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Technical Program of ICPR2012

Monday, November 12

MoPSAT1	Main Hall
Poster Shotgun (01): VR (Regular Session)	
14:00-14:30	MoPSAT1.1
<i>Head Posture Detection Using Skin and Hair Information</i> , pp. 1-4. Ugurlu, Yucel (Aoyama Gakuin Univ.)	
14:00-14:30	MoPSAT1.3
<i>Simultaneous Affine Registration of Multiple Shapes</i> , pp. 9-12. Domokos, Csaba (Univ. of Szeged), Kato, Zoltan (Univ. of Szeged)	
14:00-14:30	MoPSAT1.4
<i>Appearance Control for Human Material Perception Manipulation</i> , pp. 13-16. Amano, Toshiyuki (Yamagata Univ.), Komura, Kenichi (Faculty of Engineering, Yamagata Univ.), Sasabuchi, Takashi (Faculty of Engineering, Yamagata Univ.), Nakano, Shota (Faculty of Engineering, Yamagata Univ.), Yamashita, Shunya (Faculty of Engineering, Yamagata Univ.)	
14:00-14:30	MoPSAT1.5
<i>Bone Suppression in Chest Radiographs by Means of Anatomically Specific Multiple Massive-Training ANNs</i> , pp. 17-20. Chen, Sheng (Univ. of Shanghai for Science and Tech.), Suzuki, Kenji (The Univ. of Chicago)	
14:00-14:30	MoPSAT1.6
<i>Seeded Segmentation Based on Object Homogeneity</i> , pp. 21-24. Malmberg, Filip (Uppsala Univ.), Strand, Robin (Uppsala Univ.), Nordenskjöld, Richard (Uppsala Univ. Hospital), Kullberg, Joel (Uppsala Univ.)	
14:00-14:30	MoPSAT1.7
<i>Self-Training with Unlabeled Regions for NBI Image Recognition</i> , pp. 25-28. Takeda, Takahishi (Hiroshima Univ.), Tamaki, Toru (Hiroshima Univ.), Raychev, Bisser (Hiroshima Univ.), Kaneda, Kazufumi (Hiroshima Univ.), Kurita, Takio (Hiroshima Univ.), Yoshida, Shigeto (Hiroshima Univ. Hospital), Takemura, Yoshito (Hiroshima Univ.), Onji, Keiichi (Hiroshima Univ.), Miyaki, Rie (Hiroshima Univ.), Tanaka, Shinji (Hiroshima Univ. Hospital)	
14:00-14:30	MoPSAT1.8
<i>Potts Compound Markovian Texture Model</i> , pp. 29-32. Haindl, Michael (Inst. of Information Theory and Automation), Remes, Vaclav (Inst. of Information Theory and Automation of the ASCR), Havlicek, Vojtech (Inst. of Information Theory and Automation)	
14:00-14:30	MoPSAT1.9
<i>HEp-2 Staining Pattern Classification</i> , pp. 33-36. Strandmark, Petter (Lund Univ.), Ulén, Johannes (Lund Univ.), Kahl, Fredrik (Lund Univ.)	
14:00-14:30	MoPSAT1.10
<i>Online ICP Forecast for Patients with Traumatic Brain Injury</i> , pp. 37-40. Zhang, Feng (Inst. for Infocomm Res.), Feng, Mengling (Inst. for Infocomm Res.), Loy, Liang Yu (Inst. for Infocomm Res.), Zhang, Zhuo (Institute of Infocomm Res.), Guan, Cuntai (Inst. for Infocomm Res.)	
14:00-14:30	MoPSAT1.11

Quantification of Age-Related Brain Cortex Change Using 3D Shape Analysis, pp. 41-44.

Elmakib, Ahmed (Univ. of Louisville), Nitzken, Matthew (Univ. of Louisville), Casanova, Manuel (Univ. of Louisville), HeYeon, Park (Univ. of Louisville), Gimelfarb, Georgy (Univ. of Auckland), El-Baz, Ayman (Univ. of Louisville)

14:00-14:30 MoPSAT1.12

Ulcer Detection in Wireless Capsule Endoscopy Images, pp. 45-48.

Yu, Le Cheng (Sun Yat-sen Univ.), Yuen, Pong C (Hong Kong Baptist Univ.), Lai, Jian-huang (Sun Yat-sen Univ.)

14:00-14:30 MoPSAT1.13

Efficient Optic Cup Localization Based on Superpixel Classification for Glaucoma Diagnosis in Digital Fundus Images, pp. 49-52.

Xu, Yanwu (Inst. for Infocomm Res. A-STAR), Liu, Jiang, Jimmy (Inst. for Infocomm Res. A-STAR), Cheng, Jun (Inst. for Infocomm Res.), Yin, Fengshou (Inst. for Infocomm Res.), Tan, Ngan-Meng (Inst. for Infocomm Res.), Wong, Wing Kee Damon (Inst. for Infocomm Res.), Cheng, Ching Yu (Singapore Eye Res. Inst.), Tham, Yih Chung (Singapore Eye Res. Inst.), Wong, Tien Yin (Singapore Eye Res. Inst.)

14:00-14:30 MoPSAT1.14

Peripapillary Atrophy Detection by Biologically Inspired Feature, pp. 53-56.

Cheng, Jun (Inst. for Infocomm Res.), Liu, Jiang, Jimmy (Inst. for Infocomm Res. A-STAR), Wong, Wing Kee Damon (Inst. for Infocomm Res.), Tan, Ngan-Meng (Inst. for Infocomm Res.), Cheung, Carol (Singapore Eye Res. Inst.), Baskaran, Mani (Singapore Eye Res. Inst.), Wong, Tien Yin (Singapore Eye Res. Inst.), Saw, Seang Mei (National Univ. of Singapore)

14:00-14:30 MoPSAT1.15

Shading Derivation from an Unspecified Object for Augmented Reality, pp. 57-60.

Yao, Yasuhiro (Nippon Telegraph and Telephone Corp.), Kawamura, Harumi (Nippon Telegraph and Telephone Corp.), Kojima, Akira (Nippon Telegraph and Telephone Corp.)

14:00-14:30 MoPSAT1.16

Automated Classification of Local Patches in Colon Histopathology, pp. 61-64.

Kalkan, Habil (Suleyman Demirel Univ.), Nap, Marius (Atrium Medical Center), Duin, Robert (TU Delft), Loog, Marco (Delft Univ. of Tech. / Univ. of Copenhagen)

14:00-14:30 MoPSAT1.17

Probabilistic Keyboard Adaptable to User and Operating Style Based on Syllable HMMs, pp. 65-68.

Hagiya, Toshiyuki (KDDI R&D Lab. Inc.), Kato, Tsuneo (KDDI R&D Lab. Inc.)

14:00-14:30 MoPSAT1.18

Semi-Automatic Tracking of Markers in Facial Palsy, pp. 69-72.

Limbeck, Philip (Vienna Univ. of Tech.), Kropatsch, Walter (Vienna Univ. of Tech.), Haxhimusa, Yil (Vienna Univ. of Tech.)

14:00-14:30 MoPSAT1.19

Detecting the Optic Cup Excavation in Retinal Fundus Images by Automatic Detection of Vessel Kinking, pp. 73-76.

Wong, Wing Kee Damon (Inst. for Infocomm Res.), Liu, Jiang, Jimmy (Inst. for Infocomm Res. A-STAR), Tan, Ngan-Meng (Inst. for Infocomm Res.), Yin, Fengshou (Inst. for Infocomm Res.), Lee, Beng-Hai (Inst. for Infocomm Res.), Tham, Yih Chung (Singapore Eye Res. Inst.), Cheung, Carol (Singapore Eye Res. Inst.), Wong, Tien Yin (Singapore Eye Res. Inst.)

14:00-14:30	MoPSAT1.20	<i>A Novel CAD System for Analyzing Cardiac First-Pass MR Images</i> , pp. 77-80. Khalifa, Fahmi (Univ. of Louisville), Beache, Garth (Univ. of Louisville), Gimelfarb, Georgy (Univ. of Auckland), El-Baz, Ayman (Univ. of Louisville)	14:00-14:30	MoPSAT1.31	<i>A Mumford-Shah Functional Based Variational Model with Contour, Shape, and Probability Prior Information for Prostate Segmentation</i> , pp. 121-124. Ghose, Soumya (Univ. de Bourgogne), Mitra, Jhimli (Univ. de Bourgogne), Oliver, Arnau (Univ. of Girona), Martí, Robert (Univ. of Girona), Llado, Xavier (Univ. of Girona), Freixenet, Jordi (Univ. of Girona), Vilanova, Joan C. (Girona Magnetic Res. Center), Comet, Josep (Hospital Dr. Josep Trueta), SIDIBE, DESIRE (Univ. de Bourgogne), Meriaudeau, Fabrice (LE2I)
14:00-14:30	MoPSAT1.21	<i>Rectangular Target Extraction for Mobile Augmented Reality Applications</i> , pp. 81-84. Hartl, Andreas Daniel (Graz Tech. Univ. Austria), Reitmayr, Gerhard (Graz Univ. of Tech.)	14:00-14:30	MoPSAT1.32	<i>Graph Cut Energy Minimization in a Probabilistic Learning Framework for 3D Prostate Segmentation in MRI</i> , pp. 125-128. Ghose, Soumya (Univ. de Bourgogne), Mitra, Jhimli (Univ. de Bourgogne), Oliver, Arnau (Univ. of Girona), Martí, Robert (Univ. of Girona), Llado, Xavier (Univ. of Girona), Freixenet, Jordi (Univ. of Girona), Vilanova, Joan C. (Girona Magnetic Res. Center), SIDIBE, DESIRE (Univ. de Bourgogne), Meriaudeau, Fabrice (LE2I)
14:00-14:30	MoPSAT1.22	<i>Calibration-Free Projector-Camera System for Spatial Augmented Reality on Planar Surfaces</i> , pp. 85-88. Nakamura, Takayuki (Keio Univ.), de Sorbier, Francois (Keio Univ.), Martedi, Sandy (Keio Univ.), Saito, Hideo (Keio Univ.)	14:00-14:30	MoPSAT1.33	<i>Multifractal Feature Descriptor for Grading Hepatocellular Carcinoma</i> , pp. 129-132. Atupelage, Chamidu (Tokyo Inst. of Tech.), Nagahashi, Hiroshi (Tokyo Inst. of Tech.), Yamaguchi, Masahiro (Tokyo Inst. of Tech.), Abe, Tokiya (Keio Univ.), Hashiguchi, Akinori (Keio Univ.), Sakamoto, Michie (Keio Univ.)
14:00-14:30	MoPSAT1.23	<i>MRI Segmentation of Brain Tissue Based on Spatial Prior and Neighboring Pixels Affinities</i> , pp. 89-92. Zhang, Zhanpeng (Shenzhen Inst. of Advanced Tech. Chinese Acad. Sc), Zhu, Qingsong (Shenzhen Inst. of Advanced Tech. Chinese Acad. Sc), Xie, Yaoqin (Shenzhen Inst. of Advanced Tech. Chinese Acad. of S)	14:00-14:30	MoPSAT1.34	<i>Watershed Merge Tree Classification for Electron Microscopy Image Segmentation</i> , pp. 133-136. Liu, Ting (Univ. of Utah), Jurrus, Elizabeth (Univ. of Utah), Seyedhosseini Tarzjani, Seyed Mojtaba (Univ. of Utah), Ellisman, Mark (Univ. of California, San Diego), Tasdizen, Tolga (Univ. of Utah)
14:00-14:30	MoPSAT1.24	<i>A Non-Rigid Registration Method for Medical Volume Data Using 3D Phase-Only Correlation</i> , pp. 93-96. Tajima, Yuichiro (Tohoku Univ.), Ito, Koichi (Tohoku Univ.), Aoki, Takafumi (Tohoku Univ.)	14:00-14:30	MoPSAT1.35	<i>Diffusion-Driven High-Order Matching of Partial Deformable Shapes</i> , pp. 137-140. Hou, Tingbo (Stony Brook Univ.), Zhong, Ming (Stony Brook Univ.), Qin, Hong (Stony Brook Univ.)
14:00-14:30	MoPSAT1.25	<i>Mixed-Reality Snapshot System Using Environmental Depth Sensors</i> , pp. 97-100. Tsuru, Hiroyoshi (Univ. of Tsukuba), Kitahara, Itaru (Univ. of Tsukuba), Ohta, Yuichi (Univ. of Tsukuba)	14:00-14:30	MoPSAT1.36	<i>Depth-Wise Image inpainting</i> , pp. 141-144. Mirkamali, Seyedseid (Univ. of Mysore), Nagabhushan, P. (Univ. of Mysore)
14:00-14:30	MoPSAT1.26	<i>Harnessing Self-Similarity for Reconstruction of Large Missing Regions in 3D Models</i> , pp. 101-104. Sahay, Pratyush (Indian Inst. of Tech. Madras), Ambasamudram, Rajagopalan (Indian Inst. of Tech. Madras)	14:00-14:30	MoPSAT1.37	<i>An Efficient, Bolus-Stage Based Method for Motion Correction in Perfusion Weighted MRI</i> , pp. 145-148. Gautam, Rohit (IIIT Hyderabad), Sivaswamy, Jayanthi (IIIT Hyderabad), Varma, Ravi (KIMS Hospital, Hyderabad)
14:00-14:30	MoPSAT1.27	<i>Interactive Classification of Lung Tissue in CT Scans by Combining Prior and Interactively Obtained Training Data: A Simulation Study</i> , pp. 105-108. Kockelkorn, Thessa Theresia Johanna Petronella (UMC Utrecht), Ramos, Rui (Inst. de Engenharia Biomédica, Faculdade de Engenharia da Un), Ramos, José (Inst. de Engenharia Biomédica, Faculdade de Engenharia da Un), Sánchez, Clara I. (Diagnostic Image Analysis Group, Radboud Univ. Nijmegen Med), de Jong, Pim A. (Department of Radiology, UMC Utrecht), Schaefer-Prokop, Cornelia (Department of Radiology, Meander Medical Centre, Amersfoort), Grutters, Jan C. (Department of Pulmonology, St Antonius Ziekenhuis Nieuwegein), Viergever, Max A. (Univ. Medical Center Utrecht), van Ginneken, Bram (Univ. Medical Center Utrecht)	14:00-14:30	MoPSAT1.38	<i>A Gamma-Gaussian Mixture Model for Detection of Mitotic Cells in Breast Cancer Histopathology Images</i> , pp. 149-152. Khan, Adnan Mujahid (Univ. of Warwick), El-Daly, Hesham (Univ. Hospital Coventry and Warwickshire), Rajpoot, Nasir (Univ. of Warwick)
14:00-14:30	MoPSAT1.29	<i>A Hierarchical Approach to High-Quality Partial Shape Registration</i> , pp. 113-116. Zhong, Ming (Stony Brook Univ.), Hou, Tingbo (Stony Brook Univ.), Qin, Hong (Stony Brook Univ.)	14:00-14:30	MoPSAT1.39	<i>Using Local Texture Maps of Brain MR Images to Detect Mild Cognitive Impairment</i> , pp. 153-156. Simoes, Rita (Univ. of Twente), Slump, Cornelis (Univ. of Twente), van Cappellen van Walsum, Anne-Marie (Radboud Univ. Nijmegen)
14:00-14:30	MoPSAT1.30	<i>Endoscope 3-D Motion Tracking Using an Aggressive Particle Filtering for Boosting Electromagnetic Guidance Endoscopy</i> , pp. 117-120. Luo, Xiongbiao (Nagoya Univ.), Kitasaka, Takayuki (Aichi Inst. of Tech.), Kensaku, Mori (Nagoya Univ.)	14:00-14:30	MoPSAT1.40	<i>Gesture Recognition Via Depth Difference Distribution</i> , pp. 157-160. Zhang, Peng (Ricoh Software Res. Center (Beijing)), Li, Tao

(Ricoh Software Res. Center (Beijing)), Xiong, Huaixin (Ricoh Software Res. Center (Beijing)), Liang, Lingyan (Ricoh Software Res. Center (Beijing))	
14:00-14:30	MoPSAT1.41
<i>Training Data Selection for Cancer Detection in Multispectral Endoscopy Images</i> , pp. 161-164.	
DINH, Viet Cuong (Delft Univ. of Tech.), Loog, Marco (Delft Univ. of Tech. / Univ. of Copenhagen), Leitner, Raimund (Carinthian Tech. Res. AG), Rajadell, Olga (Inst. of New Imaging Tech.), Duin, Robert (TU Delft)	
14:00-14:30	MoPSAT1.42
<i>Illumination Estimation from Shadow and Incomplete Object Shape Using an RGB-D Camera</i> , pp. 165-169.	
Ikeda, Takuya (Keio Univ.), Oyamada, Yuji (Keio Univ.), Sugimoto, Maki (Keio Univ.), Saito, Hideo (Keio Univ.)	
14:00-14:30	MoPSAT1.43
<i>Multiclass Boosting SVM Using Different Texture Features in HEP-2 Cell Staining Pattern Classification</i> , pp. 170-173.	
Li, Kuan (City Univ. of Hong Kong), Yin, Jianping (National Univ. of Defense Tech.), LU, Zhi (City Univ. of Hong Kong), Kong, Xiangfei (City Univ. of Hong Kong), Zhang, Rui (City Univ. of Hong Kong), Liu, Wenyin (City U of HK)	
14:00-14:30	MoPSAT1.44
<i>Feature Analysis for Automatic Classification of HEP-2 Florescence Patterns : Computer-Aided Diagnosis of Auto-Immune Diseases</i> , pp. 174-177.	
Ghosh, Subarna (SUNY Buffalo), chaudhary, vipin (SUNY Buffalo)	
14:00-14:30	MoPSAT1.45
<i>Tremor Detection Using Motion Filtering and SVM</i> , pp. 178-181.	
Soran, Bilge (Univ. of Washington), Hwang, J.-N. (UW), Lee, Su-In (Univ. of Washington), Shapiro, Linda (Univ. of Washington)	
MoPSAT2	Multi-Purpose Hall
Poster Shotgun (02): SS+DA (Regular Session)	
14:00-14:30	MoPSAT2.1
<i>Fast Smoothed Shock Filtering</i> , pp. 182-185.	
Vacavant, Antoine (Univ. d'Auvergne), Albouy-Kissi, Adélaïde (Univ. d'Auvergne), Menguy, Pierre-Yves (ISIT Lab.), Solomon, Justin (Standford Univ.)	
14:00-14:30	MoPSAT2.2
<i>A Simple and Effective Saliency Detection Approach</i> , pp. 186-189.	
Zhang, Hui (Graduate Univ. of Chinese Acad. of Sciences, Beijing), Wang, Weiqiang (Graduate Univ. of Chinese Acad. of Sciences), Su, GuiPing (Graduate Univ. of Chinese Acad. of Sciences), Lijuan, Duan (Coll. of Computer Science and Tech. Beijing Univ. of Tech.)	
14:00-14:30	MoPSAT2.3
<i>Rectangular Based Binary Image Representation: Theory, Applications, and Dataset Introduction</i> , pp. 190-193.	
Ziaei Nafchi, Hossein (Islamic Azad Univ. Qazvin Branch), Rashidy Kanan, Hamidreza (Islamic Azad Univ. Qazvin Branch)	
14:00-14:30	MoPSAT2.4
<i>Super-Resolution Reconstruction of Video Sequences Based on Wavelet-Domain Spatial and Temporal Processing</i> , pp. 194-197.	
Lee, Chang-Ming (National Chung Cheng Univ.), Lee, Chien-Jung (National Chung Cheng Univ.), Hsieh, Chia-Yung (National Chung Cheng Univ.), Lie, Wen-Nung (National Chung Cheng Univ.)	

