Malik, Seong-O Shim, Tae-Sun Choi, Gwangju Institute of Science and Technology, Republic of Korea

WP-P8.11: FAST VARIABLE CENTER-BIASED WINDOWING FOR HIGH-SPEED STEREO ON PROGRAMMABLE GRAPHICS HARDWARE

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WP-P8.12: AN IMAGE-BASED RENDERING (IBR) APPROACH FOR REALISTIC STEREO VIEW SYNTHESIS OF TV BROADCAST BASED ON STRUCTURE FROM MOTION

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