Monday Morning

MA-L1: Video Coding for Next Generation Displays
MA-L2: Image And Video Segmentation I
MA-L3: Video Coding I
MA-L4: Image and Video Restoration
MA-L5: Biometrics I
MA-L6: Image and Video Storage and Retrieval I
MA-P1: Stereoscopic and 3D Processing I: Coding and Processing
MA-P2: Active-Contour, Level-Set, and Cluster-Based Segmentation Methods
MA-P3: Image and Video Denoising
MA-P4: Biometrics II: Human Activity, Gait, Gaze Analysis
MA-P5: Security I: Authentication and Steganography
MA-P6: Image and Video Multiresolution Processing
MA-P7: Motion Detection and Estimation I
MA-P8: Image and Video Enhancement

Monday Afternoon

MP-L1: Distributed Source Coding I: Low Complexity Video Coding
MP-L2: Image And Video Segmentation II: Texture Segmentation
MP-L3: Interpolation and Superresolution I
MP-L4: Image and Video Modeling I
MP-L5: Security II
MP-L6: Image Scanning, Display, Printing, Color and Multispectral Processing I
MP-P1: Image and Video Storage and Retrieval II
MP-P2: Morphological, Level-Set, and Edge or Color Image/Video Segmentation
MP-P3: Scalable Video Coding
MP-P4: Image Coding I
MP-P5: Biometrics III: Fingerprints, Iris, Palmprints
MP-P6: Biomedical Imaging I
MP-P7: Motion Detection and Estimation II
MP-P8: Stereoscopic and 3D Processing II: 3D Modeling & Synthesis

Tuesday Morning

TA-L1: Distributed Source Coding II: Distributed Image and Video Coding and Their Applications
TA-L2: Image and Video Segmentation III: Edge or Color Segmentation
TA-L3: Stereoscopic and 3D Processing III
TA-L4: Image and Video Restoration and Enhancement I
TA-L5: Biomedical Imaging II: MRI and Segmentation
TA-L6: Image Coding II
TA-P1: Video Surveillance I / Document Image Processing & Analysis
TA-P2: Security III: Watermarking
TA-P3: Image and Video Modeling II
TA-P4: Video Object Segmentation and Tracking I
TA-P5: Video Coding II
TA-P6: Image Scanning, Display, Printing, Color and Multispectral Processing II
TA-P7: Image Color, Quality, and Display
TA-P8: Image and Video Restoration and Enhancement II

Tuesday Afternoon

TP-L1: Challenges in Restoration for Media Production
TP-L2: Image and Video Filtering and Multiresolution Processing
TP-L3: H.264 Video Coding I
TP-L4: Geosciences and Remote Sensing I
TP-L5: Biomedical Imaging III: Tomography
TP-L6: Image Coding III
TP-P1: Interpolation and Superresolution II
TP-P2: Image & Video Communication I
TP-P3: Image and Video Segmentation IV
TP-P4: Image and Video Segmentation V
TP-P5: Image and Video Artifact Removal and Denoising
TP-P6: Security IV: Forensics, Watermarking, Cryptography
TP-P7: Biometrics IV: Face Recognition
TP-P8: Image and Video Storage and Retrieval III

Wednesday Morning

WA-L1: Image Processing and Analysis for Oncology
WA-L2: Video Object Segmentation and Tracking II
WA-L3: Image & Video Communication II
WA-L4: Stereoscopic and 3D Processing IV: Stereoscopic and 3-D Coding
WA-L5: Video Surveillance II
WA-P1: Stereoscopic and 3D Processing V: Stereo Image Processing & Camera Calibration
WA-P2: Image and Video Filtering II
WA-P3: H.264 Video Coding II
WA-P4: Object Recognition I / Interpolation and Superresolution
WA-P5: Interpolation and Superresolution III
WA-P6: Geosciences and Remote Sensing II
WA-P7: Security V: Watermarking
WA-P8: Biomedical Imaging IV: Segmentation and Quantitative Analysis

Wednesday Afternoon
WP-L1: Soft Computing in Image Processing: Recent Advances
WP-L2: Image and Video Segmentation VI
WP-L3: Video Coding III
WP-L4: Security VI
WP-L5: Motion Detection and Estimation III
WP-L6: Object Recognition II
WP-P1: Implementation of Image and Video Processing Systems II / Biomedical Imaging
WP-P2: Biomedical Imaging V: Molecular & Cellular Bioimaging / Segmentation
WP-P3: Video Object Segmentation and Tracking III / Video Shot/Scene Segmentation
WP-P4: Image and Video Storage and Retrieval IV
WP-P5: Image and Video Modeling III / Distributed Coding
WP-P6: Image Coding IV
WP-P7: Image & Video Communication III
WP-P8: Stereoscopic and 3D Processing VI
MA-L1: Video Coding for Next Generation Displays

MA-L1.1: SCALABLE CODING OF HIGH DYNAMIC RANGE VIDEO
Andrew Segall, Sharp Labs of America, United States

MA-L1.2: BIT-DEPTH SCALABLE VIDEO CODING
Martin Winken, Detlev Marpe, Heiko Schwarz, Thomas Wiegand, Fraunhofer Institute for Telecommunications - Heinrich Hertz Institute, Germany

MA-L1.3: HIGH DYNAMIC RANGE IMAGE AND VIDEO COMPRESSION - FIDELITY MATCHING HUMAN VISUAL PERFORMANCE
Rafal Mantiuk, Grzegorz Krawczyk, Karol Myszkowski, Hans-Peter Seidel, MPI Informatik, Germany

MA-L1.4: NEW STANDARDIZED EXTENSIONS OF MPEG4-AVC/H.264 FOR PROFESSIONAL-QUALITY VIDEO APPLICATIONS
Gary Sullivan, Microsoft Corporation, United States; Haoping Yu, Thomson Inc., United States; Shun-ichi Sekiguchi, Mitsubishi Electric Corporation, Japan; Huifang Sun, Mitsubishi Electric Research Laboratories, United States; Thomas Wied, Steffen Wittmann, Panasonic R&D Center Germany, Germany; Yung-Lyul Lee, Sejong University, Republic of Korea; Andrew Segall, Sharp Labs of America, United States; Teruhiko Suzuki, Sony Corporation, Japan

MA-L1.5: OVERVIEW OF MULTIVIEW VIDEO CODING AND ANTI-ALIASING FOR 3D DISPLAYS
Anthony Vetro, Sehoon Yea, Mitsubishi Electric Research Laboratories, United States; Matthias Zwicker, University of California, San Diego, United States; Wojciech Matusik, Hanspeter Pfister, Mitsubishi Electric Research Laboratories, United States

MA-L1.6: THE SUPER HI-VISION CODEC
Shinichi Sakaida, Nao Nakajima, Atsuro Ichigaya, Masaaki Kurozumi, Kazuhiro Iguchi, Yukihiro Nishida, Eisuke Nakasu, Seiichi Gohshi, NHK, Japan