14:00-14:30	MoPSAT2.5
<i>An Efficient R-KDE Model for the Segmentation of Dynamic Scenes</i> , pp. 198-201.	
Zhu, Qingsong (Chinese Acad. of Sciences), SONG, Zhan (Shenzhen Inst. of Advanced Tech. CAS/CUHK), Xie, Yaoqin (Shenzhen Inst. of Advanced Tech. Chinese Acad. of S)	
14:00-14:30	MoPSAT2.6
<i>Unsupervised Motion Pattern Learning for Motion Segmentation</i> , pp. 202-205.	
Weber, Markus (DFKI), Liwicki, Marcus (DFKI), Bleser, Gabriele (German Res. Centre for Artificial Intelligence), Stricker, Didier (German Res. Centre for Artificial Intelligence)	
14:00-14:30	MoPSAT2.7
<i>A New No-Reference Stereoscopic Image Quality Assessment Based on Ocular Dominance Theory and Degree of Parallax</i> , pp. 206-209.	
Gu, Ke (Shanghai Jiao Tong Univ.), Zhai, Guangtao (Shanghai Jiao Tong Univ.), YANG, Xiaokang (Shanghai Jiao Tong Univ.), Zhang, Wenjun (Shanghai Jiao Tong Univ.)	
14:00-14:30	MoPSAT2.8
<i>Salient Region Detection Using Local and Global Saliency</i> , pp. 210-213.	
Cheung, Yiu-ming (Hong Kong Baptist Univ.), Peng, Qinmu (Hong Kong Baptist Univ.)	
14:00-14:30	MoPSAT2.9
<i>Bayesian Implementation of a Lagrangian Macroscopic Traffic Flow Model</i> , pp. 214-217.	
Yoon, Ji Won (IBM Res.), Tchraïan, Tigran Tigran (IBM Res. Ireland)	
14:00-14:30	MoPSAT2.10
<i>Human Action Recognition Via Affine Moment Invariants</i> , pp. 218-221.	
Bakheet, Samy (Otto-von-Guericke Univ. Magdeburg), Al-Hamadi, Ayoub (IESK), Michaelis, Bernd (IESK, Otto-von-Guericke Univ. Magdeburg, Germany), Sayed, Usama (Otto-von-Guericke Univ. Magdeburg)	
14:00-14:30	MoPSAT2.11
<i>Terahertz Image Segmentation Based on K-Harmonic-Means Clustering and Statistical Feature Extraction Modeling</i> , pp. 222-225.	
Ayech, Mohamed Walid (Univ. de Sherbrooke), ziou, djemel (Sherbrooke Univ.)	
14:00-14:30	MoPSAT2.12
<i>Perceptually Weighted Non-Negative Matrix Factorization for Blind Single-Channel Music Source Separation</i> , pp. 226-229.	
Kirbiz, Serap (Istanbul Tech. Univ.), Gunsel, Bilge (Univ.)	
14:00-14:30	MoPSAT2.13
<i>Tri-Space and Ranking Based Heterogeneous Similarity Measure for Cross-Media Retrieval</i> , pp. 230-233.	
ling, li (Peking Univ.), Zhai, Xiaohua (Peking Univ.), Peng, Yuxin (Peking Univ.)	
14:00-14:30	MoPSAT2.14
<i>Non-Linear Weighted Averaging for Multimodal Information Fusion by Employing Analytical Network Process</i> , pp. 234-237.	
Yilmaz, Turgay (Middle East Tech. Univ. of Computer Engineering), Yazıcı, Adnan (Middle East Tech. Univ.), Kitsuregawa, Masaru (Univ. of Tokyo, Inst. of Industrial Science, Center for)	
14:00-14:30	MoPSAT2.15
<i>CCTA-Based Region-Wise Segmentation</i> , pp. 238-241.	
Dai, Lingzheng (Nanjing Univ. of Science and Tech.), Li, Junxia	

(Nanjing Univ. of Science and Tech.), Ding, Jundi (Nanjing Univ. of Science and Tech.), Yang, Jian (Nanjing Univ. of Science and Tech.)	
14:00-14:30	MoPSAT2.16
<i>Robust Eye Localization in Video by Combining Eye Detector and Eye Tracker</i> , pp. 242-245.	
Duong, Chi Nhan (Univ. of Science, HCMC), Cap, Pham Dinh Thang (Univ. of Information Tech.), Ngo, Thanh Duc (The Graduate Univ. for Advanced Studies (Sokendai)), Le, Duy-Dinh (National Inst. of Informatics), Le, Hoai Bac (The Univ. of Science, HCMC, Vietnam), Anh Duong, Duc (Univ. of Information Tech.), Satoh, Shin'ichi (National Inst. of Informatics)	
14:00-14:30	MoPSAT2.17
<i>Cross-Modal Topic Correlations for Multimedia Retrieval</i> , pp. 246-249.	
Yu, Jing (Beihang Univ.), Cong, Yonghui (Beihang Univ.), Qin, Zengchang (Beihang Univ.), Wan, Tao (Boston Univ.)	
14:00-14:30	MoPSAT2.18
<i>What Entropy Tells about Man-Made Structures</i> , pp. 250-253.	
Gao, Jiang (Nokia)	
14:00-14:30	MoPSAT2.19
<i>Vocalization Patterns of Dairy Animals to Detect Animal State</i> , pp. 254-257.	
Deshmukh, Om D (IBM Res.), Nitendra, Rajput (IBM), Lathwal, Surender (National Dairy Res. Inst.), Singh, Yajuvendra (National Dairy Res. Inst.)	
14:00-14:30	MoPSAT2.20
<i>Bilateral Filter Evaluation Based on Exponential Kernels</i> , pp. 258-261.	
Al-Ismaeil, Kassem (Univ. of Luxembourg, SnT), Aouada, Djamilia (Univ. of Luxembourg), Ottersten, Bjorn (SnT, Univ. of Luxembourg), Mirbach, Bruno (IEE S.A.)	
14:00-14:30	MoPSAT2.21
<i>Local Tangent Space Based Manifold Entropy for Image Retrieval</i> , pp. 262-265.	
Wang, Yi (Tongji Univ.), Li, Hongyu (Tongji Univ.), Niu, Junyu (Fudan Univ.), Zhang, Lin (Tongji Univ.)	
14:00-14:30	MoPSAT2.22
<i>A Superpixel MRF Approach Using High-Order Likelihood for Moving Object Detection</i> , pp. 266-269.	
Min, Jihong (Agency for Defense Development), Kim, Hyeonwoo (Korea Advanced Inst. of Science and Tech.), Choi, Jongwon (KAIST), Kweon, In So (KAIST)	
14:00-14:30	MoPSAT2.23
<i>Text Detection on Camera Acquired Document Images Using Supervised Classification of Connected Components in Wavelet Domain</i> , pp. 270-273.	
Roy, Udit (Indian Institute of Tech. Rajasthan), Harit, Gaurav (Indian Institute of Tech. Rajasthan)	
14:00-14:30	MoPSAT2.24
<i>Discriminative Normalization Method for Handwritten Chinese Character Recognition</i> , pp. 274-277.	
Zhu, Yuanping (Tianjin Normal Univ.), sun, jun (Fujitsu R&D Center Co., LTD), Naoi, Satoshi (Fujitsu R&D Center Co., LTD)	
14:00-14:30	MoPSAT2.25
<i>Impact of a Codebook Filtering Step on a Galois Lattice Structure for Graphics Recognition</i> , pp. 278-281.	
BOUMAIZA, AMENI (Univ. of Lorraine, LORIA), Tabbone, Salvatore (Univ. de Lorraine-LORIA UMR 7503)	
14:00-14:30	MoPSAT2.26
<i>A Skeleton Based Descriptor for Detecting Text in Real</i>	
<i>Scene Images</i> , pp. 282-285.	
Felhi, Mehdi (Univ. of Lorraine/Océ Print Logic Tech.), Tabbone, Salvatore (Univ. Lorraine), Bonnier, Nicolas (Océ Print Logic Tech.)	
14:00-14:30	MoPSAT2.27
<i>Optimal Data Partition for Semi-Automated Labeling</i> , pp. 286-289.	
Nagy, George (RPI), Lopresti, Daniel (Lehigh Univ.)	
14:00-14:30	MoPSAT2.28
<i>Hierarchical Clustering Model for Pixel-Based Classification of Document Images</i> , pp. 290-293.	
VIEUX, Remi (Lab. CNRS UMR 5800), Domenger, Jean philippe (Lab.)	
14:00-14:30	MoPSAT2.29
<i>Scene Text Detection Using Sparse Stroke Information and MLP</i> , pp. 294-297.	
Roy Chowdhury, Aruni (Heritage Inst. of Tech. Kolkata), Bhattacharya, Ujjwal (Indian Statistical Inst.), Parui, Swapan Kumar (Indian Statistical Inst.)	
14:00-14:30	MoPSAT2.30
<i>Object Recognition in Floor Plans by Graphs of White Connected Components</i> , pp. 298-301.	
Barducci, Alessio (Univ. degli Studi di Firenze), Marinai, Simone (Univ. degli Studi di Firenze)	
14:00-14:30	MoPSAT2.31
<i>Handwritten Arabic Text Recognition Using Deep Belief Networks</i> , pp. 302-305.	
Porwal, Utkarsh (Univ. at Buffalo, State Univ. of New York), Zhou, Yingbo (State Univ. of New York at Buffalo), Govindaraju, Venu (Univ. at Buffalo)	
14:00-14:30	MoPSAT2.32
<i>Extracting Information from Handwritten Content in Census Forms</i> , pp. 306-309.	
Cao, Huaigu (Raytheon BBN Tech.), Subramanian, Krishna (Raytheon BBN Tech.), Peng, Xujun (Raytheon BBN Tech.), Chen, Jinying (Raytheon BBN Tech.), Prasad, Rohit (Raytheon BBN Tech.), Natarajan, P. (BBN Tech.)	
14:00-14:30	MoPSAT2.33
<i>Multilingual Word Spotting in Offline Handwritten Documents</i> , pp. 310-313.	
wshah, safwan (The state Univ. of New York at buffalo), Kumar, Gaurav (State Univ. of New York at Buffalo), Govindaraju, Venu (Univ. at Buffalo)	
14:00-14:30	MoPSAT2.34
<i>Memory Conscious Sketched Symbol Recognition</i> , pp. 314-317.	
Tirkaz, Caglar (Sabanci Univ.), Yanikoglu, Berrin (Sabanci Univ.), Sezgin, Metin (Koc Univ.)	
14:00-14:30	MoPSAT2.35
<i>Document Recognition and Translation System for Unconstrained Arabic Documents</i> , pp. 318-321.	
Cao, Huaigu (Raytheon BBN Tech.), Chen, Jinying (Raytheon BBN Tech.), Devlin, Jacob (Raytheon BBN Tech.), Prasad, Rohit (Raytheon BBN Tech.), Natarajan, P. (BBN Tech.)	
14:00-14:30	MoPSAT2.36
<i>Recognition of Printed Devanagari Text Using BLSTM Neural Network</i> , pp. 322-325.	
Sankaran, Naveen (International Inst. of Information Tech.), Jawahar, C. V. (IIIT)	
14:00-14:30	MoPSAT2.37
<i>Baseline Extraction-Driven Parsing of Handwritten Mathematical Expressions</i> , pp. 326-330.	
Hu, Lei (Rochester Inst. of Tech.), Hart, Kevin (Rochester Inst.	

	of Tech.), Pospesel, Richard (Rochester Inst. of Tech.), Zanibbi, Richard (Rochester Inst. of Tech.)
14:00-14:30	MoPSAT2.38
<i>Robust Stereo Matching for Document Images Using Parameter Selection of Text-Line Extraction</i> , pp. 331-334.	
Afzal, Muhammad Zeshan (Tech. Univ. of Kaiserslautern), Bukhari, Syed Saqib (Tech. Univ. of Kaiserslautern), Krämer, Martin (Tech. Univ. of Kaiserslautern), Shafait, Faisal (German Res. Center for Artificial Intelligence (DFKI)), Breuel, Thomas (Univ. of Kaiserslautern)	
14:00-14:30	MoPSAT2.39
<i>A Robust Hybrid Approach for Text Line Segmentation in Historical Documents</i> , pp. 335-338.	
Clausner, Christian (Univ. of Salford), Antonacopoulos, Apostolos (Univ. of Salford), Pletschacher, Stefan (Univ. of Salford)	
14:00-14:30	MoPSAT2.40
<i>Part-Based Method on Handwritten Texts</i> , pp. 339-342.	
Wang, Song (Kyushu Univ.), Uchida, Seiichi (Kyushu Univ.), Liwicki, Marcus (DFKI)	
14:00-14:30	MoPSAT2.41
<i>Two-Stage Hybrid Binarization Around Fringe Map Based Text Line Segmentation for Document Images</i> , pp. 343-346.	
Jetley, Saumya (Center for Development of Advanced Computing (C-DAC)), Belhe, Swapnil (Center For Development of Advanced Computing (C-DAC)), Koppula, Vijaya Kumar (CMR Coll. of Engineering & Tech. Hyderabad), Negi, Atul (Univ. of Hyderabad)	
14:00-14:30	MoPSAT2.42
<i>Detecting Near-Duplicate Document Images Using Interest Point Matching</i> , pp. 347-350.	
Vitaladevuni, Shiv (Raytheon BBN Tech.), Choi, Fred (Raytheon BBN Tech.), Prasad, Rohit (Raytheon BBN Tech.), Natarajan, P. (BBN Tech.)	
14:00-14:30	MoPSAT2.43
<i>Collecting Historical Font Metrics from Google Books</i> , pp. 351-355.	
LiVolsi, Robert (Rochester Inst. of Tech.), Zanibbi, Richard (Rochester Inst. of Tech.), Bigelow, Charles (Rochester Inst. of Tech.)	
MoAT1	Main Hall
Stereo (Regular Session)	
Chair: Sanfeliu, Alberto -Univ. Pol. de Catalunya	
Co-Chair: Sarkar, Sudeep Univ. of South Florida	
14:30-14:50	MoAT1.1
<i>Binary Stereo Matching</i> , pp. 356-359.	
Zhang, Kang (Tsinghua Univ.), Li, Ji-Yang (Tsinghua Univ.), Li, Yi-Jing (Tsinghua Univ.), Hu, Weidong (Tsinghua Univ.), Sun, Li-Feng (Tsinghua Univ.), Yang, Shi-Qiang (Tsinghua Univ.)	
14:50-15:10	MoAT1.2
<i>Robust Spatiotemporal Stereo for Dynamic Scenes</i> , pp. 360-363.	
Sanchez-Riera, Jordi (INRIA), Cech, Jan (INRIA), Horaud, Radu (INRIA)	
15:10-15:30	MoAT1.3
<i>Sub-Pixel Disparity Search for Binocular Stereo Vision</i> , pp. 364-367.	
Mizukami, Yoshiki (Yamaguchi Univ.), Okada, Koichi (Yamaguchi Univ.), Nomura, Atsushi (Yamaguchi Univ.), Nakanishi, Shinya (Yamaguchi Univ.), Tadamura, Katsumi (Yamaguchi Univ.)	
15:30-15:50	MoAT1.4

<i>Probabilistic Depth Map Fusion for Real-Time Multi-View Stereo</i> , pp. 368-371.	
Duan, Yong (Beijing Inst. of Tech.), Pei, Mingtao (Beijing Inst. of Tech.), Jia, Yunde (Beijing Inst. of Tech.)	
15:50-16:10	MoAT1.5
<i>Stereo Matching with Global Edge Constraint and Graph Cuts</i> , pp. 372-375.	
Zhang, Hong (Beihang Univ.), Cheng, Feiyang (Beihang Univ.), Yuan, Ding (Beihang Univ.), Li, Yuecheng (Beihang Univ.), Sun, Mingui (Univ. of Pittsburgh)	
MoAT2	Multi-Purpose Hall
Image Enhancement (Regular Session)	
Chair: Mori, Greg Simon Fraser Univ.	
Co-Chair: Hsu, Chiou-Ting National Tsing Hua Univ.	
14:30-14:50	MoAT2.1
<i>Color Image Fusion with Extended Joint Sparse Model</i> , pp. 376-379.	
Yang, Bin (South China Univ.), Luo, Jie (South China Univ.), Li, Shutao (Hunan Univ.)	
14:50-15:10	MoAT2.2
<i>An SVD-Based Approach for Ghost Detection and Removal in High Dynamic Range Images</i> , pp. 380-383.	
srikantha, Abhilash (Univ. de Bourgogne), SIDIBE, DESIRE (Univ. de Bourgogne), Meriaudeau, Fabrice (LE2I)	
15:10-15:30	MoAT2.3
<i>An Edge-Preserving Filtering Framework for Visibility Restoration</i> , pp. 384-387.	
Bao, Linchao (City Univ. of Hong Kong), Song, Yibing (City Univ. of HongKong), Yang, Qingxiang (City Univ. of Hong Kong), Ahuja, Narendra (-UIUC)	
15:30-15:50	MoAT2.4
<i>Single Image Dehazing with Optimal Transmission Map</i> , pp. 388-391.	
Lai, Yi-Shuan (National Tsing Hua Univ.), Chen, Yi-Lei (National Tsing Hua Univ.), Hsu, Chiou-Ting (National Tsing Hua Univ.)	
15:50-16:10	MoAT2.5
<i>An Image Fusion Method Based on Region Segmentation and Cauchy Convolution</i> , pp. 392-395.	
Zhang, Yaqiong (Jiangnan Univ.), Wu, Xiaojun (Jiangnan Univ.)	
MoAT3	Room 101+102
Dimensionality Reduction (Regular Session)	
Chair: Kuno, Yoshinori Saitama Univ.	
Co-Chair: Utasi, Ákos MTA-SZTAKI	
14:30-14:50	MoAT3.1
<i>Fractional-Step Max-Min Distance Analysis for Dimension Reduction</i> , pp. 396-400.	
Shao, Guowan (Inst. for Pattern Recognition and Artificial Intelligence, Hua), Sang, Nong (Huazhong Univ. of Science and Tech.)	
14:50-15:10	MoAT3.2
<i>Regularization Parameter Estimation for Spectral Regression Discriminant Analysis Based on Perturbation Theory</i> , pp. 401-404.	
gui, jie (Hefei Inst. of Intelligent Machines, Chinese Acad.), Sun, Zhenan (Inst. of Automation, Chinese Acad. of Sciences.), Tan, Tieniu (casia)	
15:10-15:30	MoAT3.3
<i>Orthogonal Isometric Projection</i> , pp. 405-408.	

Zheng, Yali (Chongqing Univ.), Tang, YuanYan (Univ. of Macao), Fang, Bin (School of Computer Science, Chongqing Univ.), Zhang, Taiping (School of Computer Science, Chongqing Univ.)	
15:30-15:50	MoAT3.4
<i>Non-Negative Sparse Semantic Coding for Text Categorization</i> , pp. 409-412.	
Zheng, Wenbin (Zhejiang Univ.), Qian, Yuntao (Zhejiang Univ.)	
15:50-16:10	MoAT3.5
<i>FRPCA: Fast Robust Principal Component Analysis for Online Observations</i> , pp. 413-416.	
Abdel-Hakim, Alaa E. (Assiut Univ.), El-Saban, Motaz (Microsoft Res.)	

MoAT4	Hall 200
Image and Video Retrieval (Regular Session)	
Chair: Zha, Hongbin	Peking Univ.
Co-Chair: Ogier, Jean-Marc	Univ. de la Rochelle
14:30-14:50	MoAT4.1
<i>Spatial Consistency Based Selective Reranking for Content Based Object Retrieval</i> , pp. 417-420.	
Xiao, Tan (Peking Univ.), Zhang, Chao (Peking Univ.), Zha, Hongbin (Peking Univ.)	
14:50-15:10	MoAT4.2
<i>Real-Time Large-Scale Visual Concept Detection with Linear Classifiers</i> , pp. 421-424.	
Sjöberg, Mats (Aalto Univ. School of Science), Koskela, Markus (Aalto Univ. School of Science), Ishikawa, Satoru (Aalto Univ.), Laaksonen, Jorma (Aalto Univ. School of Science and Tech. (TKK))	
15:10-15:30	MoAT4.3
<i>Mapping High Dimensional Features Onto Hilbert Curve: Applying to Fast Image Retrieval</i> , pp. 425-428.	
Nguyen, Giap (Univ. of La Rochelle), Franco, Patrick (L3i-Univ. of La Rochelle), Mullot, Rémy (Lab. Informatique, Image et Interaction - L3i, Univ.), Ogier, Jean-Marc (Univ. de la Rochelle)	
15:30-15:50	MoAT4.4
<i>Inner Product Tree for Improved Orthogonal Matching Pursuit</i> , pp. 429-432.	
Piro, Paolo (Istituto Italiano di Tecnologia (IIT)), Sona, Diego (Istituto Italiano di Tecnologia (IIT)), Murino, Vittorio (Univ. of Verona)	
15:50-16:10	MoAT4.5
<i>A Structure-Based Video Representation for Web Video Categorization</i> , pp. 433-436.	
Xu, Peng (Delft Univ. of Tech.), Tax, David (Delft Univ. of Tech.), Hanjalic, Alan (Delft Univ. of Tech.)	