MA-L1.7: GENERALIZED THEORETICAL MODEL OF RELATIONSHIP BETWEEN FRAME-RATE AND BIT-RATE CONSIDERING LOW PASS FILTERING INDUCED BY SHUTTER OPENING
Yukihiro Bandoh, Kazuya Hayase, Seishi Takamura, Kazuto Kamikura, Yoshiyuki Yashima, NTT, Japan

MA-L1.8: UTILIZING HDTV DISPLAYS TO ITS FULL POTENTIAL AND ITS IMPACT ON VIDEO COMPRESION
Seyno Sluyterman, Philips Lighting, Netherlands; Fons Bruls, Philips Research, Netherlands

MA-L2: Image And Video Segmentation I

MA-L2.1: ACTIVE CONTOURS BASED ON CHAMBOLLE’S MEAN CURVATURE MOTION
Xavier Bresson, Tony F. Chan, University of California, Los Angeles, United States

MA-L2.2: A VARIATIONAL FRAMEWORK FOR PARTIALLY OCCLUDED IMAGE SEGMENTATION USING COARSE TO FINE SHAPE ALIGNMENT AND SEMI-PARAMETRIC DENSITY APPROXIMATION
Lin Yang, Rutgers University, United States; David Foran, The Cancer Institute of New Jersey, UMDNJ, United States
MA-L2.3: COUPLED HIDDEN MARKOV MODELS FOR ROBUST EO/IR TARGET TRACKING
Jiading Gai, Yong Li, Robert L. Stevenson, University of Notre Dame, United States

MA-L2.4: ROBUST OBJECT SEGMENTATION USING ADAPTIVE THRESHOLDING
Xiaxi Huang, Nikolaos V. Boulgouris, King’s College London, United Kingdom

MA-L2.5: FOURIER SHAPE DESCRIPTORS OF PIXEL FOOTPRINTS FOR ROAD EXTRACTION FROM SATELLITE IMAGES
Jiuxiang Hu, Anshuman Razdan, John Femiani, Arizona State University at Polytech, United States; Peter Wonka, Ming Cui, Arizona State University, United States

MA-L2.6: SHAPE PRIOR INTEGRATED IN AN AUTOMATED 3D REGION GROWING METHOD
Jean-Loïc Rose, Chantal Muller, CREATIS, France; Mohamed Almajdub, Emmanuel Chereul, ANIMAGE, France; Christophe Odet, CREATIS, France

MA-L2.7: A MORPHOLOGICAL-BASED LICENSE PLATE LOCATION
Farhad Faradji, Amir Hossein Rezaie, Majid Ziaratban, Amirkabir University of Technology, Iran

MA-L2.8: OPTIMAL PARTICLE ALLOCATION IN PARTICLE FILTERING FOR MULTIPLE OBJECT TRACKING
Pan Pan, Dan Schonfeld, University of Illinois at Chicago, United States

MA-L3: Video Coding I

MA-L3.1: OBJECT-BASED MULTIPLE SPRITE CODING OF UNSEGMENTED VIDEOS USING H.264/AVC
Matthias Kunter, Andreas Krutz, Michael Droese, Technische Universität Berlin, Germany; Michael Frater, University of New South Wales, Australia; Thomas Sikora, Technische Universität Berlin, Germany

MA-L3.2: ADVANCED REAL-TIME RATE CONTROL IN H.264
Chi-Wah Wong, Oscar C. Au, Hong Kong University of Science and Technology, Hong Kong SAR of China; Raymond Chi-Wing Wong, Chinese University of Hong Kong, Hong Kong SAR of China

MA-L3.3: INTRA-FRAME DYADIC SPATIAL SCALABLE CODING BASED ON A SUBBAND/WAVELET FRAMEWORK FOR MPEG-4 AVC/H.264 SCALABLE VIDEO CODING
Shih-Ta Hsiang, Motorola, Inc., United States

MA-L3.4: COMPLEXITY CONTROL FOR REAL-TIME VIDEO CODING
Emrah Akyol, University of California, Los Angeles, United States; Debargha Mukherjee, Yuxin Liu, Hewlett Packard Laboratories, United States

MA-L3.5: TRANSMISSION OF POST-FILTER HINTS FOR VIDEO CODING SCHEMES
Steffen Wittmann, Thomas Wedi, Panasonic, Germany

MA-L3.6: ROYALTY COST BASED OPTIMIZATION FOR VIDEO COMPRESSION
Emrah Akyol, Onur Guleryuz, Reha Civanlar, DoCoMo USA Labs, United States
MA-L3.7: ENABLING INTRODUCTION OF STEREOSCOPIC (3D) VIDEO: FORMATS AND COMPRESSION STANDARDS
Fons Bruls, Chris Varekamp, Rene Klein Gunnewiek, Bart Barenbrug, Philips Research, Netherlands; Arnaud Bourge, Philips Research Laboratories, France

MA-L3.8: SPATIAL TEXTURE MODELS FOR VIDEO COMPRESSION
Marc Bosch, Fengqing Zhu, Edward J. Delp, Purdue University, United States

MA-L4: Image and Video Restoration

MA-L4.1: TOTAL VARIATION IMAGE RESTORATION AND PARAMETER ESTIMATION USING VARIATIONAL POSTERIOR DISTRIBUTION APPROXIMATION
S. Derin Babacan, Northwestern University, United States; Rafael Molina, Universidad de Granada, Spain; Aggelos K Katsaggelos, Northwestern University, United States

MA-L4.2: RADIAL DEBLURRING WITH FFTS
Christopher B. Webster, Stanley Reeves, Auburn University, United States

MA-L4.3: TWO-STEP ALGORITHMS FOR LINEAR INVERSE PROBLEMS WITH NON-QUADRATIC REGULARIZATION
José Bioucas-Dias, Mário Figueiredo, Instituto Superior Técnico, Portugal

MA-L4.4: VARIATIONAL BAYESIAN BLIND IMAGE DECONVOLUTION WITH STUDENT-T PRIORS
Dimitris Tzikas, Aristidis Likas, Nikolaos Galatsanos, University of Ioannina, Greece

MA-L4.5: IMAGE BLUR REDUCTION FOR CELL-PHONE CAMERAS VIA ADAPTIVE TONAL CORRECTION
Qolamreza Razlighi, Nasser Kehtarnavaz, University of Texas at Dallas, United States

MA-L4.6: IMAGE STABILIZATION BASED ON FUSING THE VISUAL INFORMATION IN DIFFERENTLY EXPOSED IMAGES
Marius Tico, Markku Vehvilainen, Nokia Research Center, Finland

MA-L4.7: FROM GLOBAL TO LOCAL BAYESIAN PARAMETER ESTIMATION IN IMAGE RESTORATION USING VARIATIONAL DISTRIBUTION APPROXIMATIONS
Rafael Molina, Miguel Vega, University of Granada, Spain; Aggelos Katsaggelos, Northwestern University, United States

MA-L4.8: NONSTATIONARY BLIND IMAGE RESTORATION USING VARIATIONAL METHODS
Tom E. Bishop, University of Edinburgh, United Kingdom; Rafael Molina, Universidad de Granada, Spain; James R. Hopgood, University of Edinburgh, United Kingdom

MA-L5: Biometrics I

MA-L5.1: DOMAIN-PARTITIONING RANKBOOST FOR FACE RECOGNITION
Bangpeng Yao, Haizhou Ai, Tsinghua University, China; Yoshihisa Ijiri, Shihong Lao, Omon Corporation, Japan
MA-L5.2: ORTHOGONAL NEIGHBORHOOD PRESERVING EMBEDDING FOR FACE RECOGNITION
Xiaoming Liu, Jianwei Yin, Zhejiang University, China; Zhilin Feng, Zhejiang University of Technology, China; Jinxian Dong, Zhejiang University, China; Lu Wang, Tsinghua University, China

MA-L5.3: 3D FACE RECOGNITION BASED ON 3D RIDGE LINES IN RANGE DATA
Mohammad H. Mahoor, Mohamed Abdel-Mottaleb, University of Miami, United States

MA-L5.4: QUERY-DRIVEN LOCALLY ADAPTIVE FISHER FACES AND EXPERT-MODEL FOR FACE RECOGNITION
Yun Fu, University of Illinois at Urbana-Champaign, United States; Junsong Yuan, Northwestern University, United States; Zhu Li, Motorola Labs, United States; Thomas S. Huang, University of Illinois at Urbana-Champaign, United States; Ying Wu, Northwestern University, United States

MA-L5.5: THREE DIMENSIONAL FACE RECOGNITION USING WAVELET DECOMPOSITION OF RANGE IMAGES
Sina Jahanbin, Hyoohoon Choi, Alan Bovik, University of Texas at Austin, United States; Kenneth Castleman, Advanced Digital Imaging Research, LLC., United States

MA-L5.6: A NEW METHODOLOGY OF ILLUMINATION ESTIMATION/NORMALIZATION BASED ON ADAPTIVE SMOOTHING FOR ROBUST FACE RECOGNITION
Young Kyung Park, Joong Kyu Kim, SungKyunKwan University, Republic of Korea

MA-L5.7: GABOR-BASED IMPROVED LOCALITY PRESERVING PROJECTIONS FOR FACE RECOGNITION
Yi Jin, Qiu-Qi Ruan, Beijing Jiaotong University, China

MA-L5.8: FAST 3D FACE ALIGNMENT AND IMPROVED RECOGNITION THROUGH PYRAMIDAL NORMAL MAP METRIC
Andrea F. Abate, Michele Nappi, Stefano Ricciardi, Gabriele Sabatino, University of Salerno, Italy

MA-L6: Image and Video Storage and Retrieval I

MA-L6.1: A NEW SHAPE SIGNATURE FOR FOURIER DESCRIPTORS
Akrem El-ghazal, Otman Basir, University of Waterloo, Canada; Saeid Belkasim, Georgia State University, United States

MA-L6.2: COMMON SPATIAL PATTERN DISCOVERY BY EFFICIENT CANDIDATE PRUNING
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

MA-L6.3: DO COLOUR INTEREST POINTS IMPROVE IMAGE RETRIEVAL?
Julian Stoettinger, Allan Hanbury, Vienna University of Technology, Austria; Nicu Sebe, Theo Gevers, University of Amsterdam (UvA), Netherlands

MA-L6.4: 3-WAY-TREES: A SIMILARITY SEARCH METHOD FOR HIGH-DIMENSIONAL DESCRIPTOR MATCHING
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
MA-L6.5: KERNELS ON BAGS OF FUZZY REGIONS FOR FAST OBJECT RETRIEVAL
Philippe Henri Gosselin, ETIS CNRS UMR 8051, France; Matthieu Cord, LIP6 CNRS UMR 7606, France; Sylvie Philipp-Foliguet, ETIS CNRS UMR 8051, France

MA-L6.6: OBJECT RECOGNITION BY LEARNING INFORMATIVE, BIOLOGICALLY INSPIRED VISUAL FEATURES
Yang Wu, Nanning Zheng, Qubo You, Shaoyi Du, Institute of Artificial Intelligence and Robotics, China

MA-L6.7: A NOVEL VIDEO MINING SYSTEM
Arasanathan Anjulan, Nishan Canagarajah, University of Bristol, United Kingdom

MA-L6.8: LAPLACIAN AFFINITY PROPAGATION FOR SEMI-SUPERVISED OBJECT CLASSIFICATION
Yun Fu, University of Illinois at Urbana-Champaign, United States; Zhu Li, Motorola Labs, United States; Xi Zhou, Thomas S. Huang, University of Illinois at Urbana-Champaign, United States

MA-P1: Stereoscopic and 3D Processing I: Coding and Processing

MA-P1.1: HOW DOES SUBSAMPLING OF MULTI-VIEW IMAGES AFFECT THE RATE-DISTORTION PERFORMANCE?
Keita Takahashi, Takeshi Naemura, University of Tokyo, Japan

MA-P1.2: CODING OF MULTIVIEW IMAGERY WITH MOTION AND DISPARITY COMPENSATED ORTHOGONAL TRANSFORMS
Markus Flierl, Stanford University, United States

MA-P1.3: MULTI-VIEW VIDEO PLUS DEPTH REPRESENTATION AND CODING
Philipp Merkle, Aljoscha Smolic, Karsten Müller, Thomas Wiegand, Fraunhofer Institute for Telecommunications - Heinrich Hertz Institute, Germany

MA-P1.4: INCORPORATING DEPTH-IMAGE BASED VIEW-PREDICTION INTO H.264 FOR MULTIVIEW-IMAGE CODING
Yannick Morvan, Dirk Farin, Peter de With, Eindhoven University of Technology, Netherlands

MA-P1.5: RD-OPTIMIZED VIEW SYNTHESIS PREDICTION FOR MULTIVIEW VIDEO CODING
Sehoon Yea, Anthony Vetro, Mitsubishi Electric Research Laboratories, United States

MA-P1.6: RENDERING-ORIENTED DECODING FOR DISTRIBUTED MULTI-VIEW CODING SYSTEM
Yuichi Taguchi, Takeshi Naemura, University of Tokyo, Japan

MA-P1.7: MOTION-BASED GEOMETRY COMPENSATION FOR DWT COMPRESSION OF 3D MESH SEQUENCES
Yasmine Boulfani-Cuisinaud, Marc Antonini, I3S Laboratory, France

MA-P1.8: MULTI-VIEWPOINT SYNTHESIS FROM UNCALIBRATED STEREO CAMERAS
Marcelo Perez, Carla Pagliari, Instituto Militar de Engenharia - IME, Brazil
MA-P1.9: PRECISE 3-D MEASUREMENT USING UNCALIBRATED PATTERN PROJECTION
Rui Ishiyama, NEC Corporation, Japan; Takayuki Okatani, Koichiro Deguchi, Tohoku University, Japan