MoAT5	Hall 300
Gesture (Regular Session)	
Chair: Chellappa, Rama	Univ. of Maryland
Co-Chair: Sato, Yoichi	Univ. of Tokyo
14:30-14:50	MoAT5.1
<i>Contextual Fisher Kernels for Human Action Recognition</i> , pp. 437-440.	
zhang, zhong (Inst. of Automation, Chinese Acad. of Sciences), Wang, Chunheng (Inst. of Automation Chinese Acad. of Sciences), Xiao, Baihua (Inst. of Automation, Chinese Acad. of Sciences), Zhou, Wen (Inst. of automation, Chinese Acad. of sciences), liu, shuang (Inst. of Automation, Chinese Acad. of Sciences)	

14:50-15:10	MoAT5.2
<i>Articulated Hand Configuration and Rotation Estimation Using Extended Torus Manifold Embedding</i> , pp. 441-444.	
Lee, Chan-Su (Yeungnam Univ.), Chun, SungYong (Yeungnam Univ.), Park, Shin Won (Yeungnam Univ.)	
15:10-15:30	MoAT5.3
<i>Pose Based Activity Recognition Using Multiple Kernel Learning</i> , pp. 445-448.	
Banerjee, Prithviraj (Univ. of Southern California), Nevatia, Ram (USC)	
15:30-15:50	MoAT5.4
<i>Bag-Of-Visual-And-Depth-Words for Gesture Recognition</i> , pp. 449-452.	
Hernández-Vela, Antonio (Univ. de Barcelona), Bautista Martín, Miguel Ángel (Univ. de Barcelona & Computer Vision Center), Perez-Sala, Xavier (UPC - Univ. Pol. de Catalunya), Ponce López, Victor (Univ. of Barcelona), Baro, Xavier (Department of Computer Science, Multimedia and Telecommunication.), Pujol, Oriol (UB), Angulo, Cecilio (Univ. Pol. de Catalunya. BarcelonaTech), Escalera, Sergio (UB)	
15:50-16:10	MoAT5.5
<i>Real-Time and Precise 3-D Hand Posture Estimation Based on Classification Tree Trained with Variations of Appearances</i> , pp. 453-456.	
Miyamoto, Sho (Ritsumeikan Univ.), Matsuo, Tadashi (Ritsumeikan Univ.), Shimada, Nobutaka (Ritsumeikan Univ.), Shirai, Yoshiaki (-Ritsumeikan Univ.)	

MoBT1	Main Hall
Depth Sensing and Processing (Regular Session)	
Chair: Hlavac, Vaclav	Czech Tech. Univ. Faculty of ElectricalEngineering
16:50-17:10	MoBT1.1
<i>Creating Realistic 3D Models from Scanners by Decoupling Geometry and Texture</i> , pp. 457-460.	
Adán Oliver, Antonio (Univ. de Castilla La Mancha), Merchán, Pilar (Univ. de Extremadura), Salamanca, Santiago (Univ. of Extremadura)	
17:10-17:30	MoBT1.2
<i>RoNect: Hand Mounted Depth Sensing Using a Commodity Gaming Sensor</i> , pp. 461-464.	
Reinbacher, Christian (Graz Univ. of Tech.), Ruether, Matthias (Graz Univ. of Tech.), Bischof, Horst (Graz Univ. of Tech.)	
17:30-17:50	MoBT1.3
<i>Easy Depth Sensor Calibration</i> , pp. 465-468.	
Yamazoe, Hirotake (Osaka Univ.), Habe, Hitoshi (Kinki Univ.), Mitsugami, Ikuhisa (Osaka Univ.), Yagi, Yasushi (Osaka Univ.)	
17:50-18:10	MoBT1.4
<i>Dynamic Scene Reconstruction Using Asynchronous Multiple Kinects</i> , pp. 469-472.	
Nakazawa, Mitsuru (Osaka Univ.), Mitsugami, Ikuhisa (Osaka Univ.), Makihara, Yasushi (The Inst.), Nakajima, Hozuma (Osaka Univ.), Yamazoe, Hirotake (Osaka Univ.), Habe, Hitoshi (Kinki Univ.), Yagi, Yasushi (Osaka Univ.)	
18:10-18:30	MoBT1.5
<i>Augmenting Monocular Motion Estimation Using Intermittent 3D Models from Depth Sensors</i> , pp. 473-476.	
MV, Rohith (Univ. of Delaware), Kambhamettu, Chandra (Univ. of Delaware)	
MoBT2	Multi-Purpose Hall
Image Deblurring, Denoising and Filtering (Regular Session)	

Chair: Chen, Yen-wei Co-Chair: Li, Yi	Ritsumeikan Univ. NICTA and ANU
16:50-17:10	MoBT2.1
<i>Denoising Hyperspectral Images Using Spectral Domain Statistics</i> , pp. 477-480.	
Lam, Antony (National Inst. of Informatics), Sato, Imari (National Inst. of Informatics), Sato, Yoichi (Univ. of Tokyo)	
17:10-17:30	MoBT2.2
<i>Robust Kernel Estimation for Single Image Blind Deconvolution</i> , pp. 481-484.	
Wang, Fang (Nanjing Univ. of Science and Tech.), Li, Yi (NICTA and ANU)	
17:30-17:50	MoBT2.3
<i>Morphological Filtering in Shape Spaces: Applications Using Tree-Based Image Representations</i> , pp. 485-488.	
Xu, Yongchao (Univ. Paris-Est, LIGM-A3SI, ESIEE / EPITA Res.), Geraud, Thierry (EPITA Res. and Development Lab. (LRDE), France), Najman, Laurent (Univ. Paris-Est, Lab. d'Informatique Gaspard-Monge,)	
17:50-18:10	MoBT2.4
<i>Fast Gaussian Filtering Algorithm Using Splines</i> , pp. 489-492.	
Imajo, Kentaro (Kyoto Univ.)	
18:10-18:30	MoBT2.5
<i>K-CPD: Learning of Overcomplete Dictionaries for Tensor Sparse Coding</i> , pp. 493-496.	
DUAN, GUIFANG (Ritsumeikan Univ.), Wang, Hongcui (Tianjin Univ.), Zhenyu, Liu (Zhejiang Univ.), Deng, Junping (Ritsumeikan Univ.), Chen, Yen-wei (Ritsumeikan Univ.)	
MoBT3	Room 101+102
Kernel Method (Regular Session)	
Chair: Maeda, Eisaku Co-Chair: Liu, Cheng-Lin	Communication Science Lab. Inst. of Automation, Chinese Acad. of Sciences
16:50-17:10	MoBT3.1
<i>Discriminative Indefinite Kernel Classifier from Pairwise Constraints and Unlabeled Data</i> , pp. 497-500.	
Xue, Hui (Southeast Univ.), Chen, Songcan (Nanjing Univ. of Aeronautics & Astronautics), Huang, Ji-Jian (Southeast Univ.)	
17:10-17:30	MoBT3.2
<i>Clustering Large Datasets with Kernel Methods</i> , pp. 501-504.	
Fausser, Stefan (Univ. of Ulm), Schwenker, Friedhelm (Univ. of Ulm)	
17:30-17:50	MoBT3.3
<i>Learning Kernels from Labels with Ideal Regularization</i> , pp. 505-508.	
Pan, Binbin (Sun Yat-sen Univ.), Lai, Jian-huang (Sun Yat-sen Univ.), Shen, Lixin (Syracuse Univ.)	
17:50-18:10	MoBT3.4
<i>Approximation of Kernel K-Means for Streaming Data</i> , pp. 509-512.	
Havens, Timothy C. (Michigan Tech. Univ.)	
18:10-18:30	MoBT3.5
<i>Partial Least Squares Kernel for Computing Similarities between Video Sequences</i> , pp. 513-516.	
Chandra, Siddhartha (IIIT Hyderabad), Jawahar, C. V. (IIIT)	
MoBT4	Hall 200

Retrieval (Regular Session)	
Chair: Doermann, David Co-Chair: Chaudhuri, Bidyut Baran	Univ. of Maryland Indian Statistical Inst.
16:50-17:10	MoBT4.1
<i>Efficient Incremental Phrase-Based Document Clustering</i> , pp. 517-520.	
Bakr, Ahmad (Univ. of Alexandria, Egypt), Yousri, Noha A. (Univ. of Waterloo, Univ. of Alexandria), Ismail, Mohamed A. (Univ. of Alexandria, Egypt)	
17:10-17:30	MoBT4.2
<i>Multipage Document Retrieval by Textual and Visual Representations</i> , pp. 521-524.	
Rusiñol, Marçal (Univ. Autònoma de Barcelona), Karatzas, Dimosthenis (Univ. Autònoma de Barcelona), Bagdanov, Andrew D. (Univ. of Florence), Lladós, Josep (Computer Vision Center)	
17:30-17:50	MoBT4.3
<i>A Confidence-Based Method for Keyword Spotting in Online Chinese Handwritten Documents</i> , pp. 525-528.	
Zhang, Heng (Inst. Automation, Chinese Acad. of Sciences), Wang, Da-Han (Inst. of Automation, Chinese Acad. of Sciences), Liu, Cheng-Lin (Inst. of Automation, Chinese Acad. of Sciences)	
17:50-18:10	MoBT4.4
<i>Searching Attentive Tasks with Document Analysis Evidences and Dempster-Shafer Theory</i> , pp. 529-532.	
Stamm, Kristin (German Res. Center for Artificial Intelligence), Dengel, Andreas (German Res. Center for Artificial Intelligence (DFKI))	
18:10-18:30	MoBT4.5
<i>Date Field Extraction in Handwritten Documents</i> , pp. 533-536.	
Mandal, Ranju (Indian Statistical Inst.), Roy, Partha Pratim (Univ. François Rabelais), Pal, Umapada (Indian Statistical Inst.)	
MoBT5	Hall 300
Biometrics (Regular Session)	
Chair: González, Jordi Co-Chair: Goldgof, Dmitry	Univ. Autònoma de Barcelona Univ. of South Florida
16:50-17:10	MoBT5.1
<i>Fingerprint Liveness Detection by Local Phase Quantization</i> , pp. 537-540.	
Ghiani, Luca (Department of Electrical and Electronic Engineering - Univ.), Marcialis, Gian Luca (Univ. of Cagliari), Roli, Fabio (Univ. of Cagliari)	
17:10-17:30	MoBT5.2
<i>Facial Age Estimation Using Clustered Multi-Task Support Vector Machine</i> , pp. 541-544.	
Gao, Peter Xiang (Univ. of Waterloo)	
17:30-17:50	MoBT5.3
<i>Complex Gaussian Mixture Model for Fingerprint Minutiae</i> , pp. 545-548.	
Liu, Chongjin (Peking Univ. of Electronics Engineering and Computer), Bian, Junjie (Peking Univ.), Fu, Xiang (Peking Univ. Scie), Feng, Jufu (Peking Univ.)	
17:50-18:10	MoBT5.4
<i>Toward Kinship Verification Using Visual Attributes</i> , pp. 549-552.	
Xia, Siyu (Southeast Univ.), Shao, Ming (Univ. at Buffalo), Fu, Yun (SUNY at Buffalo)	

Human Identification from At-A-Distance Images by Simultaneously Exploiting Iris and Periocular Features, pp. 553-556.

Tan, Chun-Wei (The Hong Kong Pol. Univ.), Kumar, Ajay (The Hong Kong Pol. Univ.)

Tuesday, November 13

TuPSAT1	Main Hall
Poster Shotgun (03): PR+VR+DA (Regular Session)	
08:30-09:00	TuPSAT1.1
<i>Artifact Correction with Robust Statistics for Non-Stationary Intracranial Pressure Signal Monitoring</i> , pp. 557-560.	
Feng, Mengling (Inst. for Infocomm Res.), Loy, Liang Yu (Inst. for Infocomm Res.), Sim, Kelvin (Inst. for Infocomm Res. Singapore), Phua, Clifton (Institute for Infocomm Res.), Zhang, Feng (Inst. for Infocomm Res.), Guan, Cuntai (Inst. for Infocomm Res.)	
08:30-09:00	TuPSAT1.2
<i>Retinal Vessel Segmentation Via Iterative Geodesic Time Transform</i> , pp. 561-564.	
Dai, Baisheng (Harbin Inst. of Tech.), Bu, Wei (Harbin Inst. of Tech.), Wu, Xiangqian (Harbin Inst. of Tech.), Teng, Yan (Harbin Medical Univ.)	
08:30-09:00	TuPSAT1.3
<i>Hand Posture Recognition Using Finger Geometric Feature</i> , pp. 565-568.	
Liu, Liwei (Tsinghua Univ.), Xing, Junliang (Tsinghua Univ.), Ai, Haizhou (Tsinghua Univ. China), Ruan, Xiang (Omron cooperation)	
08:30-09:00	TuPSAT1.4
<i>Adaptive Kernel Learning Based on Centered Alignment for Hierarchical Classification</i> , pp. 569-572.	
Lu, Yanting (Nanjing Univ. of Science and Tech.), Lu, Jianfeng (Nanjing Univ. of Science & Tech.), Yang, Jingyu (Nanjing Univ. of Science and Tech.)	
08:30-09:00	TuPSAT1.5
<i>Transport Mode Detection with Realistic Smartphone Sensor Data</i> , pp. 573-576.	
Widhalm, Peter (Austrian Inst. of Tech.), Nitsche, Philippe (Austrian Inst. of Tech.), Braendle, Norbert (Austrian Inst. of Tech.)	
08:30-09:00	TuPSAT1.6
<i>On Methods for Incorporating Evidences into Posterior Scoring of Hypotheses</i> , pp. 577-580.	
Kovalenko, Dmitry (Univ. at Buffalo, The State Univ. of New York), Srihari, Sargur (Univ. at Buffalo, The State Univ. of New York)	
08:30-09:00	TuPSAT1.7
<i>Large-Scale Image Classification Using Supervised Spatial Encoder</i> , pp. 581-584.	
Bespalov, Dmitriy (Drexel Univ.), Qi, Yanjun (NEC Lab. America), Bai, Bing (NEC Lab. America), Shokoufandeh, Ali (Drexel Univ.)	
08:30-09:00	TuPSAT1.8
<i>SampleBoost: Improving Boosting Performance by Destabilizing Weak Learners Based on Weighted Error Analysis</i> , pp. 585-588.	
Abouelenien, Mohamed (Univ. of North Texas), Yuan, Xiaohui (Univ. of North Texas)	
08:30-09:00	TuPSAT1.9
<i>Cluster-Dependent Feature Selection by Multiple Kernel Self-Organizing Map</i> , pp. 589-592.	
Huang, Kuan-Chieh (Acad. Sinica), Lin, Yen-Yu (Acad. Sinica), Cheng, Jie-Zhi (Acad. Sinica)	
08:30-09:00	TuPSAT1.10
<i>Active Shape Model with Random Forest for Facial</i>	

Features Detection, pp. 593-596.

Jiang, Wei (Shanghai Univ.), FANG, YUCHUN (Shanghai Univ.), Zhou, Zhonghua (Shang Hai Univ.), Tan, Ying (Shanghai Univ.)

08:30-09:00	TuPSAT1.11
<i>Combining Video Subsequences for Human Action Recognition</i> , pp. 597-600.	
Onofri, Leonardo (Univ. Campus Bio-Medico di Roma), Soda, Paolo (Univ. Campus Bio-Medico di Roma)	
08:30-09:00	TuPSAT1.12
<i>A Sketch-Based 3D Model Retrieval System</i> , pp. 601-604.	
Ding, Ke (The Chinese Univ. of Hong Kong), Liu, Yunhui (The Chinese Univ. of Hong Kong)	
08:30-09:00	TuPSAT1.13
<i>Optical Flow Based Head Movement and Gesture Analyzer (OHMeGA)</i> , pp. 605-608.	
Martin, Sujitha (Univ. of California, San Diego), Tran, Cuong (Univ. of California at San Diego), Trivedi, Mohan (Univ. of California, San Diego)	
08:30-09:00	TuPSAT1.14
<i>Activity Recognition Based on Semantic Spatial Relation</i> , pp. 609-612.	
Meng, Lingxun (Graduate University of Chinese Acad. of Sciences), Qing, Laiyun (Graduate Univ. of Chinese Acad. of Sciences), Yang, Peng (rutgers Univ.), Miao, Jun (Inst. of Computing Tech. Chinese Acad. of Sciences), Chen, Xilin (Inst. of Computing Tech. Chinese Academy of Sciences), Metaxas, Dimitris (Rutgers, the State Univ. of New)	
08:30-09:00	TuPSAT1.15
<i>Robust Lyric Search Based on Weighted Syllable Confusion Matrix</i> , pp. 613-616.	
Li, Baoxiang (Beijing Univ. of Posts and Telecommunications), Chang, Fengxiang (Beijing Univ. of Posts and Telecommunications), Wang, Qiang (Beijing Univ. of Posts and Telecommunications), Liu, Gang (Beijing Univ. of Posts and Telecommunications), Guo, Jun (Beijing Univ. of Posts and Telecommunications)	
08:30-09:00	TuPSAT1.16
<i>Text Location in Complex Images</i> , pp. 617-620.	
Gonzalez, Alvaro (Univ. of Alcalá), Bergasa, Luis M. (Univ. of Alcalá), Yebes Torres, José Javier (Univ. of Alcalá), Bronte, Sebastian (Univ. de Alcalá)	
08:30-09:00	TuPSAT1.17
<i>A Character Recognition Method in Natural Scene Images</i> , pp. 621-624.	
Gonzalez, Alvaro (Univ. of Alcalá), Bergasa, Luis M. (Univ. of Alcalá), Yebes Torres, José Javier (Univ. of Alcalá), Bronte, Sebastian (Univ. de Alcalá)	
08:30-09:00	TuPSAT1.18
<i>Business Email Classification Using Incremental Subspace Learning</i> , pp. 625-628.	
Li, Min (IBM China Res.), Park, Youngja (IBM T.J. Watson Res.), Ma, Rui (IBM Res. - China), Huang, He Yuan (IBM)	
08:30-09:00	TuPSAT1.19
<i>A Discriminative Linear Regression Approach to OCR Adaptation</i> , pp. 629-632.	
Du, Jun (Microsoft Res. Asia), Huo, Qiang (Microsoft Res. Asia)	
08:30-09:00	TuPSAT1.20
<i>A Component-Tree Based Method for User-Intention Guided Text Extraction</i> , pp. 633-636.	
Sun, Lei (Univ. of Science and Tech. of China, Hefei, China), Huo, Qiang (Microsoft Res. Asia)	
08:30-09:00	TuPSAT1.21

Document Image Matching Using Probabilistic Graphical Models, pp. 637-640.

Liu, Li (East China Normal Univ.), Lu, Yue (East China Normal Univ.), Suen, Ching Y (Concordia Univ.)

08:30-09:00 TuPSAT1.22

A Novel Scheme of Orientation and Scale Mapped RDC (OS-RDC) to Improve Compression in Document Images Ensuring Quality Preservation, pp. 641-644.

DAS, APURBA (HCL Tech.), Rajagopal, Remya (HCL Tech.)

08:30-09:00 TuPSAT1.23

Automatic Content Recognition of Teaching Boards in the Tableau Platform, pp. 645-648.

Silva, Gabriel de França Pereira e (Univ. Federal de Pernambuco), Lins, Rafael Dueire (Univ. Federal de Pernambuco)

08:30-09:00 TuPSAT1.24

On the Performance of Decapod's Digital Font Reconstruction, pp. 649-652.

Al-Khaffaf, Hasan S. M. (Tech. Univ. Kaiserslautern), Shafait, Faisal (German Res. Center for Artificial Intelligence (DFKI)), Cutter, Michael (Univ. of California at Santa Cruz), Breuel, Thomas (Univ. of Kaiserslautern)

08:30-09:00 TuPSAT1.25

Structured Document Classification by Matching Local Salient Features, pp. 653-656.

Chen, Siyuan (Fujitsu R&D Center Co., LTD), He, Yuan (Fujitsu R&D Center Co., LTD), sun, jun (Fujitsu R&D Center Co., LTD), Naoi, Satoshi (Fujitsu R&D Center Co., LTD)

08:30-09:00 TuPSAT1.26

Cascaded Heterogeneous Convolutional Neural Networks for Handwritten Digit Recognition, pp. 657-660.