MA-P1.10: CAMERA-TO-CAMERA GEOMETRY ESTIMATION REQUIRING NO OVERLAP IN THEIR VISUAL FIELDS
Ding Yuan, Ronald Chung, Chinese University of Hong Kong, Hong Kong SAR of China

MA-P1.11: STEREO MATCHING USING MULTI-DIRECTIONAL DYNAMIC PROGRAMMING AND EDGE ORIENATIONS
Min Chul Sung, Sang Hwa Lee, Nam Ik Cho, Seoul National University, Republic of Korea

MA-P1.12: STEREO MATCHING USING REDUCED-GRAF CUTS
Ayman Zureiki, Michel Devy, Raja Chatila, LAAS-CNRS, France

MA-P2: Active-Contour, Level-Set, and Cluster-Based Segmentation Methods

MA-P2.1: MODELING OF FRONT EVOLUTION WITH GRAPH CUT OPTIMIZATION
Hang Chang, Lawrence Berkeley National Laboratory, United States; Qing Yang, Institute of Automation, Chinese Academy of Sciences, United States; Manfred Auer, Bahram Parvin, Lawrence Berkeley National Laboratory, United States

MA-P2.2: FOVEAL WAVELET-BASED COLOR ACTIVE CONTOUR
Aldo Maalouf, Philippe Carré, Bertrand Augereau, Christine Fernandez-Maloigne, SIC Laboratory, University of Poitiers, France

MA-P2.3: AN IMPROVED SNAKE-BASED METHOD FOR OBJECT CONTOUR DETECTION
Shin-Hyounge Kim, Jong Whan Jang, PaiChai University, Republic of Korea

MA-P2.4: CONTENT ADAPTIVE HETEROGENEOUS SNAKES
Andras Hajdu, University of Debrecen, Hungary; Ioannis Pitas, University of Thessaloniki, Greece

MA-P2.5: FITTING A PINEAPPLE MODEL FOR AUTOMATIC MATURITY GRADING
Watcharin Kaewapichai, Pakorn Kaewtrakulpong, Asa Prateepasen, Kittiya Khongkraphan, King Mongkut's University of Technology, Thonburi, Thailand

MA-P2.6: IMPLICIT EVOLUTION OF OPEN ENDED CURVES
Saurav Basu, University of Virginia, United States; Dipti Prasad Mukherjee, Indian Statistical Institute, India; Scott T. Acton, University of Virginia, United States

MA-P2.7: LARGE SCALE LEARNING OF ACTIVE SHAPE MODELS
Atul Kanaujia, Dimitris Metaxas, Rutgers University, United States

MA-P2.8: HIERARCHICALLY DISTRIBUTED DYNAMIC MEAN SHIFT
Kohei Inoue, Kiichi Urahama, Kyushu University, Japan

MA-P2.9: ROBUST IMAGE SEGMENTATION WITH MIXTURES OF STUDENT T-DISTRIBUTIONS
Giorgos Sfikas, Christopcoros Nikou, Nikolaos Galatsanos, University of Ioannina, Greece
MA-P2.10: A HIERARCHICAL CLUSTERING BASED ON MUTUAL INFORMATION MAXIMIZATION
Mehdi Aghagolzadeh, Hamid Soltanian-Zadeh, Babak Nadjar Araabi, Control and Intelligent Processing Center of Excellence, Iran; Ali Aghagolzadeh, University of Tabriz, Iran

MA-P2.11: IMPROVING SEGMENTATION MAPS USING POLARIZATION IMAGING
Jawad Elsayed Ahmad, Yoshitate Takakura, University Louis Pasteur, France

MA-P2.12: DEFORMABLE SHAPE PRIORS IN CHAN-VESE SEGMENTATION OF IMAGE SEQUENCES
Ketut Fundana, Niels Chr. Overgaard, Anders Heyden, Malmö University, Sweden

MA-P3: Image and Video Denoising

MA-P3.1: BANDELET-BASED ANISOTROPIC DIFFUSION
Aldo Maalouf, Philippe Carré, Bertrand Augereau, Christine Fernandez-Maloigne, SIC Laboratory, University of Poitiers, France

MA-P3.2: NONCONVEX REGULARIZATION FOR SHAPE PRESERVATION
Rick Chartrand, Los Alamos National Laboratory, United States

MA-P3.3: DETECTION AND REMOVAL OF RAINBOW EFFECT ARTIFACTS
Lanlan Chang, Yap-Peng Tan, Hock-Chuan Chua, Nanyang Technological University, Singapore

MA-P3.4: IMAGE DENOISING WITH DIRECTIONAL BASES
Heechan Park, Graham Martin, Zhen Yao, University of Warwick, United Kingdom

MA-P3.5: SALIENSHRINK: SALIENCY-BASED WAVELET SHRINKAGE
Konstantinos Rapantzikos, Yannis Avrithis, Stefanos Kollias, National Technical University of Athens, Greece

MA-P3.6: DENOISING VIA NONLINEAR IMAGE DECOMPOSITION FOR A DIGITAL COLOR CAMERA
Yuki Ishii, Takahiro Saito, Takashi Komatsu, Kanagawa University, Japan

MA-P3.7: COLOR IMAGE DENOISING VIA SPARSE 3D COLLABORATIVE FILTERING WITH GROUPING CONSTRAINT IN LUMINANCE-CHROMINANCE SPACE
Kostadin Dabov, Alessandro Foi, Vladimir Katkovnik, Karen Egiazarian, Tampere University of Technology, Finland

MA-P3.8: REMOVAL OF CORRELATED NOISE BY MODELING SPATIAL CORRELATIONS AND INTERSCALE DEPENDENCIES IN THE COMPLEX WAVELET DOMAIN
Bart Goossens, Aleksandra Pizurica, Wilfried Philips, Ghent University, Belgium

MA-P3.9: EDGE PRESERVING FILTERS USING GEODESIC DISTANCES ON WEIGHTED ORTHOGONAL DOMAINS
Luca Bertelli, B. S. Manjunath, University of California, Santa Barbara, United States
MA-P3.10: TRAINED BILATERAL FILTERS AND APPLICATIONS TO CODING ARTIFACTS REDUCTION
Hao Hu, Eindhoven University of Technology, Netherlands; Gerard de Haan, Philips Research, Netherlands

MA-P3.11: A NEW NONLINEAR DIFFUSION METHOD TO IMPROVE IMAGE QUALITY
Yue Zhang, School of Zhuhai, Jinan University, China; Xiaoyin Xu, Brigham and Women’s Hospital, United States; Hongmin Cai, S. P. Yung, University of Hong Kong, Hong Kong SAR of China; Stephen T.C. Wong, Brigham and Women’s Hospital, United States

MA-P3.12: AN IMAGE DENOISING ALGORITHM WITH AN ADAPTIVE WINDOW
Dengwen Zhou, North China Electric Power University, China

MA-P4: Biometrics II: Human Activity, Gait, Gaze Analysis

MA-P4.1: ORTHOGONAL DIAGONAL PROJECTIONS FOR GAIT RECOGNITION
Daoliang Tan, Kaiqi Huang, Shiqi Yu, Tieniu Tan, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

MA-P4.2: ABNORMAL ACTIVITY RECOGNITION IN OFFICE BASED ON R TRANSFORM
Ying Wang, Kaiqi Huang, Tieniu Tan, National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences, China

MA-P4.3: REAL-TIME AUTOMATIC DETECTION OF VIOLENT-ACTS BY LOW-LEVEL COLOUR VISUAL CUES
Alessandro Mecocci, Francesco Micheli, University of Siena, Italy

MA-P4.4: GAIT IDENTIFICATION USING THE 3D PROTRUSION TRANSFORM
Dimosthenis Ioannidis, Dimitrios Tzovaras, Konstantinos Moustakas, Informatics and Telematics Institute / CERTH, Greece

MA-P4.5: GAIT RECOGNITION BASED ON HUMAN BODY COMPONENTS
Nikolaos V. Boulgouris, Zhiwei X. Chi, King's College London, United Kingdom

MA-P4.6: 3D HUMAN MOTION TRACKING USING MANIFOLD LEARNING
Feng Guo, Gang Qian, Arizona State University, United States

MA-P4.7: HIGH SPEED VISUAL SALIENCY COMPUTATION ON GPU
Bo Han, Bingfeng Zhou, Peking University, China

MA-P4.8: SEGMENTATION AND RECOGNITION OF CONTINUOUS GESTURES
Hong Li, Michael Greenspan, Queen's University, Canada

MA-P4.9: AUTOMATIC MEASURES FOR PREDICTING PERFORMANCE IN OFF-LINE SIGNATURE
F. Alonso-Fernandez, Universidad Autonoma de Madrid, Spain; M. C. Fairhurst, University of Kent, United Kingdom; J. Fierrez, J. Ortega-Garcia, Universidad Autonoma de Madrid, Spain
MA-P4.10: USING STRUCTURED ILLUMINATION TO ENHANCE VIDEO-BASED EYE TRACKING
Feng Li, Susan Kolakowski, Jeff Pelz, Rochester Institute of Technology, United States

MA-P4.11: A ROBUST APPROACH FOR EYE LOCALIZATION UNDER VARIABLE ILLUMINATIONS
Shan Du, Rabab Ward, University of British Columbia, Canada

MA-P4.12: EXTRAPOLATING LEARNED MANIFOLDS FOR HUMAN ACTIVITY RECOGNITION
Tat-Jun Chin, Institute for Infocomm Research, Singapore; Liang Wang, University of Melbourne, Australia; Konrad Schindler, ETH Zurich, Switzerland; David Suter, Monash University, Australia

MA-P5: Security I: Authentication and Steganography

MA-P5.1: BINARY IMAGE AUTHENTICATION USING ZERNIKE MOMENTS
Hongmei Liu, Wei Rui, Jiwu Huang, Sun Yat-Sen University, China

MA-P5.2: A GREY-LEVEL IMAGE EMBEDDING ITS COLOR PALETTE
Marc Chaumont, William Puech, Laboratory LIRMM, UMR CNRS 5506, University of Montpellier II, France

MA-P5.3: COMPENSATED SIGNATURE EMBEDDING BASED MULTIMEDIA CONTENT AUTHENTICATION SYSTEM
Sufyan Ababneh, Ashfaq Khokhar, Rashid Ansari, University of Illinois at Chicago, United States

MA-P5.4: TAMPER DETECTION BASED ON REGULARITY OF WAVELET TRANSFORM COEFFICIENTS
Yagiz Sutcu, Baris Coskun, Husrev Taha Sencar, Nasir Memon, Polytechnic University, United States

MA-P5.5: ATTACK LSB MATCHING STEGANOGRAPHY BY COUNTING ALTERATION RATE OF THE NUMBER OF NEIGHBOURHOOD GRAY LEVELS
Fangjun Huang, Bin Li, Jiwu Huang, Sun Yat-Sen University, China

MA-P5.6: BENFORD'S LAW IN IMAGE PROCESSING
Fernando Perez-Gonzalez, University of Vigo, Spain; Greg Heileman, Chaouki Abdallah, University of New Mexico, United States

MA-P5.7: ESTIMATING STEGANOGRAPHIC CAPACITY FOR ODD-EVEN BASED EMBEDDING AND ITS USE IN INDIVIDUAL COMPENSATION
Anindya Sarkar, Bangalore S. Manjunath, University of California, Santa Barbara, United States

MA-P5.8: STEGANALYSIS OF LSB GREEDY EMBEDDING ALGORITHM FOR JPEG IMAGES USING COEFFICIENT SYMMETRY
Bin Li, Fangjun Huang, Jiwu Huang, Sun Yat-Sen University, China

MA-P5.9: STEGANALYSIS USING NOISE VARIANCE ESTIMATION
Christopher Smith, Southwest Research Institute, United States
MA-P5.10: DETECTING HIDDEN MESSAGES USING IMAGE POWER SPECTRUM
Palak Amin, K. P. Subbalakshmi, Stevens Institute of Technology, United States

MA-P6: Image and Video Multiresolution Processing

MA-P6.1: HILBERT TRANSFORM PAIRS OF ORTHONORMAL SYMMETRIC WAVELET BASES USING ALLPASS FILTERS
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, Ll-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. Jenkins, Jeremiah MacSleyne, Christopher Hoffman, Philipp Cudra, 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 Béreziat, 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; Dingnang 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-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 ENHANCEMENT
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 Lavarenè, Université Joseph Fourier, France; David Allelyson, CNRS, France; Barthélémey 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, Chihuahua 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-P4.1: LOSSLESS CODING OF COLOR IMAGES USING BLOCK-ADAPTIVE INTER-COLOR PREDICTION
Ichiro Matsuda, Tomokazu Kaneko, Akira Minezawa, Susumu Itoh, Science University of Tokyo, Japan

MP-P4.2: USING H.264/AVC-INTRA FOR SEGMENTATION-DRIVEN COMPOUND DOCUMENT CODING
Alexandre Zaghetto, Ricardo L. de Queiroz, Universidade de Brasília, Brazil

MP-P4.3: ENABLE EFFICIENT COMPOUND IMAGE COMPRESSION IN H.264/AVC INTRA CODING
Wenpeng Ding, University of Science and Technology of China, China; Yan Lu, Feng Wu, Microsoft Research Asia, China

MP-P4.4: AN EFFICIENT COMPRESSION ALGORITHM FOR HYPERSPECTRAL IMAGES BASED ON CORRELATION COEFFICIENTS ADAPTIVE THREE DIMENSIONAL WAVELET ZERO TREE CODING
Guizhong Liu, Fan Zhao, Xi’an Jiaotong University, China

MP-P4.5: DISTRIBUTED CODING OF MULTIRESOLUTION OMNIDIRECTIONAL IMAGES
Vijayaraghavan Thirumalai, Ivana Tosić, Pascal Frossard, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland

MP-P4.6: LOSSLESS MICROARRAY IMAGE COMPRESSION USING REGION BASED PREDICTORS
A. Neekabadi, Shadrokh Samavi, S. A. Razavi, N. Karimi, Isfahan University of Technology, Iran; Shahram Shirani, McMaster University, Canada

MP-P4.7: A HIGH PERFORMANCE LOSSLESS BAYER IMAGE COMPRESSION SCHEME
King Hong Chung, Yuk Hee Chan, Chang Hong Fu, Yui Lam Chan, The Hong Kong Polytechnic University, Hong Kong SAR of China

MP-P4.8: LOSSLESS COMPRESSION ALGORITHMS FOR POST-OPC IC LAYOUT
Allan Gu, Avideh Zakhor, University of California, Berkeley, United States

MP-P4.9: ON THE USE OF JPEG 2000 TO ACHIEVE MINIMUM L-INFINITY ERROR WHEN SPECIFYING A COMPRESSION RATIO
Aldo Lucero, Sergio Cabrera, University of Texas at El Paso, United States; Edward Vidal, Formerly at U.S. Army Research Lab, United States

MP-P4.10: ENHANCED QUALITY SCALABILITY FOR JPEG2000 CODE-STREAMS BY THE CHARACTERIZATION OF THE RATE-DISTORTION SLOPE
Francesc Auli-Llinas, Joan Serra-Sagrista, Joan Bartina-Rapesta, Jose Lino Monteagudo-Pereira, Universitat Autonoma de Barcelona, Spain

MP-P4.11: IMAGE CODING WITH PARAMETER-ASSISTANT INPAINTING
Zhiwei Xiong, University of Science and Technology of China, China; Xiaoyan Sun, Feng Wu, Shipeng Li, Microsoft Research Asia, China
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, Xiaou 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
Omaira 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-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, Chrît 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 Benoist-Pineau, LaBRI, France; Chrît 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 FUUSED 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 Vanderghynst, 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

TA-P5: Video Coding II

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 EFFICIENT 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

TA-P6.1: FOURIER DOMAIN DISPLAY COLOR FILTER ARRAY DESIGN
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, Nanyang 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

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  
Kärtheek 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 Vandenbergroucke, 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 Zwoao, 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 Hassaine, 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 RECURRANCE 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

TP-L3: H.264 Video Coding I
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; Vítor 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 TRANSCODING 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, Universidad de 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

TP-L4: Geosciences and Remote Sensing I

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 Guillen, 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, Jiahua 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

TP-P1: Interpolation and Superresolution II

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 Luisa 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

TP-P1.7: A NEW CLASS OF FILTERS FOR IMAGE INTERPOLATION AND RESIZING  
Amir Said, Hewlett Packard Laboratories, United States

TP-P1.8: CONDITIONS FOR COLOR MISREGISTRATION SENSITIVITY IN CLUSTERED-DOT HALFTONES  
Basak Oztan, Gaurav Sharma, University of Rochester, United States; Robert P. Loce, Xerox Corporation, United States

TP-P1.9: AN EFFICIENT AND EFFECTIVE COLOR FILTER ARRAY DEMOSAICKING METHOD  
Nai-Xiang Lian, Yap-Peng Tan, Nanyang Technological University, Singapore

TP-P1.10: COLOR DEMOSAICKING USING DIRECTION CATEGORIZATION  
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

TP-P1.11: CAMERA RESPONSE FUNCTION RECOVERY FROM AUTO-EXPOSURE CAMERAS  
Chris Aimone, Steve Mann, University of Toronto, Canada

TP-P1.12: NONLINEAR POISSON IMAGE COMPLETION USING COLOR MANIFOLD  
Su Xue, Qionghai Dai, Tsinghua University, China

TP-P2: Image & Video Communication I

TP-P2.1: SPATIO-TEMPORAL MARKOV RANDOM FIELDS-BASED PACKET VIDEO ERROR CONCEALMENT  
Daniel Persson, Thomas Eriksson, Chalmers University, Sweden

TP-P2.2: REAL-TIME MULTIPLE DESCRIPTION VIDEO STREAMING OVER QOS-BASED WIRELESS NETWORKS  
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
TP-P2.4: ADAPTIVE REDUNDANT PICTURE FOR ERROR RESILIENT VIDEO CODING
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

TP-P2.5: LOCALLY ADAPTIVE INTRASUBBAND INTERPOLATION OF LOST LOW FREQUENCY COEFFICIENTS IN WAVELET CODED IMAGES
Joost Rombaut, Aleksandra Pizurica, Wilfried Philips, Ghent University, Belgium

TP-P2.6: COMPLEXITY CONSTRAINED ROBUST VIDEO TRANSMISSION FOR HAND-HELD DEVICES
Waqar Zia, Klaus Diepold, Technische Universität München, Germany; Thomas Stockhammer, Nomor Research GmbH, Germany

TP-P2.7: H.264/AVC-BASED MULTIPLE DESCRIPTION CODING SCHEME
Che-Chun Su, Jason Yao, Homer Chen, National Taiwan University, Taiwan

TP-P2.8: H.264 MULTIPLE DESCRIPTION CODING BASED ON REDUNDANT PICTURE REPRESENTATION
Tammam Tillo, Marco Grangetto, Gabriella Olmo, Politecnico di Torino, Italy

TP-P2.9: PATTERN-BASED ERROR RECOVERY OF LOW RESOLUTION SUBBANDS IN JPEG2000
Alireza Aminlou, Nasim Hajari, Hossein Badakhshannoory, Mahmoud Reza Hashemi, Omid Fatemi, University of Tehran, Iran

TP-P2.10: INTERLACING INTRAFRAMES IN MULTIPLE-DESCRIPTION VIDEO CODING
Ermin Kozica, Dave Zachariah, Bastiaan Kleijn, KTH (Royal Institute of Technology), Sweden

TP-P2.11: MULTIFRAME ERROR CONCEALMENT FOR WHOLE-FRAME LOSS IN H.264/AVC
Yi Liu, Jiajun Bu, Chun Chen, Linjian Mo, Kewei He, Zhejiang University, China

TP-P2.12: LOSSLESS FMO AND SLICE STRUCTURE MODIFICATION FOR COMPRESSED H.264 VIDEO
Wai-tian Tan, Eric Setton, John Apostolopoulos, Hewlett Packard, United States

TP-P3: Image and Video Segmentation IV

TP-P3.1: A NEW SCHEME FOR AUTOMATIC INITIALIZATION OF DEFORMABLE MODELS
Weijia Shen, Ashraf A. Kassim, National University of Singapore, Singapore

TP-P3.2: ESTIMATION AND ANALYSIS OF FACIAL ANIMATION PARAMETER PATTERNS
Ferda Ofli, Engin Erzin, Yucel Yemez, A. Murat Tekalp, Koç University, Turkey

TP-P3.3: MONOTONIC VECTOR FORCES AND GREEN’S THEOREM FOR AUTOMATIC AREA CALCULATION
Nikolay Metodiev Sirakov, Texas A&M University Commerce, United States