Wu, Chunpeng (Fujitsu R&D Center Co., LTD), Fan, Wei (Fujitsu R&D Center Co., LTD), He, Yuan (Fujitsu R&D Center Co., LTD), sun, jun (Fujitsu R&D Center Co., LTD), Naoi, Satoshi (Fujitsu R&D Center Co., LTD)

08:30-09:00 TuPSAT1.27

The Dataset System of Economic Dispute Handwritten (DSEDH) Based on Stroke Shape and Structure Features, pp. 661-664.

Tan, Jun (Sun Yat-Sen Univ.), Lai, Jian-huang (Sun Yat-sen Univ.), Zuo, Xiao-Xiong (Public Security of Yuexiu)

08:30-09:00 TuPSAT1.28

A Novel Low Complexity TV Video OCR System, pp. 665-668.

Chattopadhyay, Tanushyam (Tata Consultancy Services), Chaudhuri, Bidyut Baran (Indian Statistical Inst.), Jain, Ruchika (Tata Consultancy Services)

08:30-09:00 TuPSAT1.29

Symbol Spotting for Technical Documents : An Efficient Template-Matching Approach, pp. 669-672.

Weber, Jonathan (Univ. de Lorraine/LORIA), Tabbone, Salvatore (Univ. de Lorraine-LORIA UMR 7503)

08:30-09:00 TuPSAT1.30

A New Iterative-Midpoint-Method for Video Character Gap Filling, pp. 673-676.

Palaiahnakote, Shivakumara (National Univ. of Singapore), Bei Hong, Ding (National Univ. of Singapore), Zhao, Danni (National Univ. of Singapore), Tan, Chew-Lim (National Univ. of Singapore), Pal, Umapada (Indian Statistical Inst.)

08:30-09:00 TuPSAT1.31

A Study on Three Dimensional Rotation-Free Character Recognition and Rotation Angle Estimation of Characters, pp. 677-680.

Narita, Ryo (Mie Univ.), Ohshima, Wataru (Mie Univ.),

Wakabayashi, Tetsushi (Mie Univ.), Kimura, Fumitaka (Mie Univ.)

08:30-09:00 TuPSAT1.32

Scene Text Detection Via Stroke Width, pp. 681-684.

Li, Yao (Dalian Univ. of Tech.), Lu, Hu-chuan (Dalian Univ. of Tech.)

08:30-09:00 TuPSAT1.33

A Character Degradation Model for Grayscale Ancient Document Images, pp. 685-688.

KIEU, Van Cuong (Lab. Bordelais de Recherche en Informatique-Lab.), Visani, Muriel (Univ. of La Rochelle), Journet, Nicholas (Lab. Bordelais de Recherche en Informatique -Lab.), Domenger, Jean philippe (Lab.), Mullot, Rémy (Lab. Informatique, Image et Interaction - L3i, Univ.)

08:30-09:00 TuPSAT1.34

Text/graphic Separation Using a Sparse Representation with Multi-Learned Dictionaries, pp. 689-692.

DO, Thanh Ha (Univ. Nancy 2 - LORIA), Tabbone, Salvatore (Univ. de Lorraine-LORIA UMR 7503), Ramos Terrades, Oriol (Univ. Autònoma de Barcelona - Computer Vision Centre)

08:30-09:00 TuPSAT1.35

Accurate Junction Detection and Reconstruction in Line-Drawing Images, pp. 693-696.

Pham, The-Anh (François Rabelais University), Delalandre, Mathieu (Lab. of Computer Science (LI), François Rabelais Univ.), Barrat, Sabine (Univ. of Nancy 2), Ramel, Jean-Yves (Univ. François Rabelais de Tours)

08:30-09:00 TuPSAT1.36

Analyzing the Information Entropy of States to Optimize the Number of States in an HMM-Based Off-Line Handwritten Arabic Word Recognizer, pp. 697-700.

Jiang, Zhiwei (Tsinghua Univ.), Ding, Xiaoqing (Tsinghua Univ.), Peng, Liangrui (Tsinghua Univ.), Liu, Changsong (Tsinghua Univ.)

08:30-09:00 TuPSAT1.37

Long-Short Term Memory Neural Networks Language Modeling for Handwriting Recognition, pp. 701-704.

Frinken, Volkmar (Autonomous Univ. of Barcelona), Zamora-Martinez, Francisco (Univ. CEU-Cardenal Herrera), España-Boquera, Salvador (Univ. Pol. de Valencia), Castro-Bleda, Maria Jose (Univ. Pol. de Valencia), Fischer, Andreas (Univ. of Fribourg), Bunke, Horst (Univ. of Bern)

08:30-09:00 TuPSAT1.40

Combination of Global and Local Baseline-Independent Features for Offline Arabic Handwriting Recognition, pp. 713-716.

Li, Ning (Tsinghua Univ.), Xie, Xudong (Tsinghua Univ.), Liu, Wentao (Tsinghua Univ.), Lam, Kin-Man (The Hong Kong Pol. Univ.)

08:30-09:00 TuPSAT1.41

Scene Character Detection and Recognition Based on Multiple Hypotheses Framework, pp. 717-720.

Huang, Rong (Kyushu Univ.), Oba, Shinpei (Kyushu Univ.), Palaiahnakote, Shivakumara (National Univ. of Singapore), Uchida, Seiichi (Kyushu Univ.)

08:30-09:00 TuPSAT1.42

Robust On-Line Handwritten Object Retrieval Using a Similarity Measure Based on Overlap Area of Circles, pp. 721-724.

Yagi, Tsubasa (Shinshu Univ.), Miyao, Hidetoshi (Shinshu Univ.), Maruyama, Minoru (Shinshu Univ.)

08:30-09:00 TuPSAT1.43

Effective Text Localization in Natural Scene Images with MSER, Geometry-Based Grouping and AdaBoost, pp. 725-728.

	Yin, Xuwang (Univ. of Science and Tech. Beijing), Yin, Xu-Cheng (Univ. of Science and Tech. Beijing), Hao, Hong-Wei (Univ. of Science and Tech. Beijing), Iqbal, Khalid (School of Computer and Communication Engineering, Univ. of S)
08:30-09:00	TuPSAT1.45
	<i>Robust Stereo Correspondence for Documents by Matching Connected Components of Text-Lines with Dynamic Programming</i> , pp. 734-737.
	Krämer, Martin (Tech. Univ. of Kaiserslautern), Afzal, Muhammad Zeshan (Tech. Univ. of Kaiserslautern), Bukhari, Syed Saqib (Tech. Univ. of Kaiserslautern), Shafait, Faisal (German Res. Center for Artificial Intelligence (DFKI)), Breuel, Thomas (Univ. of Kaiserslautern)
08:30-09:00	TuPSAT1.46
	<i>New Features for Complex Arabic Fonts in Cascading Recognition System</i> , pp. 738-741.
	Slimane, Fouad (Univ. of Fribourg, Fribourg, Switzerland), Zayene, Oussama (Div. group, Department of Informatics, Univ. of Fribourg), Kanoun, Slim (ENIS), ALIMI, Adel M. (Univ. of Sfax, ENIS, Sfax, Tunisia), Hennebert, Jean (Univ. of Applied Sciences Western Switzerland), Ingold, Rolf (Univ. of Fribourg)
TuPSAT2	Multi-Purpose Hall
Poster Shotgun (04): CV (Regular Session)	
08:30-09:00	TuPSAT2.1
	<i>Curvature-Driven Volumetric Segmentation of Binary Shapes: An Application to Snow Microstructure Analysis</i> , pp. 742-745.
	Wang, Xi (CNRM-GAME (URA 1357 - CNRS & Météo-France), LIRIS UMR 5205), Gillibert, Luc (CNRM-GAME (URA 1357 - CNRS & Météo-France)), Flin, Frédéric (CNRM-GAME (URA 1357 - CNRS & Météo-France)), Coeurjolly, David (CNRS - Univ. Claude Bernard Lyon 1)
08:30-09:00	TuPSAT2.2
	<i>Acceleration of GAT Correlation for Distortion-Tolerant Image Matching</i> , pp. 746-749.
	Wakahara, Toru (Hosei Univ.), Yamashita, Yukihiko (Tokyo Inst. of Tech.)
08:30-09:00	TuPSAT2.3
	<i>Bilateral Kernel-Based Region Detector</i> , pp. 750-753.
	Cho, Woon (The Univ. of Tennessee), Kim, Sung-Yeol (The University of Tennessee at Knoxville), Koschan, Andreas (the Univ. of Tennessee), Abidi, Mongi (the Univ. of Tennessee)
08:30-09:00	TuPSAT2.4
	<i>A Probabilistic Formulation of the Optical Flow Problem</i> , pp. 754-757.
	Gkamas, Theodosios (Univ. of Strasbourg, LSIT), Chantas, Giannis (Aristotle Univ. of Thessaloniki, Department of Informatics), Nikou, Christophoros (Univ. of Ioannina)
08:30-09:00	TuPSAT2.5
	<i>Camera Calibration from a Single Image Based on Coupled Line Cameras and Rectangle Constraint</i> , pp. 758-762.
	Lee, Joo-Haeng (ETRI)
08:30-09:00	TuPSAT2.6
	<i>Automatic Segmentation Fusing Color and Depth</i> , pp. 763-766.
	Dai, Xiaoyan (Canon Inc)
08:30-09:00	TuPSAT2.7
	<i>Decomposed Contour Prior for Shape Recognition</i> , pp. 767-770.
	Yang, Zhi (SUNY-BUFFALO), Kong, Yu (SUNY at Buffalo), Fu, Yun (Northeastern Univ.)

08:30-09:00	TuPSAT2.8
	<i>A Multi-Task Learning Strategy for Unsupervised Clustering Via Explicitly Separating the Commonality</i> , pp. 771-774.
	Kong, Shu (Zhejiang Univ.), Wang, Donghui (Zhejiang Univ.)
08:30-09:00	TuPSAT2.9
	<i>Estimating the Precision of Under-Water Video-Mosaics</i> , pp. 775-779.
	Michaelsen, Eckart (Fraunhofer IOSB), Scherer-Negenborn, Norbert (FHG-IOSB)
08:30-09:00	TuPSAT2.10
	<i>A Comparison of Local Feature Detectors and Descriptors for Visual Object Categorization by Intra-Class Repeatability and Matching</i> , pp. 780-783.
	Lankinen, Jukka (Lappeenranta Univ. of Tech.), Kangas, Ville (Lappeenranta Univ. of Tech.), Kamarainen, Joni-Kristian (Lappeenranta Univ. of Tech.)
08:30-09:00	TuPSAT2.11
	<i>Estimation of Earthquake Ground Motion by Image Analysis of Sliding Objects Taken with a Fixed Camera</i> , pp. 784-787.
	Yokota, Arimitsu (The Univ. of Electro-Communications), Hamamoto, Takayuki (Tokyo Univ. of Science), Koga, Hisashi (Univ. of Electro-Communications), Watanabe, Toshinori (Univ. of Electro-Communications)
08:30-09:00	TuPSAT2.12
	<i>Depth-Map Merging for Multi-View Stereo with High Resolution Images</i> , pp. 788-791.
	Shen, Shuhan (Inst. of Automation, Chinese Acad. of Sciences)
08:30-09:00	TuPSAT2.13
	<i>The Vectorial Minimum Barrier Distance</i> , pp. 792-795.
	Kårnsås, Andreas (Uppsala Univ. Sweden), Strand, Robin (Uppsala Univ.), Saha, Punam Kumar (Univ. of Iowa)
08:30-09:00	TuPSAT2.14
	<i>3D Point Tracking and Pose Estimation of a Space Object Using Stereo Images</i> , pp. 796-800.
	Oumer, Nassir Workicho (German Aerospace Center (DLR), Inst. of Robotics and Mechatr), Panin, Giorgio (German Aerospace Center (DLR), Inst. of Robotics and Mechatr)
08:30-09:00	TuPSAT2.15
	<i>Seeing through Clutter: Snake Computation with Dynamic Programming for Particle Segmentation</i> , pp. 801-804.
	Ray, Nilanjan (Univ. of Alberta), Acton, Scott (Univ. of Virginia), Zhang, Hong (Univ. of Alberta)
08:30-09:00	TuPSAT2.16
	<i>Segmentation of Occluded Sidewalks in Satellite Images</i> , pp. 805-808.
	Senlet, Turgay (Rutgers, The State Univ. of New Jersey), Elgammal, Ahmed (Rutgers Univ.)
08:30-09:00	TuPSAT2.17
	<i>Face Recognition with Illumination Distinction Description</i> , pp. 809-812.
	Li, Yuelong (Tianjin Pol. Univ.), Feng, Jufu (Peking Univ.), Liu, Chongjin (Peking Univ. of Electronics Engineering and Computer), Fu, Xiang (Peking Univ. Scie)
08:30-09:00	TuPSAT2.18
	<i>Human Detection by Haar-Like Filtering Using Depth Information</i> , pp. 813-816.
	Ikemura, Sho (Chubu University), Fujiyoshi, Hironobu (Chubu Univ.)
08:30-09:00	TuPSAT2.19
	<i>Object Localisation Via Action Recognition</i> , pp. 817-820.

Darby, John (Manchester Metropolitan Univ.), Li, Baihua (Manchester Metropolitan Univ.), Cunningham, Ryan James (Manchester Metropolitan Univ.), Costen, Nicholas Paul (Manchester Metropolitan Univ.)		<i>Enhancing Motion Field with OA-Filter and Alternative Measurement</i> , pp. 870-873.	
08:30-09:00	TuPSAT2.20	Nguyen, Duc Dung (Sungkyunkwan Univ.), Jeon, Jae (Sungkyunkwan Univ. Korea)	08:30-09:00
<i>3D Object Localization Using Single Camera Images</i> , pp. 821-824.		<i>Meeting in the Middle: A Top-Down and Bottom-Up Approach to Detect Pedestrians</i> , pp. 874-877.	TuPSAT2.33
Buchholz, Dirk (TU Braunschweig), Kubus, Daniel (TU Braunschweig), Winkelbach, Simon (Tech. Univ. Braunschweig), Wahl, Friedrich M. (Tech. Univ. of Braunschweig)		Shaukat, Affan (Univ. of Surrey), Gilbert, Andrew (Univ. of Surrey), Windridge, David (Univ. of Surrey), Bowden, Richard (Univ. of Surrey)	
08:30-09:00	TuPSAT2.22	08:30-09:00	TuPSAT2.35
<i>Real-Time Human Object Motion Parameters Estimation from Depth Images</i> , pp. 829-832.		<i>Face Hallucination Via K-Selection Mean Constrained Sparse Representation</i> , pp. 882-885.	
Huang, Chung-Lin (National Tsing-Hua Univ.), Tsao, I-Chung (National Tsing-Hua Univ.)		Huang, Kebin (Wuhan Univ.), Hu, Ruimin (National Engineering Res. Center for Multimedia Software, Wuh), Han, Zhen (Wuhan Univ.), Lu, Tao (Wuhan Univ.), Jiang, Junjun (Wuhan Univ.), Wang, Feng (Huanggang Normal Univ.)	
08:30-09:00	TuPSAT2.24	08:30-09:00	TuPSAT2.36
<i>A Visual Marker for Precise Pose Estimation Based on a Microlens Array</i> , pp. 837-840.		<i>Multisensor Evidence Integration and Optimization in Rail Inspection</i> , pp. 886-889.	
Tanaka, Hideyuki (National Inst. of Advanced Industrial Science and Technology), Sumi, Yasushi (National Inst. of Advanced Industrial Science and Technology), Matsumoto, Yoshio (National Inst. of Advanced Industrial Science and Tech.)		Trinh, Hoang (IBM Res.), Pankanti, Sharath (IBM Res.), Haas, Norman (IBM Res.)	
08:30-09:00	TuPSAT2.25	08:30-09:00	TuPSAT2.37
<i>Camera-Less Articulated Trajectory Reconstruction</i> , pp. 841-844.		<i>Object Segmentation in Multiple Views without Camera Calibration</i> , pp. 890-893.	
zhu, yingying (Univ. of Queensland, CSIRO), Valmadre, Jack (CSIRO), Lucey, Simon (CSIRO)		Liang, Qinghua (Beijing Jiaotong Univ.), Miao, Zhenjiang (Inst. of Information Science, Beijing Jiaotong Univ.)	
08:30-09:00	TuPSAT2.26	08:30-09:00	TuPSAT2.39
<i>Patch Based Saliency Detection Method for 3D Surface Simplification</i> , pp. 845-848.		<i>Fusion of Low-And High-Dimensional Approaches by Trackers Sampling for Generic Human Motion Tracking</i> , pp. 898-901.	
Zhao, Yitian (Aberystwyth Univ.), Liu, Yonghuai (Aberystwyth Univ.)		Liu, Ye, Ye (Key Lab. of Machine Perception (MOE), Peking University, Beijing, Chin), Cui, Jinshi, Jinshi (Key Lab. of Machine Perception (MOE), Peking Univ.), Zhao, Huijing (Peking Univ.), Zha, Hongbin (Peking Univ.)	
08:30-09:00	TuPSAT2.27	08:30-09:00	TuPSAT2.40
<i>An Enhanced EM Algorithm Using Maximum Entropy Distribution As Initial Condition</i> , pp. 849-852.		<i>Vanishing Point Estimation by Spherical Gradient</i> , pp. 902-905.	
xuan, guorong (Tongji Univ.), Shi, Yun Q. (New Jersey Inst. of Tech.), chai, peiqi (tongji Univ.), Sutthiwan, Patchara (New Jersey Inst. of Tech.)		Li, Shigang (Tottori Univ.), Jia, Hanchao (Tottori Univ.)	
08:30-09:00	TuPSAT2.28	08:30-09:00	TuPSAT2.41
<i>Model-Based Extraction of Image Area Descriptors Using a Multi-Scale Attention Operator</i> , pp. 853-856.		<i>Online Transfer Boosting for Object Tracking</i> , pp. 906-909.	
Palenichka, Roman (Univ. of Quebec), Petrou, Maria (Imperial Coll.), Kompatsiaris, Yiannis (CERTH), Lakhssassi, Ahmed (Univ. of Quebec)		Gao, Changxin (Huazhong Univ. of Science and Tech.), Sang, Nong (Huazhong Univ. of Science and Tech.), Huang, Rui (Huazhong Univ. of Science and Tech.)	
08:30-09:00	TuPSAT2.29	08:30-09:00	TuPSAT2.42
<i>Reconstruction of 3D Lines from a Single Axial Catadioptric Image Using Cross-Ratio</i> , pp. 857-860.		<i>Car Make and Model Recognition Combining Global and Local Cues</i> , pp. 910-913.	
Perdigoto, Luis (ISR - Inst. for System and Robotics, Univ.), Araujo, Helder (Univ. of Coimbra)		AbdelMaseeh, Meena (Univ. of Waterloo), Badreldin, Islam (Cairo Univ.), Abdelkader, Mohamed (Port-Said Univ.), El-Saban, Motaz (Microsoft Res.)	
08:30-09:00	TuPSAT2.30	08:30-09:00	TuPSAT2.43
<i>Dense Motion Segmentation of Articulated Objects in Crowds</i> , pp. 861-865.		<i>A Cost Construction Via MSW and Linear Regression for Stereo Matching</i> , pp. 914-917.	
Iwasaki, Masahiro (Panasonic Corp.), Komoto, Ayako (Panasonic Corp.), Nobori, Kunio (Panasonic Corporation)		Liu, Tianliang (Nanjing Univ. of Posts and Telecommunications, Jiangsu Provi), Dai, Xiubin (Nanjing Univ. of Posts and Telecommunications), Huo, Zhiyong (Nanjing Univ. of Posts and Telecommunications), Zhu, Xiuchang (Nanjing Univ. of Posts and Telecommunications), lu, limin (Southeast Univ.)	
08:30-09:00	TuPSAT2.31	08:30-09:00	TuPSAT2.44
<i>Human Pose Tracking by Hierarchical Manifold Searching</i> , pp. 866-869.		<i>Learning a Selectivity-Invariance-Selectivity Feature Extraction Architecture for Images</i> , pp. 918-921.	
Moutzouris, Alexandros (KINGSTON Univ.), Martinez-del-Rincon, Jesus (Kingston Univ.), nebel, Jean-Christophe (Kingston Univ.), Makris, Dimitrios (Kingston Univ.)		Gutmann, Michael Urs (Univ. of Helsinki), Hyvarinen, Aapo (Univ. of Helsinki)	
08:30-09:00	TuPSAT2.32		

08:30-09:00 TuPSAT2.45

Semantic Image Segmentation Using Region Bank, pp. 922-925.