TP-P3.4: UNSUPERVISED LIPS SEGMENTATION BASED ON ROI OPTIMISATION AND PARAMETRIC MODEL
Christian Bouvier, Pierre-Yves Coulon, GIIPSA lab, France; Xavier Maldague, University Laval, Sainte-Foy, Canada
TP-P3.5: MARRYING LEVEL-LINE JUNCTIONS FOR OBSTACLE DETECTION
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

TP-P3.7: SEMANTICS-BASED VIDEO INDEXING USING A STOCHASTIC MODELING APPROACH
Yong Wei, Suchendra Bhandarkar, Kang Li, University of Georgia, United States

TP-P3.8: DIRECTIONAL LOCAL CONTRAST BASED BLOOD VESSEL DETECTION IN RETINAL IMAGES
Ming Zhang, Jyh-Charn Liu, Texas A&M University, United States

TP-P3.9: ROBUST VEHICLE DETECTION THROUGH MULTIDIMENSIONAL CLASSIFICATION FOR ON BOARD VIDEO BASED SYSTEMS
Daniel Alonso, Luis Salgado, Marcos Nieto, Grupo de Tratamiento de Imágenes - E.T.S. Ing. Telecomunicación, Spain

TP-P3.10: ON BUILDING A HIERARCHICAL REGION-BASED REPRESENTATION FOR GENERIC IMAGE ANALYSIS
Veronica Vilaplana, Ferran Marques, Technical University of Catalonia (UPC), Spain

TP-P3.11: IMAGE BASED METROLOGY FOR QUANTITATIVE ANALYSIS OF LOCAL STRUCTURAL SIMILARITY OF NANOSTRUCTURES
P. Ravindran, N. J. Ferrier, S. M. Park, P. F. Nealey, University of Wisconsin-Madison, United States

TP-P4: Image and Video Segmentation V

TP-P4.1: SHAPE PRIORS BY KERNEL DENSITY MODELING OF PCA RESIDUAL STRUCTURE
J. P. Lewis, Stanford University, United States; Iman Mostafavi, Gina Sosinsky, Maryanne Martone, Ruth West, University of California, San Diego, United States

TP-P4.2: ML NONLINEAR SMOOTHING FOR IMAGE SEGMENTATION AND ITS RELATIONSHIP TO THE MEAN SHIFT
Andy Backhouse, Irene Y. H. Gu, Chalmers University of Technology, Sweden; Tiesheng Wang, Shanghai Jiao Tong University, China

TP-P4.3: FAST SUPPORT VECTOR MACHINE FOR IMAGE SEGMENTATION
Zhiwen Yu, Hau-San Wong, City University of Hong Kong, Hong Kong SAR of China

TP-P4.4: BACKGROUND CUTOUT WITH AUTOMATIC OBJECT DISCOVERY
David Liu, Tsuhan Chen, Carnegie Mellon University, United States

TP-P4.5: MAN-MADE STRUCTURE SEGMENTATION USING GAUSSIAN PROCESSES AND WAVELET FEATURES
Hang Zhou, David Suter, Institute for Vision Systems Engineering, Australia
TP-P4.6: JOINT SEGMENTATION AND RECOGNITION OF LICENSE PLATE CHARACTERS
Xin Fan, Guoliang Fan, Oklahoma State University, United States; Dequn Liang, Dalian Maritime University, China

TP-P4.7: STATISTICAL MULTISCALE IMAGE SEGMENTATION VIA ALPHA-STABLE MODELING
Tao Wan, Nishan Canagarajah, Alin Achim, University of Bristol, United Kingdom

TP-P4.8: PROJECTION ONTO A SHAPE MANIFOLD FOR IMAGE SEGMENTATION WITH PRIOR
Patrick Etyngier, Renaud Keriven, Florent Ségonne, Ecole des ponts, France

TP-P4.9: GRAPH CUT SEGMENTATION WITH NONLINEAR SHAPE PRIORS
James Malcolm, Yogesh Rathi, Allen Tannenbaum, Georgia Institute of Technology, United States

TP-P4.10: SHORELINE BASED FEATURE EXTRACTION AND OPTIMAL FEATURE SELECTION FOR SEGMENTING AIRBORNE LIDAR INTENSITY IMAGES
Michael Starek, Raghavendra Vemula, University of Florida, United States; Clint Slatton, Florida State University, United States; Ramesh Shrestha, William Carter, University of Florida, United States

TP-P4.11: EM BASED APPROXIMATION OF EMPIRICAL DISTRIBUTIONS WITH LINEAR COMBINATIONS OF DISCRETE GAUSSIANS
Ayman El-baz, University of Louisville, United States; Georgy Gimel’farb, University of Auckland, New Zealand

TP-P4.12: THE HOUGH TRANSFORM’S IMPLICIT BAYESIAN FOUNDATION
Neil Toronto, Bryan Morse, Dan Ventura, Kevin Seppi, Brigham Young University, United States

TP-P5: Image and Video Artifact Removal and Denoising
TP-P5.1: A MULTI-FRAME POST-PROCESSING APPROACH TO IMPROVED DECODING OF H.264/AVC VIDEO
Xin Huang, Huining Li, Søren Forchhammer, Technical University of Denmark, Denmark

TP-P5.2: COLORIZATION IN YCBCR SPACE AND ITS APPLICATION TO IMPROVE QUALITY OF JPEG COLOR IMAGES
Hideki Noda, Nobuteru Takao, Michiharu Niimi, Kyushu Institute of Technology, Japan

TP-P5.3: QUALITY ENHANCEMENT FOR MOTION JEPG USING TEMPORAL REDUNDANCIES
Dung Vo, Truong Nguyen, University of California, San Diego, United States

TP-P5.4: ADAPTIVE REPAIR OF COMPRESSED VIDEO SIGNALS USING LOCAL OBJECTIVE METRICS OF BLOCKING ARTIFACTS
Ihor Kirenko, Ling Shao, Philips Research Laboratories, Netherlands

TP-P5.5: MULTI-SCALE PROBABILISTIC DITHERING FOR SUPPRESSING BANDING ARTIFACTS IN DIGITAL IMAGES
Sitaram Bhagavathy, Joan Llach, Jiefu Zhai, Thomson Corporate Research, United States
TP-P5.6: SPATIO-TEMPORAL FREQUENCY ANALYSIS OF MOTION BLUR REDUCTION ON LCDS
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

TP-P5.8: INTERFRAME MOTION DEBLURRING USING SPATIO-TEMPORAL REGULARIZATION
Ikuko Tsubaki, Sharp Corp., Japan; Takashi Komatsu, Takahiro Saito, Kanagawa University, Japan

TP-P5.9: IMAGE RESTORATION USING GEOMETRICALLY STABILIZED REVERSE HEAT EQUATION
Vinay Namboodiri, Subhasis Chaudhuri, Indian Institute of Technology, Bombay, India