Zou, Wenbin (Univ. Européenne de Bretagne, INSA/IETR/UMRCNRS6164, France), Kpalma, Kidiyo (Univ. Européenne de Bretagne, INSA/IETR/UMR CNRS 6164), Ronsin, Joseph (Univ. Européenne de Bretagne, INSA/IETR/UMR CNRS 6164)

TuAT1 Main Hall

Invited Talk Session-I (Regular Session)

Chair: Bhanu, Bir Univ. of California
Co-Chair: Zha, Hongbin Peking Univ.

09:00-09:40 TuAT1.1

*Pursuit of Low-Dimensional Structures in High-Dimensional Data (Invited Talk)**.

Ma, Yi (Microsoft Res. Asia)

09:40-10:00 TuAT1.2

Structural Signatures for Passenger Vehicle Classification in Video, pp. 926-929.

Thakoor, Ninad (Univ. of California, Riverside), Bhanu, Bir (Univ. of California)

10:00-10:20 TuAT1.3

Measuring and Evaluating the Compactness of Superpixels, pp. 930-934.

Schick, Alexander (Fraunhofer IOSB), Fischer, Mika (Karlsruhe Inst. of Tech.), Stiefelhagen, Rainer (Karlsruhe Inst. of Tech. & Fraunhofer IOSB, Karlsruhe)

10:20-10:40 TuAT1.4

Beyond Bits: Reconstructing Images from Local Binary Descriptors, pp. 935-938.

D'ANGELO, Emmanuel (EPFL), ALAHI, Alexandre (EPFL), VANDERGHEYNST, Pierre (EPFL)

TuAT2 Multi-Purpose Hall

Image Coding, Manipulation, and Watermarking (Regular Session)

Chair: Lee, Gueesang Chonnam National Univ.
Co-Chair: Ikenaga, Takeshi Waseda Univ. Japan

09:00-09:20 TuAT2.1

A Pixel-Domain Mode-Mapping Based SVC-To-AVC Transcoder with Coarse Grain Quality Scalability, pp. 939-942.

Sun, Lei (Waseda Univ. Japan), Liu, Zhenyu (Tsinghua Univ.), Ikenaga, Takeshi (Waseda Univ. Japan)

09:20-09:40 TuAT2.2

Example-Based Contrast Enhancement for Portrait Photograph, pp. 943-946.

Zhang, Xiaoyan (Nanyang Tech. Univ.), Constable, Martin (Nanyang Tech. Univ.), Chan, Kap Luk (-)

09:40-10:00 TuAT2.3

A Novel Integer Transform for Efficient Reversible Watermarking, pp. 947-950.

Gui, Xinlu (Peking Univ.), Li, Xiaolong (Peking Univ.), Yang, Bin (Peking Univ.)

10:00-10:20 TuAT2.4

Local Intensity Compensation Using Sparse Representation, pp. 951-954.

Inoue, Koji (Kurume national Coll. of Tech.), Saito, Hironobu (Univ. of tsukuba), Kuroki, Yoshimitsu (Kurume National Coll. of Tech.)

10:20-10:40 TuAT2.5

RGB and Depth Intra-Frame Cross-Compression for Low Bandwidth 3D Video, pp. 955-958.

Varadarajan, Karthik Mahesh (TU Wien), Zhou, Kai (Inst. of Automation and Control, Vienna Univ. of Technol), Vincze, Markus (TU Wien)

TuAT3 Room 101+102

Feature Selection (Regular Session)

Chair: Kudo, Mineichi Hokkaido Univ.
Co-Chair: Grana, Costantino Univ. degli Studi di Modena e Reggio Emilia

09:00-09:20 TuAT3.1

Sparsity Score: A New Filter Feature Selection Method Based on L1 Graph, pp. 959-962.

Liu, Mingxia (Department of Computer Science and Engineering, Nanjing University of Ae), Sun, Dan (Department of Computer Science and Engineering, Nanjing Univ.), Zhang, Daoqiang (Nanjing Univ. of Aeronautics and Astronautics)

09:20-09:40 TuAT3.2

Adaptive Graph Regularized Nonnegative Matrix Factorization Via Feature Selection, pp. 963-966.

Wang, Jing-Yan (King Abdullah Univ. of Science and Tech.), Almasri, Islam (King Abdullah Univ. of Science and Tech.), Gao, Xin (King Abdullah Univ. of Science and Tech.)

09:40-10:00 TuAT3.3

Cost-Sensitive Feature Selection with Application in Software Defect Prediction, pp. 967-970.

Miao, Linsong (Nanjing Univ. of Aeronautics and Astronautics), Liu, Mingxia (Department of Computer Science and Engineering, Nanjing University of Ae), Zhang, Daoqiang (Nanjing Univ. of Aeronautics and Astronautics)

10:00-10:20 TuAT3.4

Multiple Feature Selection and Fusion Based on Generalized N-Dimensional Independent Component Analysis, pp. 971-974.

Ai, Danni (Ritsumeikan Univ.), DUAN, GUIFANG (Zhejiang Univ.), Han, Xian-Hua (Ritsumeikan Univ.), Chen, Yen-wei (Ritsumeikan Univ.)

10:20-10:40 TuAT3.5

Early Stopping for Mutual Information Based Feature Selection, pp. 975-978.

Beinrucker, Andre (Univ. of Potsdam), Dogan, Ürün (Univ. of Potsdam), Blanchard, Gilles (Univ. of Potsdam)

TuAT4 Hall 200

Search and Retrieval Application (Regular Session)

Chair: Sato, Yoichi Univ. of Tokyo
Co-Chair: Sebe, Nicu Univ. of Trento

09:00-09:20 TuAT4.1

Multi-View Learning with Batch Mode Active Selection for Image Retrieval, pp. 979-982.

Yang, Wenhui (Univ. of Science and Tech. of China), Liu, Guiquan (Univ. of Science and Tech. of China), Zhang, Lei (Univ. of Science and Tech. of China), Chen, Enhong (Univ. of Science and Tech. of China)

09:20-09:40 TuAT4.2

Robust Mobile Spamming Detection Via Graph Patterns, pp. 983-986.

Zhao, Yuhang (Beihang Univ.), Zhang, Zhaoxiang (Beihang Univ.), Wang, Yunhong (Beihang Univ.), Liu, Jianyun (Beihang Univ.)

Univ. School of Computer Science and Engineering)	
09:40-10:00	TuAT4.3
<i>Zombie Survival Optimization: A Swarm Intelligence Algorithm Inspired by Zombie Foraging</i> , pp. 987-990.	
Nguyen, Hoang Thanh (Univ. of California, Riverside), Bhanu, Bir (Univ. of California)	
10:00-10:20	TuAT4.4
<i>Chi-Squared Metric Learning for Nearest Neighbor Classification and Its Analysis</i> , pp. 991-995.	
Noh, Samyeul (Univ. of California, San Diego (UCSD))	
10:20-10:40	TuAT4.5
<i>Integrated Personalized Video Summarization and Retrieval</i> , pp. 996-999.	
Shafeian, Hessamoddin (UC Riverside), Bhanu, Bir (Univ. of California)	
TuAT5	Hall 300
Face (Regular Session)	
Chair: Ji, Qiang	RPI
Co-Chair: Shimada, Nobutaka	Ritsumeikan Univ.
09:00-09:20	TuAT5.1
<i>Local Gaussian Directional Pattern for Face Recognition</i> , pp. 1000-1003.	
Ramirez Rivera, Gerberth Adin (Kyung Hee Univ.), Rojas Castillo, Jorge Antonio (Kyung Hee Univ.), Chae, Oksam (Kyung Hee Univ.)	
09:20-09:40	TuAT5.2
<i>Multi-Subregion Face Recognition Using Coarse-To-Fine Quad-Tree Decomposition</i> , pp. 1004-1007.	
Zhang, Cuicui (Kyoto Univ.), Liang, Xuefeng (Kyoto Univ.), Matsuyama, Takashi (Kyoto Univ.)	
09:40-10:00	TuAT5.3
<i>Head Pose-Free Appearance-Based Gaze Sensing Via Eye Image Synthesis</i> , pp. 1008-1011.	
Lu, Feng (the Univ. of Tokyo), Sugano, Yusuke (The Univ. of Tokyo), Okabe, Takahiro (The Univ. of Tokyo), Sato, Yoichi (Univ. of Tokyo)	
10:00-10:20	TuAT5.4
<i>Robust Multi-Pose Face Tracking by Multi-Stage Tracklet Association</i> , pp. 1012-1016.	
Roth, Markus (Karlsruhe Inst. of Tech.), Bäuml, Martin (Karlsruhe Inst. of Tech.), Nevatia, Ram (USC), Stiefelhagen, Rainer (Karlsruhe Inst. of Tech. & Fraunhofer IOSB, Karlsruhe)	
10:20-10:40	TuAT5.5
<i>Simultaneous Facial Activity Tracking and Recognition</i> , pp. 1017-1020.	
Li, Yongqiang (Harbin Inst. of Tech.), Zhao, Yongping (Harbin Inst. of Tech.), Ji, Qiang (RPI)	
TuBT1	Main Hall
3D Reconstruction (Regular Session)	
Chair: Ahuja, Narendra	-UIUC
Co-Chair: Nixon, Mark	Univ. of Southampton
11:20-11:40	TuBT1.1
<i>Genus Refinement of a Manifold Surface Reconstructed by Sculpting the 3d-Delaunay Triangulation of Structure-From-Motion Points</i> , pp. 1021-1025.	
YU, shuda (Inst. Pascal), Lhuillier, Maxime (Inst. Pascal)	
11:40-12:00	TuBT1.2

<i>A Free Viewpoint 3DTV System Based on Parameterized Variety Model</i> , pp. 1026-1029.	
Sharma, Mansi (Indian Inst. of Tech. Delhi), Chaudhury, Santanu (Indian Inst. of Tech. Delhi), Lall, Brejesh (Indian Inst. of Tech. Delhi)	
12:00-12:20	TuBT1.3
<i>A New Metric for Measuring Image-Based 3D Reconstruction</i> , pp. 1030-1033.	
Zhao, Xu (The State Key Lab. of Virtual Reality Tech. and Syste), Wu, Rui (The State Key Lab. of Virtual Reality Tech. and Syste), Zhou, Zhong (The State Key Lab. of Virtual Reality Tech. and Syste), Wu, Wei (The State Key Lab. of Virtual Reality Tech. and Syste)	
12:20-12:40	TuBT1.4
<i>Stage-Based 3D Scene Reconstruction from Single Image</i> , pp. 1034-1037.	
Liu, Yixian (Queen Mary Univ. of London), Hao, Pengwei (Queen Mary Univ. of London), Izquierdo, Ebroul (Queen Mary, Univ. of London)	
12:40-13:00	TuBT1.5
<i>Towards a Simulation Driven Stereo Vision System</i> , pp. 1038-1042.	
Peris Martorell, Martin (Cyberdyne Inc.), Maki, Atsuto (Toshiba Res. Europe), Martull, Sara (Univ. of Tsukuba), Ohkawa, Yasuhiro (Univ. of Tsukuba), Fukui, Kazuhiro (Univ. of Tsukuba)	
TuBT2	Multi-Purpose Hall
Image and Video Super-Resolution (Regular Session)	
Chair: Satoh, Shin'ichi	National Inst. of Informatics
Co-Chair: Strand, Robin	Uppsala Univ.
11:20-11:40	TuBT2.1
<i>Fusing Soft-Decision-Adaptive and Bicubic Interpolation for Image Super-Resolution</i> , pp. 1043-1046.	
Kang, Xudong (Hunan Univ.), Li, Shutao (Hunan Univ.), Hu, Jianwen (Hunan Univ.)	
11:40-12:00	TuBT2.2
<i>Variational Reconstruction and Restoration for Video Super-Resolution</i> , pp. 1047-1051.	
Salvador, Jordi (Tech.), Rivero Alfonso, Daniel (UPC Barcelona), Kochale, Axel (Tech.), Ruiz-Hidalgo, Javier (Univ. Pol. de Catalunya)	
12:00-12:20	TuBT2.3
<i>Optimized Image Super-Resolution Based on Sparse Representation</i> , pp. 1052-1055.	
Zhu, Yanming (Tianjin Univ.), Jiang, Jianmin (Tianjin Univ.), Li, Kun (Tianjin Univ.)	
12:20-12:40	TuBT2.4
<i>Image Super-Resolution Based on a Novel Edge Sharpness Prior</i> , pp. 1056-1059.	
Yan, Qing (Shanghai Jiao Tong Univ.), xu, yi (Inst. of Image Communication and Information Processing, Sha), YANG, Xiaokang (Shanghai Jiao Tong Univ.), Chen, Kai (Shanghai Jiao Tong Univ.)	
12:40-13:00	TuBT2.5
<i>Web Image-Based Super-Resolution</i> , pp. 1060-1063.	
Lee, Jongho (Korea Inst. of Science and Tech.), Ahn, Sang Chul (Korea Inst. of Science and Tech.), Lim, Hwasup (Korea Inst. of Science and Tech. (KIST)), Kim, Ig-Jae (Korea Inst. of Science and Tech. (KIST)), Kim, Jaewon (Korea Inst. of Science and Tech. (KIST)), Kim, Hyoung-Gon (Korea Inst. of Science and Tech. (KIST))	

TuBT3	Room 101+102
Classification (Regular Session)	
Chair: Kurita, Takio	Hiroshima Univ.
Co-Chair: Tefas, Anastasios	Aristotle Univ. of Thessaloniki
11:20-11:40	TuBT3.1
<i>Term Relevance Dependency Model for Text Classification</i> , pp. 1064-1067.	
Wu, Meng-Sung (Industrial Tech. Res. Inst.), Wang, Hsin-Min (Acad. Sinica)	
11:40-12:00	TuBT3.2
<i>On the Correlation between Genotype and Classifier Diversity</i> , pp. 1068-1071.	
Connolly, Jean-François (École de Tech. supérieure), Granger, Eric (École de Tech. supérieure), Sabourin, R. (École de Tech. supérieure)	
12:00-12:20	TuBT3.3
<i>A Game Theory Inspired, Decentralized, Local Information Based Algorithm for Community Detection in Social Graphs</i> , pp. 1072-1075.	
Narayanan, Ramasuri (IBM Res. India), Yadati, Narahari (Indian Inst. of Science)	
12:20-12:40	TuBT3.4
<i>Exploiting Subclass Information in Support Vector Machines</i> , pp. 1076-1079.	
Orfanidis, Georgios (Aristotle Univ. of Thessaloniki), Tefas, Anastasios (Aristotle Univ. of Thessaloniki)	
12:40-13:00	TuBT3.5
<i>Computing the Graph Edit Distance Using Dominant Sets</i> , pp. 1080-1083.	
Rebagliati, Nicola (Univ. Ca' Foscari Venezia), Solé-Ribalta, Albert (Univ. Rovira i Virgili), Pelillo, Marcello (Ca' Foscari Univ.), Serratos, Francesc (Univ. Rovira i Virgili)	
TuBT4	Hall 200
Human Interaction and Authentication (Regular Session)	
Chair: O'Gorman, Lawrence	Alcatel-Lucent Bell Lab.
Co-Chair: Murase, Hiroshi	Nagoya Univ.
11:20-11:40	TuBT4.1
<i>Multi-Modal Fusion Based on Classifiers Using Reject Options and Markov Fusion Networks</i> , pp. 1084-1087.	
Glodek, Michael (Univ. of Ulm), Schels, Martin (Univ. of Ulm), Palm, Günther (Univ. of Ulm), Schwenker, Friedhelm (Univ. of Ulm)	
11:40-12:00	TuBT4.2
<i>Accuracy of a High-Level, Loss-Tolerant Video Fingerprint for Surveillance Authentication</i> , pp. 1088-1091.	
Ren, Yansong (Alcatel-lucent), O'Gorman, Lawrence (Alcatel-Lucent Bell Lab.)	
12:00-12:20	TuBT4.3
<i>A Machine Learning System for Human-In-The-Loop Video Surveillance</i> , pp. 1092-1095.	
Vural, Ulas (Gebze Inst. of Tech.), Akgul, Yusuf Sinan (Gebze Inst. of Tech.)	
12:20-12:40	TuBT4.4
<i>2D Images Map Warping for Improved User Interaction</i> , pp. 1096-1099.	
Borghesani, Daniele (Univ. degli Studi di Modena e Reggio Emilia), Grana, Costantino (Univ. degli Studi di Modena e Reggio Emilia), Cucchiara, Rita (Univ. degli Studi di Modena e Reggio Emilia)	
12:40-13:00	TuBT4.5
<i>Bi-Modal Authentication in Mobile Environments Using</i>	

Session Variability Modelling, pp. 1100-1103.

Motlicek, Petr (Idiap Res. Inst.), EL SHAFEY, Laurent (Idiap, EPFL), Wallace, Roy (Idiap Res. Inst.), McCool, Christopher Steven (Idiap Res. Inst.), Marcel, Sebastien (IDIAP Res. Inst.)

TuBT5	Hall 300
Face Analysis (Regular Session)	
Chair: Sim, Terence	National Univ. of Singapore
Co-Chair: Morishima, Shigeo	Waseda Univ.
11:20-11:40	TuBT5.1
<i>3D Dynamic Expression Recognition Based on a Novel Deformation Vector Field and Random Forest</i> , pp. 1104-1107.	
Dria, Hassen (LIFL (UMR Lille1/CNRS8022), Univ. de Lille1), Ben Amor, Boulbaba (LIFL UMR 8022), Daoudi, Mohamed (TELECOM Lille1), Srivastava, Anuj (Florida State Univ.), Berretti, Stefano (Univ. of Firenze)	
11:40-12:00	TuBT5.2
<i>Posed and Spontaneous Expression Distinguishment from Infrared Thermal Images</i> , pp. 1108-1111.	
Liu, Zhilei (Univ. of Science and Tech. of China), Wang, Shangfei (Univ. of Science and Tech. of China)	
12:00-12:20	TuBT5.3
<i>Learning Global Cost Function for Face Alignment</i> , pp. 1112-1115.	
Bailly, Kevin (UPMC Paris 6 - CNRS), Milgram, Maurice (UPMC), Phothisane, Philippe (UPMC), Bigorgne, Erwan (Eikeo)	
12:20-12:40	TuBT5.4
<i>A Ranking Model for Face Alignment with Pseudo Census Transform</i> , pp. 1116-1119.	
Gao, Hua (Karlsruhe Inst. of Tech.), Ekenel, Hazim Kemal (Karlsruhe Inst. of Tech.), Stiefelwagen, Rainer (Karlsruhe Inst. of Tech. & Fraunhofer IOSB, Karlsruhe)	
12:40-13:00	TuBT5.5
<i>Audio-Visual Data Association for Face Expression Analysis</i> , pp. 1120-1123.	
Tawari, Ashish (Univ. of California, San Diego), Trivedi, Mohan (Univ. of California, San Diego)	
TuPSBT1	Main Hall
Poster Shotgun (05): PR (Regular Session)	
14:00-14:30	TuPSBT1.1
<i>Emotion Recognition Modeling of Sitting Postures by Using Pressure Sensors and Accelerometers</i> , pp. 1124-1127.	
Shibata, Tatsuya (Tokyo Denki Univ.), Kijima, Yohei (Tokyo Denki Univ.)	
14:00-14:30	TuPSBT1.2
<i>A Combined Method for Finding Best Starting Points for Optimisation in Bernoulli Mixture Models</i> , pp. 1128-1131.	
Frouzesh, Faezeh (Victoria Univ. of Wellington), Pledger, Shirley (Victoria Univ. of Wellington), Hirose, Yuichi (Victoria Univ. of Wellington)	
14:00-14:30	TuPSBT1.3
<i>Road Marking Recognition for Map Generation Using Sparse Tensor Voting</i> , pp. 1132-1135.	
Ishida, Hiroyuki (TOYOTA Central R&D Lab. Inc.), Kidono, Kiyosumi (TOYOTA Central R&D Lab. Inc.), Kojima, Yoshiko (TOYOTA Central R&D Lab. Inc.), Naito, Takashi (TOYOTA Central R&D Lab. Inc.)	
14:00-14:30	TuPSBT1.4
<i>Efficient Feature Selection for Linear Discriminant Analysis</i>	

and Its Application to Face Recognition, pp. 1136-1139.

Lei, Zhen (Inst. of Automation, Chinese Acad. of Sciences),
Liao, Shengcai (Inst. of Automation, Chinese Acad. of
Sciences), Li, Stan Z. (-CASIA)

14:00-14:30 TuPSBT1.5

*PCA Feature Extraction for Change Detection in
Multidimensional Unlabelled Streaming Data*, pp.
1140-1143.

Kuncheva, Ludmila I. (Bangor Univ.), Faithfull, William J
(Bangor Univ.)

14:00-14:30 TuPSBT1.6

Driving Support Based on Behavior Detection of Vehicle,
pp. 1144-1147.

Minoura, Kazuma (Nagoya Univ.), Watanabe, Toyohide
(Nagoya Univ.)

14:00-14:30 TuPSBT1.7

*Audio-Visual Emotion Recognition with Boosted Coupled
HMM*, pp. 1148-1151.

Lu, Kun (Beijing Inst. of Tech.), Jia, Yunde (Beijing Inst. of
Tech.)

14:00-14:30 TuPSBT1.8

*Realtime Object Matching with Robust Dominant
Orientation Templates*, pp. 1152-1155.

Chaoqun, Hong (Xiamen Univ. of Tech.), Jianke, Zhu (Zhejiang
Univ.), Song, Mingli (Zhejiang Univ.), Wang, Yinting (Zhejiang
Univ.)

14:00-14:30 TuPSBT1.9

Does One Rotten Apple Spoil the Whole Barrel?, pp.
1156-1159.

Cheplygina, Veronika (Delft Univ. of Tech.), Tax, David (Delft
Univ. of Tech.), Loog, Marco (Delft Univ. of Tech. / Univ. of
Copenhagen)

14:00-14:30 TuPSBT1.10

*Learning Weighted Features for Human Action
Recognition*, pp. 1160-1163.

Zhou, Wen (Inst. of automation, Chinese Acad. of sciences),
Wang, Chunheng (Inst. of Automation Chinese Acad. of
Sciences), Xiao, Baihua (Inst. of Automation, Chinese Acad. of
Sciences), zhang, zhong (Inst. of Automation, Chinese Acad. of
Sciences), Ma, Long (Inst. of Automation, Chinese Acad. of
Sciences, China)

14:00-14:30 TuPSBT1.11

*Topological Features and Iterative Node Elimination for
Speeding up Subgraph Isomorphism Detection*, pp.
1164-1167.

Dahm, Nicholas (National ICT Australia), Bunke, Horst (Univ. of
Bern), Caelli, Terry (National ICT Australia), Gao, Yongsheng
(Griffith Univ.)

14:00-14:30 TuPSBT1.12

*Active Transfer Learning for Multi-View Head-Pose
Classification*, pp. 1168-1171.

Yan, Yan (Univ. of Trento), Subramanian, Ramanathan (Univ.
of Trento), Lanz, Oswald (Fondazione Bruno Kessler - irst),
Sebe, Nicu (Univ. of Trento)

14:00-14:30 TuPSBT1.13

*Modeling and Identification of Group Motion Via
Compound Evaluation of Positional and Directional Cues*,
pp. 1172-1176.

Yucel, Zeynep (ATR), Miyashita, Takahiro (ATR), Hagita,
Norihito (ATR)

14:00-14:30 TuPSBT1.14

*Nonparametric Online Background Generation for
Surveillance Video*, pp. 1177-1180.

Zhang, Rui (Queen's Univ. Canada), Gong, Weiguo

(Chongqing Univ. China), Yaworski, Andrew (Queen's Univ.),
Greenspan, Michael (Queen's Univ.)

14:00-14:30 TuPSBT1.15

*Dynamical Ensemble Learning with Model Friendly
Classification*, pp. 1181-1184.

Tu, Wenting (East China Normal Univ.), Sun, Shiliang (East
China Normal Univ.)

14:00-14:30 TuPSBT1.16

*Sliced Inverse Regression with Conditional Entropy
Minimization*, pp. 1185-1188.

Hino, Hideitsu (Waseda Univ.), Wakayama, Keigo (Waseda
Univ.), Murata, Noboru (Waseda Univ.)

14:00-14:30 TuPSBT1.17

An Improved Entropy-Based Multiple Kernel Learning, pp.
1189-1192.

Hino, Hideitsu (Waseda Univ.), Ogawa, Tetsuji (Waseda Univ.)

14:00-14:30 TuPSBT1.18

*Transfer Heterogeneous Unlabeled Data for Unsupervised
Clustering*, pp. 1193-1196.

Kong, Shu (Zhejiang Univ.), Wang, Donghui (Zhejiang Univ.)

14:00-14:30 TuPSBT1.19

Effectively Localize Text in Natural Scene Images, pp.
1197-1200.

Liu, Xiaoqian (Graduate Univ. of Chinese Acad. of Sciences),
Lu, Ke (Graduate Univ. of Chinese Acad. of Sciences), Wang,
Weiqiang (Graduate Univ. of Chinese Acad. of Sciences)

14:00-14:30 TuPSBT1.20

*Wonder Ears: Identification of Identical Twins from Ear
Images*, pp. 1201-1204.

Nejati, Hossein (National Univ. of Singapore, School
of Computing, Department), Zhang, Li (National Univ. of
Singapore), Sim, Terence (National Univ. of Singapore),
Martinez-Marroquin, Elisa (La Salle School of Engineering –
Ramon Llull Univ.), Dong, Guo (Facebook Inc.)

14:00-14:30 TuPSBT1.21

*Unsupervised Discriminative Feature Selection in a Kernel
Space Via L2, 1-Norm Minimization*, pp. 1205-1208.

Liu, Yang (Peking Univ.), Wang, Yizhou (National Engineering
Lab. for Video Tech. Key Lab. of Machi)

14:00-14:30 TuPSBT1.22

*Model-Based Feature Refinement by Ellipsoidal Face
Tracking*, pp. 1209-1212.

JUNG, SUNG-UK (ETRI), Nixon, Mark (Univ. of Southampton)

14:00-14:30 TuPSBT1.23

Discriminative Metric: Schatten Norm vs. Vector Norm, pp.
1213-1216.

Gu, Zhengong (State University of New York (SUNY) at
Buffalo), Shao, Ming (Univ. at Buffalo), Li, Liangyue (Univ. at
Buffalo), Fu, Yun (SUNY at Buffalo)

14:00-14:30 TuPSBT1.24

*Localization and Extraction of the Four Clock-Digits Using
the Knowledge of the Digital Video Clock*, pp. 1217-1220.

Yu, Xinguo (The Central China Normal Univ.)

14:00-14:30 TuPSBT1.25

*Insect Species Recognition Using Discriminative Local Soft
Coding*, pp. 1221-1224.

Lu, An (Inst. of Automation, Chinese Acad. of Sciences), Liu,
Cheng-Lin (Inst. of Automation, Chinese Acad. of Sciences),
Hou, Xinwen (Inst. of Automation, Chinese Acad. of Sciences),
Chen, XiaoLin (Inst. of Zoology, Chinese Acad. of Sciences)

14:00-14:30 TuPSBT1.26

Advanced Ridge Flux Analysis for Fingerprint Minutiae

<i>Detection</i> , pp. 1225-1228.		(Univ. of Copenhagen)
Ohtsuka, Tomohiko (Tokyo National Coll. of Tech.)		
14:00-14:30	TuPSBT1.27	14:00-14:30 TuPSBT1.37
<i>Fast Approximated Relational and Kernel Clustering</i> , pp. 1229-1232.		<i>Fast-Accurate 3D Face Model Generation Using a Single Video Camera</i> , pp. 1269-1272.
Schleif, Frank-Michael (Univ. of Bielefeld), Zhu, Xibin (Univ. of Bielefeld), Gisbrecht, Andrej (Univ. of Bielefeld), Hammer, Barbara (Univ. of Bielefeld)		Hara, Tomoya (Waseda Univ.), Kubo, Hiroyuki (Waseda Univ.), Maejima, Akinobu (Waseda Univ.), Morishima, Shigeo (Waseda Univ.)
14:00-14:30	TuPSBT1.28	14:00-14:30 TuPSBT1.38
<i>Speeding up Optimum-Path Forest Training by Path-Cost Propagation</i> , pp. 1233-1236.		<i>Robust Car License Plate Recognition System Verified with 163, 574 Images Captured in Fields</i> , pp. 1273-1276.
Iwashita, Adriana (Sao Paulo State Univ.), Papa, Joao Paulo (Sao Paulo State Univ. - UNESP), Falcao, Alexandre Xavier (State Univ. of Campinas), Lotufo, Roberto (Univ. of Campinas), Oliveira, Victor Matheus (Univ. of Campinas), Albuquerque, Victor Hugo Costa (Univ. of Fortaleza), Tavares, Joao Manuel R. S. (Faculdade de Engenharia da Univ. do Porto)		Taniyama, Kazuhiko (Mitsubishi Precision Co.,Ltd.), Hayashi, Kentaro (Mitsubishi Precision Co.,Ltd.)
14:00-14:30	TuPSBT1.29	14:00-14:30 TuPSBT1.39
<i>Incoherent Dictionary Learning for Sparse Representation</i> , pp. 1237-1240.		<i>Searching for the Optimal Ordering of Classes in Rule Induction</i> , pp. 1277-1280.
Lin, Tong (Peking Univ.), Liu, Shi (Peking Univ.), Zha, Hongbin (Peking Univ.)		Ata, Sezin (Işık Univ.), Yildiz, Olcay Taner (Isik Univ.)
14:00-14:30	TuPSBT1.30	14:00-14:30 TuPSBT1.40
<i>Similarity Weighted Sparse Representation for Classification</i> , pp. 1241-1244.		<i>Inverse Biometrics: A Case Study in Hand Geometry Authentication</i> , pp. 1281-1284.
Guo, Song (Inst. of Information Science, Beijing Jiaotong University), Ruan, Qiuqi (Beijing Jiaotong Univ.), Miao, Zhenjiang (Inst. of Information Science, Beijing Jiaotong Univ.)		Gomez-Barrero, Marta (Univ. Autonoma de Madrid), Galbally, Javier (Univ. Autonoma de Madrid), Morales, Aythami (Univ. de las Palmas de Gran Canaria), Ferrer, M.A. (Univ. Las Palmas de Gran Canaria), Fierrez, Julian (Univ. Autonoma de Madrid), Ortega-Garcia, Javier (Univ. Autonoma de Madrid)
14:00-14:30	TuPSBT1.31	14:00-14:30 TuPSBT1.41
<i>Occluded Human Action Analysis Using Dynamic Manifold Model</i> , pp. 1245-1248.		<i>An Alternative to IDF: Effective Scoring for Accurate Image Retrieval with Non-Parametric Density Ratio Estimation</i> , pp. 1285-1288.
Chen, Li-Chih (Yuan-Ze Univ.), Hsieh, Jun-Wei (-National Taiwan Ocean Univ.), Chuang, Chi-Hung (Fo Guang Univ.), Chen, Duan-Yu (Yuan-Ze Univ.)		Uchida, Yusuke (KDDI R&D Lab. Inc.), Takagi, Koichi (KDDI R&D Lab. Inc.), Sakazawa, Shigeyuki (KDDI R&D Lab. Inc.)
14:00-14:30	TuPSBT1.32	14:00-14:30 TuPSBT1.42
<i>Face Verification Using Temporal Affective Cues</i> , pp. 1249-1252.		<i>Compound Color Recognition Via Image Analysis on High-Throughput Compound Libraries</i> , pp. 1289-1293.
Ng, Ee Sin (Inst. for Infocomm Res.), Chia, Yong Sang Alex (Inst. for Infocomm Res.)		von Korff, Modest (Actelion Pharmaceuticals Ltd.), Freyss, Joel (Actelion Pharmaceuticals Ltd.), Klensk, Axel (Actelion Pharmaceuticals Ltd.), Silva, Joao (Actelion Pharmaceuticals Ltd.), Bourquin, Geoffroy (Actelion Pharmaceuticals Ltd.), Peter, Oliver (Actelion Pharmaceuticals Ltd.), Sander, Thomas (Actelion Pharmaceuticals Ltd.)
14:00-14:30	TuPSBT1.33	14:00-14:30 TuPSBT1.43
<i>Graph-Based Dimensionality Reduction for KNN-Based Image Annotation</i> , pp. 1253-1256.		<i>Face Recognition Using Semi-Supervised Spectral Feature Selection</i> , pp. 1294-1297.
Liu, Xi (Fujitsu Res. & Development Center Co., LTD), Liu, Ruijie (Fujitsu Res. & Development Center), Li, Fei (Fujitsu Res. & Development Center Co., Ltd.), Cao, Qiong (Fujitsu Res. & Development Center Co., Ltd.)		Zhang, Zhihong (Univ. of York), Hancock, Edwin (Univ. of York)
14:00-14:30	TuPSBT1.34	14:00-14:30 TuPSBT1.44
<i>Age Classification in Unconstrained Conditions Using LBP Variants</i> , pp. 1257-1260.		<i>Interactive Graph Matching by Means of Imposing the Pairwise Costs</i> , pp. 1298-1301.
Ylioinas, Juha Sakari (Univ. of Oulu, Center for Machine Vision Res.), Hadid, Abdenour (Univ. of OULU), Pietikäinen, Matti (Univ. of Oulu)		Serratos, Francesc (Univ. Rovira i Virgili), Cortés, Xavier (Univ. Rovira i Virgili), Solé-Ribalta, Albert (Univ. Rovira i Virgili)
14:00-14:30	TuPSBT1.35	14:00-14:30 TuPSBT1.45
<i>Classification Using Graph Partitioning</i> , pp. 1261-1264.		<i>A New Feature and Associated Optimal Spatial Filter for EEG Signal Classification: Waveform Length</i> , pp. 1302-1305.
Valev, Ventseslav (Inst. of Mathematics and Informatics, Bulgarian Acad. Sc), Yanev, Nicola (Univ. of Sofia and Inst. of Mathematics and Informatics)		Lotte, Fabien (Inria Bordeaux Sud-Ouest)
14:00-14:30	TuPSBT1.36	14:00-14:30 TuPSBT1.46
<i>Metric Learning by Directly Minimizing the K-NN Training Error</i> , pp. 1265-1268.		<i>Unsupervised Online Learning Trajectory Analysis Based on Weighted Directed Graph</i> , pp. 1306-1309.
Chernoff, Konstantin (Univ. of Copenhagen), Loog, Marco (Delft Univ. of Tech. / Univ. of Copenhagen), Nielsen, Mads		Shen, Yuan (Beijing Jiaotong Univ.), Miao, Zhenjiang (Inst. of Information Science, Beijing Jiaotong Univ.), Zhang, Jian (Univ. of Tech. Sydney)
		14:00-14:30 TuPSBT1.47
		<i>A One-Per-Class Reconstruction Rule for Class Imbalance Learning</i> , pp. 1310-1313.
		D'Ambrosio, Roberto (Univ. Campus Bio-Medico of Rome), Iannello, Giulio (Univ. Campus Bio-Medico di Roma), Soda,

Paolo (Univ. Campus Bio-Medico di Roma)

TuPSBT2	Multi-Purpose Hall
Poster Shotgun (06): CV (Regular Session)	
14:00-14:30	TuPSBT2.1
<i>Moving Objects Detection Using Freely Moving Depth Sensing Camera</i> , pp. 1314-1317. Shin, Yong-Deuk (KITECH), Park, Jae-Han (KITECH), Jang, Ga-Ram (Korea Inst. of Industrial Tech.), Baeg, Moon-Hong (KITECH)	
14:00-14:30	TuPSBT2.2
<i>Optimizing a Triangular Mesh by Separately Dealing with Incorrectness of Two Patches</i> , pp. 1318-1321. Murata, Kazuhiro (Toyoashi Univ. of Tech.), Sugaya, Yasuyuki (Toyoashi Univ. of Tech.)	
14:00-14:30	TuPSBT2.3
<i>Multi-Modal Abnormality Detection in Video with Unknown Data Segmentation</i> , pp. 1322-1325. Nguyen, Tien-Vu (Deakin Univ.), Phung, Dinh (Deakin Univ.), Rana, Santu (Deakin Univ.), Pham, Duc-Son (Curtin Univ.), Venkatesh, Svetha (Curtin Univ. of Tech.)	
14:00-14:30	TuPSBT2.4
<i>Extraction of Light and Specific Features for Historical Image Indexing and Matching</i> , pp. 1326-1329. Coustaty, Mickaël (Univ. of La Rochelle), Utama, Surapong (School of Information Tech. Mae Fah Luang Univ.), Ogier, Jean-Marc (Univ. de la Rochelle)	
14:00-14:30	TuPSBT2.5
<i>Implementation of Gestalt Principles for Object Segmentation</i> , pp. 1330-1333. Richtsfeld, Andreas (Vienna Univ. of Tech.), Zillich, Michael (Vienna Univ. of Tech.), Vincze, Markus (TU Wien)	
14:00-14:30	TuPSBT2.6
<i>Mask-Edge Connectivity: Theory, Computation, and Application to Historical Document Analysis</i> , pp. 1334-1337. Wilkinson, Michael H.F. (Univ. of Groningen), Oosterbroek, Jaap (Univ. of Groningen)	
14:00-14:30	TuPSBT2.7
<i>Type-2 Fuzzy Labeled Latent Dirichlet Allocation for Human Action Categorization</i> , pp. 1338-1341. Cao, Xiao-Qin (City Univ. of Hong Kong), Liu, Zhi-Qiang (City Univ. of Hong Kong)	
14:00-14:30	TuPSBT2.8
<i>Lightweight Random Ferns Using Binary Representation</i> , pp. 1342-1345. Lee, Suwon (KAIST), Lee, Sang-Wook (KAIST), Chae, Yeong Nam (KAIST), Yang, Hyun Seung (KAIST)	
14:00-14:30	TuPSBT2.9
<i>Image Annotation Using Adapted Gaussian Mixture Model</i> , pp. 1346-1350. Tsuboshita, Yukihiro (Fuji Xerox Co. Ltd.), Kato, Noriji (Fuji Xerox Co., Ltd.), Fukui, Motofumi (Fuji Xerox Co., Ltd.), OKADA, Masato (The Univ. of Tokyo)	
14:00-14:30	TuPSBT2.10
<i>Object Tracking with L2-RLS</i> , pp. 1351-1354. Xiao, Ziyang (Dalian Univ. of Tech.), Lu, Hu-chuan (Dalian Univ. of Tech.), Wang, Dong (Department of Electronic Engineering)	
14:00-14:30	TuPSBT2.11
<i>Direct Imaging with Printed Microlens Arrays</i> , pp. 1355-1358. Varjo, Sami Juha Olavi (Univ. of Oulu, The Center for Machine	

Vision Res.), Hannuksela, Jari (Univ. of Oulu), Silvén, Olli Johannes (Univ. of Oulu)

14:00-14:30	TuPSBT2.12
<i>2D Shape Recognition Using Biological Sequence Alignment Tools</i> , pp. 1359-1362. Bicego, Manuele (Univ. of Verona), Lovato, Pietro (Univ. of Verona)	
14:00-14:30	TuPSBT2.13
<i>BSIF: Binarized Statistical Image Features</i> , pp. 1363-1366. Kannala, Juho (Univ. of Oulu), Rahtu, Esa (Univ. of Oulu)	
14:00-14:30	TuPSBT2.14
<i>Robust Segmentation for Multiple Planar Surface Extraction in Laser Scanning 3D Point Cloud Data</i> , pp. 1367-1370. Nurunnabi, Abdul (Curtin Univ.), Belton, David (Curtin Univ.), West, Geoff (Curtin Univ. of Tech.)	
14:00-14:30	TuPSBT2.15
<i>Evaluation of Color Spaces for Person Re-Identification</i> , pp. 1371-1374. Du, Yuning (Tsinghua Univ.), Ai, Haizhou (Tsinghua Univ. China), LAO, Shihong (OMRON Social Solutions Co., LTD)	
14:00-14:30	TuPSBT2.16
<i>A Framework of Three-Dimensional Object Recognition Which Needs Only a Few Reference Images</i> , pp. 1375-1378. Yabushita, Hiroko (NTT Cyber Space Lab.), Shimamura, Jun (NTT Corp.), Morimoto, Masashi (NTT Corp.)	
14:00-14:30	TuPSBT2.17
<i>Urban Traffic Monitoring from Aerial LIDAR Data with a Two-Level Marked Point Process Model</i> , pp. 1379-1382. Börcs, Attila (MTA SZTAKI), Benedek, Csaba (Computer and Automation Res. Inst. Hungarian)	
14:00-14:30	TuPSBT2.18
<i>Feature Shift Detection</i> , pp. 1383-1386. Glazer, Assaf (Tech. - Inst. of Tech.), Lindenbaum, Michael (Tech.), Markovitch, Shaul (Tech. - Israel Inst. of Tech.)	
14:00-14:30	TuPSBT2.19
<i>CMV100: A Dataset for People Tracking and Re-Identification in Sparse Camera Networks</i> , pp. 1387-1390. Takala, Valtteri (Univ. of Oulu), Pietikäinen, Matti (Univ. of Oulu)	
14:00-14:30	TuPSBT2.20
<i>Restoring Illumination and View Dependent Data from Sparse Samples</i> , pp. 1391-1394. Filip, Jiri (Inst. of Information Theory and Automation of the AS CR)	
14:00-14:30	TuPSBT2.21
<i>3D Descriptor for People Re-Identification</i> , pp. 1395-1398. Oliver, Javier (Univ. Pol. Valencia), Albiol, Antonio (Univ. Pol. Valencia), Albiol, Alberto (Univ. Pol. Valencia)	
14:00-14:30	TuPSBT2.22
<i>Scale-Invariant Sampling for Supervised Image Segmentation</i> , pp. 1399-1402. Li, Yan (Delft Univ. of Tech.), Loog, Marco (Delft Univ. of Tech. / Univ. of Copenhagen)	
14:00-14:30	TuPSBT2.23
<i>Symmetric Object Detection Based on Symmetry and Centripetal-SIFT Edge Descriptor</i> , pp. 1403-1406. Xiang, Yin (Coll. of Electrical and Information Engineering, Hunan Univ.), Li, Shutao (Hunan Univ.)	
14:00-14:30	TuPSBT2.24

An Effective Regional Saliency Model Based on Extended Site Entropy Rate, pp. 1407-1410.