TP-P5.10: ADAPTIVE BILATERAL FILTER FOR SHARPNESS ENHANCEMENT AND NOISE REMOVAL
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

TP-P5.12: IMAGE DENOISING THROUGH SUPPORT VECTOR REGRESSION
Dalong Li, Steven Simske, Hewlett Packard Laboratories, United States; Russell Mersereau, Georgia Institute of Technology, United States

TP-P6: Security IV: Forensics, Watermarking, Cryptography

TP-P6.1: SOURCE CAMERA IDENTIFICATION BASED ON CAMERA GAIN HISTOGRAM
Sz-Han Chen, Chiou-Ting Hsu, National Tsing Hua University, Taiwan

TP-P6.2: NEW FEATURES TO IDENTIFY COMPUTER GENERATED IMAGES
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

TP-P6.4: AUTOMATIC RECOGNITION OF PARTIAL SHOEPRINTS BASED ON PHASE-ONLY CORRELATION
Mourad Gueham, Ahmed Bouridane, Danny Crookes, Queen’s University Belfast, United Kingdom

TP-P6.5: PRACTICAL SECURITY OF NON-INVERTIBLE WATERMARKING SCHEMES
Qiming Li, Nasir Memon, Polytechnic University, United States
TP-P6.6: ON OPTIMAL WATERMARKING SCHEMES IN UNCERTAIN GAUSSIAN CHANNELS
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

TP-P6.8: MODIFIED LEVEL TRANSFORMATION FOR BIT INVERSION IN WATERMARKING
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 ASYMOBOOST 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

TP-P7.8: VIDEO FACE RECOGNITION: A PHYSIOLOGICAL AND BEHAVIOURAL MULTIMODAL APPROACH
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

TP-P7.10: FACE RECOGNITION USING FEATURE OF INTEGRAL GABOR-HAAR TRANSFORMATION
Jianguo Li, Tao Wang, Yimin Zhang, Intel China Research Center, China

TP-P7.11: 3D FACE MESH MODELING FROM RANGE IMAGES FOR 3D FACE RECOGNITION
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

TP-P8: Image and Video Storage and Retrieval III

TP-P8.1: WEIGHTED CO-SVM FOR IMAGE RETRIEVAL WITH MVB STRATEGY
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

WA-L1: Image Processing and Analysis for Oncology
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

WA-L1.3: A FEATURE ANALYSIS APPROACH TO MASS DETECTION IN MAMMOGRAPHY BASED ON RF-SVM
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; Rebot 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

WA-L2: Video Object Segmentation and Tracking II

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 STEREOGRAPHIC 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; Uğur 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

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

WA-P2: Image and Video Filtering II

WA-P2.1: A LINEAR-TIME TWO-SCAN LABELING ALGORITHM
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, Benoît 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 Kominiarzuk, 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

WA-P3: H.264 Video Coding II

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 Martinez-Enríquez, Manuel de-Frutos-López, Jose Carlos Pujol-Alcolado, Fernando Diaz-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

WA-P4: Object Recognition I / Interpolation and Superresolution

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 Belaid, Abdel Belaid, 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

WA-P5.1: IMAGE RESOLUTION ENHANCEMENT USING WAVELET DOMAIN HIDDEN MARKOV TREE AND COEFFICIENT SIGN ESTIMATION
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

WA-P5.10: SIMULTANEOUS ESTIMATION OF SUPER-RESOLVED IMAGE AND 3D INFORMATION USING MULTIPLE STEREO-PAIR IMAGES
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

WA-P5.12: A NOVEL TECHNIQUE TO MODEL THE VARIATION OF THE INTRINSIC PARAMETERS OF AN AUTOMATIC ZOOM CAMERA USING ADAPTIVE DELAUNAY MESHES OVER MOVING LEAST-SQUARES SURFACES
Michel Sarkis, Christian Senft, Klaus Diepold, Munich University of Technology (TUM), Germany

WA-P6: Geosciences and Remote Sensing II

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

WA-P7: Security V: Watermarking

WA-P7.1: BLIND ERROR-FREE DETECTION OF TRANSFORM-DOMAIN WATERMARKS
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
WA-P8.1: CONSTRAINED NONLINEAR ESTIMATION OF FMRI HEMODYNAMIC RESPONSE PARAMETERS
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

WP-L1: Soft Computing in Image Processing: Recent Advances

WP-L1.1: A NOVEL IMAGE RE-INDEXING BY SELF ORGANIZING MOTOR MAPS
Sebastiano Battiato, Francesco Rundo, Filippo Stano, University of Catania, Italy

WP-L1.2: ON CLUSTER VALIDITY INDEXES IN FUZZY AND HARD CLUSTERING ALGORITHMS FOR IMAGESEGMENTATION
Moumen El-Melegy, Assiut University, Egypt; Ennumer 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
WP-L1.8: A MACHINE LEARNING FRAMEWORK FOR ADAPTIVE COMBINATION OF SIGNAL
DENOISING METHODS
   David Hammond, Eero Simoncelli, New York University, United States

WP-L2: Image and Video Segmentation VI

WP-L2.1: RETINAL VESSEL DETECTION USING SELF-MATCHED FILTERING
   Nai-Xiang Lian, Vitali Zagorodnov, Yap-Peng Tan, Nanyang Technological University, Singapore

WP-L2.2: EDGE SENSITIVE VARIATIONAL IMAGE THRESHOLDING
   Nilanjan Ray, Baidya Saha, University of Alberta, Canada

WP-L2.3: A GENERAL TWO-DIMENSIONAL HIDDEN MARKOV MODEL AND ITS APPLICATION
IN IMAGE CLASSIFICATION
   Xiang Ma, Dan Schonfeld, Ashfaq Khokhar, University of Illinois at Chicago, United States

WP-L2.4: STRUCTURAL IMAGE SEGMENTATION WITH INTERACTIVE MODEL GENERATION
   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 MATING 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

WP-L3: Video Coding III

WP-L3.1: NON-SEPARABLE WAVELET-LIKE LIFTING STRUCTURE FOR IMAGE AND VIDEO
COMPRESSION WITH ALIASING SUPPRESSION
   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 GENERALIZED 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, Xiaqin 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, Aisyh 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. Wolfé, 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 Tsafarlis, Ramandeep Ahuja, Derek Shiell, Aggelos Katsaggelos, Northwestern University, United States

WP-P2.8: EFFECTIVE DENOISING OF 2D GEL PROTEOMICS IMAGES USING CONTURLETS
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 Il 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 Fagooonee, 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
Jiangbo Lu, University of Leuven / Multimedia Group, IMEC, Belgium; Gauthier Lafruit, Multimedia Group, IMEC, Belgium; Francky Catthoor, University of Leuven / Multimedia Group, IMEC, Belgium

WP-P8.12: AN IMAGE-BASED RENDERING (IBR) APPROACH FOR REALISTIC STEREO VIEW SYNTHESIS OF TV BROADCAST BASED ON STRUCTURE FROM MOTION
Sebastian Knorr, Thomas Sikora, Technische Universität Berlin, Germany