Huang, Yan (Inst. of Automation, Chinese Acad. of Sciences), Wang, Wei (National Lab. of Pattern Recognition), Wang, Liang (The Univ. of Melbourne), Tan, Tieniu (casia)

14:00-14:30 TuPSBT2.25

A 3D Gesture Recognition Framework Based on Hierarchical Visual Attention and Perceptual Organization Models, pp. 1411-1414.

Hu, Gang (Dalhousie Univ.), Gao, Qigang (Dalhousie Univ.)

14:00-14:30 TuPSBT2.26

Fully Automatic Face Recognition from 3D Videos, pp. 1415-1418.

Hayat, Munawar (The Univ. of Western Australia), Bennamoun, Mohammed (The Univ. of Western Australia), El-Sallam, Amar (The Univ. of Western Australia)

14:00-14:30 TuPSBT2.27

Object Categorization Based on Hierarchical Learning, pp. 1419-1422.

Xia, Tian (Univ. of Macau), Tang, YuanYan (Univ. of Macao), Wei, Yantao (Huazhong Univ. of Science and Tech.), Li, Hong (Huazhong Univ. of Science and Tech.), Li, Luoqing (Hubei Univ.)

14:00-14:30 TuPSBT2.28

Corner-Surround Contrast for Saliency Detection, pp. 1423-1426.

Zhou, Quan (Huazhong Univ. of Science and Technology, Wuhan, China P.R.), li, nianyi (huazhong Univ. of Science and Tech.), yang, yi (Huazhong Univ. of Science and Tech.), chen, pan (huazhong Univ. of science and Tech. the department of), Liu, Wenyu (Huazhong Univ. of Science and Tech.)

14:00-14:30 TuPSBT2.29

A Multi-Layer Phase Field Model for Extracting Multiple Near-Circular Objects, pp. 1427-1430.

Molnar, Csaba (Univ. of Szeged), Kato, Zoltan (Univ. of Szeged), Jermyn, Ian (INRIA)

14:00-14:30 TuPSBT2.30

Group Sparse Representation of Adaptive Sub-Domain Selection for Image Classification, pp. 1431-1434.

Han, Xian-Hua (Ritsumeikan Univ.), Qiao, Xu (Ritsumeikan Univ.), Chen, Yen-wei (Ritsumeikan Univ.)

14:00-14:30 TuPSBT2.31

Daylight Spectrum Model under Weather Conditions from Clear Sky to Cloudy, pp. 1435-1438.

Kaneko, Eiji (NEC Corp.), Toda, Masato (NEC Corp.), Aoki, Hirofumi (NEC Corp.), Tsukada, Masato (NEC Corp.)

14:00-14:30 TuPSBT2.32

A Simple and Effective Extrinsic Calibration Method of a Camera and a Single Line Scanning Lidar, pp. 1439-1442.

Yang, Heng (Queen Mary Univ. of London), Liu, Xiaolin (National Univ. of Defense Tech.), Patras, Ioannis (Queen Mary Univ. of London)

14:00-14:30 TuPSBT2.33

3-D Recovery of a Non-Rigid Object from a Single Camera View by Piecewise Recovery and Synthesis, pp. 1443-1446.

Ishikawa, Shota (Kyushu Inst. of Tech.), Tan, Joo Kooi (Kyushu Inst. of Tech.), Kim, Hyoungseop (Kyushu Inst. of Tech.), Ishikawa, Seiji (Kyushu Inst. of Tech.)

14:00-14:30 TuPSBT2.34

Online Random Ferns for Robust Visual Tracking, pp. 1447-1450.

Rao, Cong (Huazhong Univ. of Science and Tech.), Yao, Cong (Huazhong Univ. of Science and Tech.), Bai, Xiang (Huazhong

Univ. of Sci. and Tech.), Qiu, Weichao (Huazhong Univ. of Science and Tech.), Liu, Wenyu (Huazhong Univ. of Science and Tech.)

14:00-14:30 TuPSBT2.35

Coupled 3D Tracking and Pose Optimization of Rigid Objects Using Particle Filter, pp. 1451-1454.

Yang, Heng (Queen Mary Univ. of London), Zhang, Yueqiang (National Univ. of Defense Tech.), Liu, Xiaolin (National Univ. of Defense Tech.), Patras, Ioannis (Queen Mary Univ. of London)

14:00-14:30 TuPSBT2.36

Action Recognition Based on Spatial-Temporal Pyramid Sparse Coding, pp. 1455-1458.

Zhang, Xiaojing (Tianjin Univ.), Zhang, Hua (Tianjin Univ.), Cao, Xiaochun (Tianjin Univ.)

14:00-14:30 TuPSBT2.37

Adjacent Coding for Image Classification, pp. 1459-1462.

Wang, Yueming (Huazhong Univ. of Science and Tech.), Wang, Xinggang (Huazhong Univ. of Science and Tech.), Zhu, Shaojun (Huazhong Univ. of Science and Tech.), Bai, Xiang (Huazhong Univ. of Sci. and Tech.), Liu, Wenyu (Huazhong Univ. of Science and Tech.)

14:00-14:30 TuPSBT2.38

Grassmann Manifold Online Learning and Partial Occlusion Handling for Visual Object Tracking under Bayesian Formulation, pp. 1463-1466.

Gu, Irene Yu-Hua (Chalmers Univ. of Tech.), Khan, Zulfiqar (Chalmers Univ. of Tech.)

14:00-14:30 TuPSBT2.39

Improved Generic Categorical Object Detection Fusing Depth Cue with 2D Appearance and Shape Features, pp. 1467-1470.

Pan, Hong (School of Automation, Southeast Univ.), Zhu, Yaping (School of Information Engineering, Communication Univ. of C), Xia, Siyu (Southeast Univ.), Qin, Kai (INRIA Grenoble Rhone-Alpes)

14:00-14:30 TuPSBT2.40

Learning Statistically Relevant Edge Structure Improves Low-Level Visual Descriptors, pp. 1471-1474.

Tabernik, Domen (Univ. of Ljubljana, Faculty of Computer and Information Science), Kristan, Matej (Univ. of Ljubljana), Boben, Marko (Univ. of Ljubljana, FRI), Leonardis, Ales (Univ. of Ljubljana)

14:00-14:30 TuPSBT2.41

A Fast and Effective Appearance Model-Based Particle Filtering Object Tracking Algorithm, pp. 1475-1478.

Yao, Zhijun (Huazhong Univ. of Science and Tech.), Zhou, Yu (Huazhong Univ. of Science and Tech.), Liu, Juntao (Department of Electronics and Information Engineering Huazhong U), Liu, Wenyu (Huazhong Univ. of Science and Tech.)

14:00-14:30 TuPSBT2.42

Kernel Homotopy Based Sparse Representation for Object Classification, pp. 1479-1482.

Kang, Cuicui (Inst. of Automation, Chinese Acad. of Sciences), Liao, Shengcai (Inst. of Automation, Chinese Acad. of Sciences), Xiang, Shiming (Inst. of Automation, Chinese Acad. of Sciences), PAN, Chunhong (Inst. of Automation, Chinese Acad. of Sciences)

14:00-14:30 TuPSBT2.43

A Robust Person Detector for Overhead Views, pp. 1483-1486.

AHMED, IMRAN (Univ. of Southampton), Carter, John (Univ. of Southampton)

14:00-14:30 TuPSBT2.44

Coded Aperture for Projector and Camera for Robust 3d Measurement, pp. 1487-1491.

Kawasaki, Hiroshi (Kagoshima Univ.), Horita, Yuuki (Kagoshima Univ.), Morinaga, Hiroki (Kagoshima Univ.), Matugano, Yuuki (Kagoshima Univ.), Kimura, Makoto (Company), Takane, Yasuo (Samsung Yokohama Res. Inst. Co.,Ltd.), Ono, Satoshi (Kagoshima Univ.)

14:00-14:30 TuPSBT2.45

Area-Weighted Surface Normals for 3D Object Recognition, pp. 1492-1496.

Petricek, Tomas (Czech Tech. Univ. in Prague), Svoboda, Tomas (Czech Tech. Univ. Faculty of Electrical Engineering)

14:00-14:30 TuPSBT2.46

Edge Classification Using Photo-Geometric Features, pp. 1497-1500.

Gonfaus, Josep M. (CVC - UAB), Gevers, Theo (Univ. of Amsterdam), Gijssen, Arjan (Alten PTS), Roca, F. Xavier (Computer Vision Center - Univ. Autònoma de Barcelona), Gonzalez, Jordi (Centre de Visio per Computador, Univ. Autònoma de Barcelona)

14:00-14:30 TuPSBT2.47

Shape Reconstruction with Globally-Optimized Surface Point Selection, pp. 1501-1504.

Ukita, Norimichi (Nara Inst. of Science and Tech.), Matsuda, Kazuki (NAIST), Hagita, Norihiro (ATR)

TuCT1 Main Hall

Invited Talk Session-II (Regular Session)

Chair: Cucchiara, Rita Univ. degli Studi di Modena e Reggio Emilia

14:30-15:10 TuCT1.1

Interest Points Detectors and Descriptors in Image Recognition (Invited Talk).*

Mikolajczyk, Krystian (Univ. of Surrey)

15:10-15:30 TuCT1.2

Group Encoding of Local Features in Image Classification, pp. 1505-1508.

Wu, Zifeng (Inst. of Automation, Chinese Acad. of Sciences), Huang, Yongzhen (Inst. of Automation, Chinese Acad. of Sciences), Wang, Liang (Inst. of Automation, Chinese Acad. of Sciences), Tan, Tieniu (casia)

15:30-15:50 TuCT1.3

Bag-Of-Multimedia-Words for Image Classification, pp. 1509-1512.

znaidia, amel (Commissariat à l'énergie atomique (CEA)), shabou, ayman (Commissariat à l'énergie atomique (CEA)), le borgne, hervé (Commissariat à l'énergie atomique (CEA)), hudelot, céline (Ec. Centrale de Paris), Paragios, Nikos (Ec. Centrale de Paris)

15:50-16:10 TuCT1.4

Bag-Of-Feature-Graphs: A New Paradigm for Non-Rigid Shape Retrieval, pp. 1513-1516.

Hou, Tingbo (Stony Brook Univ.), Hou, Xiaohua (Stony Brook Univ.), Zhong, Ming (Stony Brook Univ.), Qin, Hong (Stony Brook Univ.)

TuCT2 Multi-Purpose Hall

Speech, Audio and Signal Processing (Regular Session)

Chair: Yamasaki, Toshihiko The Univ. of Tokyo
Co-Chair: de Sorbier, Francois Keio Univ.

14:30-14:50 TuCT2.1

An Improved EEMD Model for Feature Extraction and

Classification of Gunshot in Public Places, pp. 1517-1520.

Zhang, Zhilong (Chongqing Univ.), Li, Weihong (Chongqing Univ. China), Gong, Weiguo (Chongqing Univ. China), Zhong, Jianhua (Chongqing Metro Corp.)

14:50-15:10 TuCT2.2

An Adaptive Unsupervised Clustering of Pronunciation Errors for Automatic Pronunciation Error Detection, pp. 1521-1525.

Zhang, Long (Harbin Inst. of Tech.), Li, Haifeng (Harbin Inst. of Tech.), Ma, Lin (Harbin Inst. of Tech.)

15:10-15:30 TuCT2.3

Automatic Musical Genre Classification Using Sparsity-Eager Support Vector Machines, pp. 1526-1529.

Aryafar, Kamelia (Drexel Univ.), Jafarpour, Sina (Yahoo! Res.), Shokoufandeh, Ali (Drexel Univ.)

15:30-15:50 TuCT2.4

Layer-Finding in Radar Echograms Using Probabilistic Graphical Models, pp. 1530-1533.

Crandall, David (Indiana Univ.), Fox, Geoffrey (Indiana Univ.), Paden, John (Univ. of Kansas)

15:50-16:10 TuCT2.5

Combining Text and Prosodic Analysis for Prominent Word Detection, pp. 1534-1537.

Ajmera, Jitendra (IBM Res. India), Deshmukh, Om D (IBM Res.)

TuCT3 Room 101+102

Clustering (Regular Session)

Chair: Shimada, Nobutaka Ritsumeikan Univ.
Co-Chair: Su, Fei BeijingUniversityofPostsandTelecommunications,Beijing,China

14:30-14:50 TuCT3.1

Feature Learning Using Generalized Extreme Value Distribution Based K-Means Clustering, pp. 1538-1541.

Li, Zeyu (UC Berkeley), Vinyals, Oriol (UC Berkeley), Baker, Harlyn (HP Lab.), Bajcsy, Ruzena (-UC Berkeley)

14:50-15:10 TuCT3.2

Supporting Ground-Truth Annotation of Image Datasets Using Clustering, pp. 1542-1545.

Boom, Bastiaan Johannes (Univ. of Edinburgh), Huang, Phoenix, Xuan (Univ. of Edinburgh), He, Jiyin (CWI), Fisher, Robert (Univ. of Edinburgh)

15:10-15:30 TuCT3.3

Robust Motion Segmentation Via Refined Sparse Subspace Clustering, pp. 1546-1549.

Ji, Hao (BUPT), Su, Fei (BeijingUniversityofPostsandTelecommunications,Beijing,China)

15:30-15:50 TuCT3.4

Multi-Way Constrained Spectral Clustering by Nonnegative Restriction, pp. 1550-1553.

Hu, Han (Tsinghua Univ.), Zhou, Jiahuan (Tsinghua Univ.), Feng, Jianjiang (Tsinghua Univ.), Zhou, Jie (Tsinghua Univ.)

TuCT4 Hall 200

Layout Analysis (Regular Session)

Chair: Lopresti, Daniel Lehigh Univ.
Co-Chair: Pal, Umapada Indian Statistical Inst.

14:30-14:50 TuCT4.1

Learning the Characteristics of Critical Cells from Web Tables, pp. 1554-1557.

Nagy, George (RPI)	
14:50-15:10	TuCT4.2
<i>Learning Document Structure for Retrieval and Classification</i> , pp. 1558-1561.	
Kumar, Jayant (Univ. of Maryland Coll. Park), Ye, Peng (Univ. of Maryland, Coll. Park), Doermann, David (Univ. of Maryland)	
15:10-15:30	TuCT4.3
<i>Document Segmentation Using Relative Location Features</i> , pp. 1562-1565.	
Cruz Fernandez, Francisco (Univ. Autònoma de Barcelona - Computer Vision Center), Ramos Terrades, Oriol (Univ. Autònoma de Barcelona - Computer Vision Centre)	
15:30-15:50	TuCT4.4
<i>A Graph-Based Method of Newspaper Article Reconstruction</i> , pp. 1566-1569.	
Gao, Liangcai (Peking Univ.), Tang, Zhi (Peking Univ.), Lin, Xiaoyan (Peking Univ.), Wang, Yongtao (Peking Univ.)	
15:50-16:10	TuCT4.5
<i>Graph Based Line Segmentation on Cluttered Handwritten Manuscripts</i> , pp. 1570-1573.	
Wahlberg, Fredrik (Uppsala Univ.), Brun, Anders (Centre for Image Analysis, Swedish Univ. of agricultural sc)	

TuCT5	Hall 300
Face Recognition-I (Regular Session)	

Chair: Fukui, Kazuhiro	Univ. of Tsukuba
Co-Chair: Shi, Bertram Emil	Dept. of Ec. HKUST
14:30-14:50	TuCT5.1
<i>Hyperspectral Face Recognition Using 3D Gabor Wavelets</i> , pp. 1574-1577.	
Shen, Linlin (Shenzhen Univ.), Zheng, Songhao (Shenzhen Univ.)	
14:50-15:10	TuCT5.2
<i>Efficient and Robust Integration of Face Detection and Head Pose Estimation</i> , pp. 1578-1581.	
Jiang, Feijun (Dept. of Ec. HKUST), Shi, Bertram Emil (Dept. of Ec. HKUST), Ekenel, Hazim Kemal (Karlsruhe Inst. of Tech.)	
15:10-15:30	TuCT5.3
<i>Expressive Deformation Profiles for Cross Expression Face Recognition</i> , pp. 1582-1585.	
Zhang, Li (National Univ. of Singapore), Ye, Ning (Bioinformatics Inst.), Martinez-Marroquin, Elisa (La Salle School of Engineering – Ramon Llull Univ.), Sim, Terence (National Univ. of Singapore)	
15:30-15:50	TuCT5.4
<i>Locality-Regularized Linear Regression for Face Recognition</i> , pp. 1586-1589.	
Brown, Douglas (Griffith Univ.), Li, Hanxi (NICTA), Gao, Yongsheng (Griffith Univ.)	
15:50-16:10	TuCT5.5
<i>Illumination Suppression for Illumination Invariant Face Recognition</i> , pp. 1590-1593.	
Baradarani, Aryaz (Univ. of Windsor), Wu, Q. M. Jonathan (Univ. of Windsor), Ahmadi, Majid (Univ. of Windsor)	

TuDT1	Main Hall
Image and Shape Features (Regular Session)	

Chair: Babaguchi, Noboru	Osaka Univ.
16:50-17:10	TuDT1.1
<i>Shape Signature Using the Edge-Based Laplacian</i> , pp. 1594-1597.	

Aziz, Furqan (Univ. of York), Wilson, Richard (Univ. of York), Hancock, Edwin (Univ. of York)	
17:10-17:30	TuDT1.2
<i>Aligning Bags of Shape Contexts for Blurred Shape Model Based Symbol Classification</i> , pp. 1598-1601.	
Battiato, Sebastiano (Univ. of Catania), Farinella, Giovanni Maria (Univ. of Catania), Giudice, Oliver (Univ. of Catania), Puglisi, Giovanni (Univ. of Catania)	
17:30-17:50	TuDT1.3
<i>Shape Similarity Based on Combinatorial Maps and a Tree Pattern Kernel</i> , pp. 1602-1605.	
Bougleux, Sébastien (Univ. de Caen Basse-Normandie), Dupé, François-Xavier (GREYC), Brun, Luc (ENSICAEN), Gaüzère, Benoit (Univ. de Caen, CNRS UMR 6072, GREYC, ENSICAEN), Brun, Myriam (Univ. de Caen, CNRS UMR 6072, GREYC, ENSICAEN)	
17:50-18:10	TuDT1.4
<i>Weighted Collaborative Representation and Classification of Images</i> , pp. 1606-1610.	
Timofte, Radu (Catholic Univ. of Leuven), Van Gool, Luc (ETH Zurich and Univ. of Leuven)	
18:10-18:30	TuDT1.5
<i>Attribute Rating for Classification of Visual Objects</i> , pp. 1611-1614.	
Kim, Jongpil (Rutgers, The State Univ. of New Jersey), Pavlovic, Vladimir (Rutgers Univ.)	

TuDT2	Multi-Purpose Hall
Medical and Bio-Inspired Image Processing (Regular Session)	

Chair: LEE, Hwee Kuan	Bioinformatics Inst. (BII), Agency for Science, Tech. and Res. (A-STAR)
Co-Chair: Chang, Hua-wen	Sichuan Univ.
16:50-17:10	TuDT2.1
<i>An Improved Automatic Gridding Method for Cdna Microarray Images</i> , pp. 1615-1618.	
Shao, Guifang (Xiamen Univ.), Wang, Tingna (Department of Automation, Xiamen Univ.), Chen, Zhigang (Department of Automation, Xiamen Univ.), Huang, Yushu (Department of Automation, Xiamen Univ.), Wen, Yuhua (Department of Pysics, Xiamen Univ.)	
17:30-17:50	TuDT2.3
<i>Sparse Feature Fidelity for Image Quality Assessment</i> , pp. 1619-1622.	
Chang, Hua-wen (Sichuan Univ.), Wang, Ming-hui (Sichuan Univ.), Chen, Shu-qing (Sichuan Univ.), Yang, Hua (Sichuan Univ.), Huang, Zu-jian (Chengdu Aeronautic Vocational and Tech. Coll.)	
17:50-18:10	TuDT2.4
<i>Segmentation of Neural Stem CellsNeurospheres in Unevenly Illuminated Brightfield Images with Shading Reduction</i> , pp. 1623-1626.	
Xiong, Wei (Inst. for Infocomm Res. A-STAR), Chia, Shue Ching (Inst. for Infocomm Res.), Lim, Joo-Hwee (Inst. for Infocomm Res.), LEE, Hwee Kuan (Bioinformatics Inst. (BII), Agency for Science, Tech. an), Sankaran, Shvetha (IMB), Ahmed, Sohail (Inst. of Medical Biology)	
18:10-18:30	TuDT2.5
<i>2D-GE Image Analysis Focusing on Elimination of Spurious Spots</i> , pp. 1627-1630.	
Kostopoulou, Eirini (Univ. of Athens, Greece), Zacharia, Eleni (Univ. of Athens), Maroulis, Dimitris (Univ. of Athens), Vlahou, Antonia (Biomedical Res. Foundation of the Acad. of Athens)	

TuDT3	Room 101+102
Statistical Pattern Recognition (Regular Session)	
Chair: Onishi, Masaki	National Institute of Advanced Industrial Science and Technology (AIST)
Co-Chair: Loog, Marco	Delft Univ. of Tech. / Univ. of Copenhagen
16:50-17:10	TuDT3.1
<i>Bayesian Feature Selection and Model Detection for Student's T-Mixture Distributions</i> , pp. 1631-1634.	
Zhang, Hui (Univ. of Windsor, Canada), Wu, Jonathan (UOW), Nguyen, Thanh Minh (Univ. of Windsor)	
17:10-17:30	TuDT3.2
<i>Regional Zernike Moments for Texture Recognition</i> , pp. 1635-1638.	
Sintorn, Ida-Maria (Swedish Univ. of Agricultural Sciences), Kylberg, Gustaf (Uppsala Univ. and Swedish Univ. of Agricultural Scienc)	
17:30-17:50	TuDT3.3
<i>Combining Multi-Scale Dissimilarities for Image Classification</i> , pp. 1639-1642.	
Li, Yan (Delft Univ. of Tech.), Duin, Robert (TU Delft), Loog, Marco (Delft Univ. of Tech. / Univ. of Copenhagen)	
17:50-18:10	TuDT3.4
<i>Sampling Graphs from a Probabilistic Generative Model</i> , pp. 1643-1646.	
HAN, LIN (THE Univ. OF YORK), Wilson, Richard (Univ. of York), Hancock, Edwin (Univ. of York), Bai, Lu (the Univ. of York), Ren, Peng (China Univ. of Petroleum (Huadong))	
18:10-18:30	TuDT3.5
<i>Convex Support and Relevance Vector Machines for Selective Multimodal Pattern Recognition</i> , pp. 1647-1650.	
Seredin, Oleg (Tula State Univ.), Mottl, Vadim (Computing Center of the Russian Acad. of Sciences), Tatarchuk, Alexander (Computing Center of the Russian Acad. of Sciences), Razin, Nikolay (Moscow Inst. of Physics and Tech.), Windridge, David (Univ. of Surrey)	
TuDT4	Hall 200
Document Analysis Systems (Regular Session)	
Chair: Dengel, Andreas	German Res. Center for Artificial Intelligence (DFKI)
Co-Chair: sun, jun	Fujitsu R&D Center Co., LTD
16:50-17:10	TuDT4.1
<i>Print Biometrics: Recovering Forensic Signatures Form Halftones</i> , pp. 1651-1654.	
Pollard, Stephen (Hewlett Packard Lab.), Simske, Steven (Hewlett Packard Lab.), Adams, Guy (Hewlett Packard Lab.)	
17:10-17:30	TuDT4.2
<i>Font Identification – in Context of an Indic Script</i> , pp. 1655-1658.	
Chanda, Sukalpa (GJØVIK Univ. Coll.), Pal, Umapada (Indian Statistical Inst.), Franke, Katrin (Gjøvik Univ. Coll.)	
17:30-17:50	TuDT4.3
<i>Ensemble Symbol Recognition with Hough Forest</i> , pp. 1659-1662.	
Su, Feng (Nanjing Univ.), Yang, Li (Nanjing Univ.), Lu, Tong (State Key Lab. for Software Tech. Nanjing Univ.)	
17:50-18:10	TuDT4.4
<i>Combination of Product Graph and Random Walk Kernel for Symbol Spotting in Graphical Documents</i> , pp. 1663-1666.	
Dutta, Anjan (Computer Vision Centre, Univ. Autonoma de	

Barcelona), Gibert, Jaume (Computer Vision Center, Univ. Autònoma de Barcelona), Lladós, Josep (Computer Vision Center), Bunke, Horst (Univ. of Bern), Pal, Umapada (Indian Statistical Inst.)

18:10-18:30 TuDT4.5

Semi-Automated OCR Database Generation for Nabataean Scripts, pp. 1667-1670.

Ul-Hasan, Adnan (Tech. Univ. of Kaiserslautern, Germany), Bukhari, Syed Saqib (Tech. Univ. of Kaiserslautern), Rashid, Sheikh Faisal (Tech. Univ. of Kaiserslautern, Germany), Shafait, Faisal (German Res. Center for Artificial Intelligence (DFKI)), Breuel, Thomas (Univ. of kaiserslautern)

TuDT5 Hall 300
Face Recognition-II (Regular Session)

Chair: Sato, Atsushi NEC
Co-Chair: Tistarelli, Massimo Univ. of Sassari

16:50-17:10 TuDT5.1

Joint Dynamic Sparse Learning and Its Application to Multi-View Face Recognition, pp. 1671-1674.

Zhang, Haichao (Northwestern Pol. Univ.), Zhang, Yanning (Northwestern Pol. Univ.), Nasrabadi, Nasser (US Army Res. Lab.), Huang, Thomas (Univ. of Illinois at Urbana-Champaign)

17:10-17:30 TuDT5.2

Optimal Metric Selection for Improved Multi-Pose Face Recognition with Group Information, pp. 1675-1678.

Zhang, Xin (Curtin Univ.), Pham, Duc-Son (Curtin Univ.), Liu, Wanquan (Curtin Univ. of Tech.), Venkatesh, Svetha (Curtin Univ. of Tech.)

17:30-17:50 TuDT5.3

Large Margin Null Space Discriminant Analysis with Applications to Face Recognition, pp. 1679-1682.

Chen, Xiaobo (Jiangsu Univ.), Yang, Jian (Nanjing Univ. of Science and Tech.), Yang, Wankou (Southeast Univ. Nanjing, China)

17:50-18:10 TuDT5.4

Learning Modality-Invariant Features for Heterogeneous Face Recognition, pp. 1683-1686.

Huang, Likun (Nanyang Tech. Univ.), Lu, Jiwen (UIUC), Tan, Yap-Peng (Nanyang Tech. Univ.)

18:10-18:30 TuDT5.5

Locality-Constrained Low Rank Coding for Face Recognition, pp. 1687-1690.

Arpit, Devansh (Univ. at Buffalo), Srivastava, Gaurav (SUNY Buffalo), Fu, Yun (SUNY at Buffalo)

Wednesday, November 14

WePSAT1	Main Hall
Poster Shotgun (07): PR (Regular Session)	
08:30-09:00	WePSAT1.1
<i>Multiple Kernel Discriminant Analysis</i> , pp. 1691-1694. Liu, Xiao-Zhang (Sun Yat-sen Univ.), Feng, Guocan (Sun Yat-Sen Univ.)	
08:30-09:00	WePSAT1.3
<i>Human Face Recognition under Occlusion Using LBP and Entropy Weighted Voting</i> , pp. 1699-1702. Nikan, Soodeh (Univ. of Windsor), Ahmadi, Majid (Univ. of Windsor)	
08:30-09:00	WePSAT1.4
<i>Kernel Based Sparse Representation for Face Recognition</i> , pp. 1703-1706. Qi, Zhu (Shenzhen Graduate School, Harbin Inst. of Tech.), Xu, Yong (Harbin Inst. of Tech.), Wang, Jinghua (The Hong Kong Pol. Univ.), Fan, Zizhu (Harbin Inst. of Tech. EastChinaJiaotongUniversity)	
08:30-09:00	WePSAT1.5
<i>Sparse Residue for Occluded Face Image Reconstruction and Classification</i> , pp. 1707-1710. Wang, Jinghua (The Hong Kong Pol. Univ.), Xu, Yong (Harbin Inst. of Tech.), You, Jane (The Hong Kong Pol. Univ.)	
08:30-09:00	WePSAT1.6
<i>Skin Detection Via Linear Regression Tree</i> , pp. 1711-1714. ZHANG, Jixia (CASIA), WANG, Haibo (CASIA), DAVOINE, Franck (CNRS), PAN, Chunhong (Inst. of Automation, Chinese Acad. of Sciences)	
08:30-09:00	WePSAT1.7
<i>A Near-Optimal Non-Myopic Active Learning Method</i> , pp. 1715-1718. Zhao, Yue (Minzu Univ. of China), Yang, Guosheng (Minzu Univ. of China), Xu, Xiaona (Minzu Univ. of China), Ji, Qiang (RPI)	
08:30-09:00	WePSAT1.8
<i>Tensor Based Robust Color Face Recognition</i> , pp. 1719-1722. Li, Billy (Curtin Univ. of Tech.), Liu, Wanquan (Curtin Univ. of Tech.), An, Senjian (Curtin Univ. of Tech.), KRISHNA, ANEESH (DEPARTMENT OF COMPUTING, CURTIN Univ. PERTH, WESTERN AUSTR)	
08:30-09:00	WePSAT1.9
<i>Closed-Form Information-Theoretic Divergences for Statistical Mixtures</i> , pp. 1723-1726. NIELSEN, Frank (Sony Computer Science Lab. Inc)	
08:30-09:00	WePSAT1.10
<i>Real-Time Smoke Detection Using Texture and Color Features</i> , pp. 1727-1730. Wang, Yue ((1) Inst. for Infocomm Res. Univ.), Chua, Teck Wee (Inst. for Infocomm Res.), Chang, Richard (Inst. for Infocomm Res.), Pham, Nam Trung (Inst. for Infocomm Res.)	
08:30-09:00	WePSAT1.11
<i>Combining Generative and Discriminative Models for Classifying Social Images from 101 Object Categories</i> , pp. 1731-1734. Ballan, Lamberto (Univ. of Florence), Bertini, Marco (Univ. of Florence), Del Bimbo, Alberto (Univ. of Florence), Serain, Andrea M. (Univ. of Florence), Serra, Giuseppe (Univ. of Florence), Zaccone, Benito F. (Univ. of Florence)	
08:30-09:00	WePSAT1.12

Classification of Kinematic Golf Putt Data with Emphasis on Feature Selection, pp. 1735-1738.

Jensen, Ulf (Univ. Erlangen-Nuremberg), Dassler, Frank (adidas Group), Eskofier, Bjoern (Univ. of Erlangen-Nuremberg)

08:30-09:00 WePSAT1.13

Real-Time 3D Face Identification from a Depth Camera, pp. 1739-1742.

Min, Rui (EURECOM), Choi, Jongmoo (Univ. of Southern California), Medioni, Gerard (Univ. of Southern California), Dugelay, Jean-Luc (Eurécom)

08:30-09:00 WePSAT1.14

Spectral Correspondence Method for Fingerprint Minutia Matching, pp. 1743-1746.

Fu, Xiang (Peking Univ. Scie), Liu, Chongjin (Peking Univ. of Electronics Engineering and Computer), Bian, Junjie (Peking Univ.), Feng, Jufu (Peking Univ.)

08:30-09:00 WePSAT1.15

Hypergraph Based Semi-Supervised Learning for Gender Classification, pp. 1747-1750.

Zhang, Zhihong (Univ. of York), Hancock, Edwin (Univ. of York), Ren, Peng (China Univ. of Petroleum (Huadong))

08:30-09:00 WePSAT1.16

Evaluation of Canonical Correlation Analysis: A Correlation Generation Model, pp. 1751-1754.

Su, Ya (Tsinghua Univ.), Wang, Shengjin (Tsinghua Univ.), Fu, Yun (SUNY at Buffalo)

08:30-09:00 WePSAT1.17

Submanifold Decomposition, pp. 1755-1758.

Su, Ya (Tsinghua Univ.), Wang, Shengjin (Tsinghua Univ.), Fu, Yun (SUNY at Buffalo)

08:30-09:00 WePSAT1.18

Camera View Usage of Binary Infrared Sensors for Activity Recognition, pp. 1759-1762.

Tao, Shuai (Hokkaido Univ.), Kudo, Mineichi (Hokkaido Univ.), Nonaka, Hidetoshi (Hokkaido Univ.), Toyama, Jun (Hokkaido Univ.)

08:30-09:00 WePSAT1.19

Using K-Nearest Neighbors to Handle Missing Weak Classifiers in a Boosted Cascade, pp. 1763-1766.

Bouges, Pierre (Blaise Pascal Univ.), Chateau, Thierry (Blaise Pascal Univ.), Blanc, Christophe (Blaise Pascal Univ.), Loosli, Gaelle (Blaise Pascal Univ.)

08:30-09:00 WePSAT1.20

Structural Analysis of Protein Secondary Structure by GHT, pp. 1767-1770.

Cantoni, Virginio (Pavia Univ.), Ferone, Alessio (Univ. of Naples Parthenope), Ozbudak, Ozlem (Istanbul Tech. Univ.), Petrosino, Alfredo (Univ. of Naples "Parthenope")

08:30-09:00 WePSAT1.21

Recovering Human Pose in 3D by Visual Manifolds, pp. 1771-1774.

Wang, Zibin (The Chinese Univ. of Hong Kong), Chung, Chi-kit Ronald (The Chinese Univ. of Hong Kong)

08:30-09:00 WePSAT1.22

Graph Kernels Based on Relevant Patterns and Cycle Information for Chemoinformatics, pp. 1775-1778.

Gaüzère, Benoit (Univ. de Caen, CNRS UMR 6072, GREYC, ENSICAEN), Brun, Luc (ENSICAEN), Villemin, Didier (CNRS UMR 6507 LCMT, ENSICAEN), Brun, Myriam (Univ. de Caen, CNRS UMR 6072, GREYC, ENSICAEN)

08:30-09:00 WePSAT1.23

ARMA-HMM: A New Approach for Early Recognition of

Human Activity, pp. 1779-1782.

Li, Kang (SUNY at Buffalo), Fu, Yun (SUNY at Buffalo)

08:30-09:00 WePSAT1.24

Confidence-Assisted Classification Result Refinement for Object Recognition Featuring TopN-Exemplar-SVM, pp. 1783-1786.

Yamasaki, Toshihiko (The Univ. of Tokyo), Chen, Tsuhan (Cornell Univ.)

08:30-09:00 WePSAT1.25

Unsupervised Spectral Feature Selection for Face Recognition, pp. 1787-1790.

Zhang, Zhihong (Univ. of York), Hancock, Edwin (Univ. of York)

08:30-09:00 WePSAT1.26

MEG Spatio-Temporal Source Reconstruction with Basis Functions Source Model, pp. 1791-1794.

KAN, Jing (Univ. of York)

08:30-09:00 WePSAT1.27

Detection of Eyes by Circular Hough Transform and Histogram of Gradient, pp. 1795-1798.

Ito, Yasutaka (Mie Univ.), Ohshima, Wataru (Mie Univ.), Wakabayashi, Tetsushi (Mie Univ.), Kimura, Fumitaka (Mie Univ.)

08:30-09:00 WePSAT1.28

Medical Prognosis Based on Patient Similarity and Expert Feedback, pp. 1799-1802.

Wang, Fei (IBM T. J. Watson Res. Center), Hu, Jianying (IBM), Sun, Jimeng (IBM T. J. Watson Res. Center)

08:30-09:00 WePSAT1.29

Theoretical Analysis of Learning Local Anchors for Classification, pp. 1803-1806.

Pang, Junbiao (Beijing University of Tech.), Huang, Qingming (Chinese Acad. of Sciences), Yin, Baocai (Beijing Univ. of Tech.), Qin, Lei (Inst. of Computing Tech. Chinese Acad. of Sciences, C), Wang, Dan (Beijing University of Tech.)

08:30-09:00 WePSAT1.30

Sparse Representation for Motion Primitive-Based Human Activity Modeling and Recognition Using Wearable Sensors, pp. 1807-1810.

Zhang, Mi (Univ. of Southern California), Xu, Wenyao (Univ. of California, Los Angeles), Sawchuk, Alexander (Univ. of Southern California), Sarrafzadeh, Majid (UCLA)

08:30-09:00 WePSAT1.31

Looking for the Brain Stroke Signature, pp. 1811-1814.

O'Reilly, Christian (Ec. Pol. de Montreal), Plamondon, Réjean (École Pol. de Montréal)

08:30-09:00 WePSAT1.32

A Nonparametric Bayesian Poisson Gamma Model for Count Data, pp. 1815-1818.

Gupta, Sunil Kumar (Deakin Univ.), Phung, Dinh (Deakin Univ.), Venkatesh, Svetha (Curtin Univ. of Tech.)

08:30-09:00 WePSAT1.33

Soft Decision Trees, pp. 1819-1822.

Irsoy, Ozan (Bogazici Univ.), Yildiz, Olcay Taner (Isik Univ.), Alpaydin, Ethem (Bogazici Univ.)

08:30-09:00 WePSAT1.34

Finding Discriminative Features for Raman Spectroscopy, pp. 1823-1826.

Kemmler, Michael (Friedrich Schiller Univ. of Jena, Germany), Denzler, Joachim (Friedrich-Schiller Univ. of Jena)

08:30-09:00 WePSAT1.35

Iterative Neighbor-Joining Tree Clustering Algorithm for Genotypic Data, pp. 1827-1830.

Amornbunchornvej, Chainarong (King Mongkut's Inst. of Tech. Ladkrabang), Limpiti, Tulaya (King Mongkut's Inst. of Tech. Ladkrabang), Assawamakin, Anunchai (National Center for Genetic Engineering and Biotechnology), Intarapanich, Apichart (National Electronics and Computer Tech. Center), Tongsimma, Sissades (National Center for Genetic Engineering and Biotechnology)

08:30-09:00 WePSAT1.36

Dominant Set and Target Clique Extraction, pp. 1831-1834.

Hou, Jian (Bohai Univ.), E, Xu (Bohai Univ.), Chi, Lei (Bohai Univ.), Xia, Qi (Harbin Inst. of Tech.), Qi, Nai-Ming (Harbin Inst. of Tech.)

08:30-09:00 WePSAT1.37

Video Privacy Filters with Tolerance to Segmentation Errors for Video Conferencing and Surveillance, pp. 1835-1838.

O'Gorman, Lawrence (Alcatel-Lucent Bell Lab.)

08:30-09:00 WePSAT1.38

Facial Expression Recognition Based on Discriminative Dictionary Learning, pp. 1839-1842.

Liu, Weifeng (China Univ. of Petroleum (East China)), Song, Caifeng (China Univ. of Petroleum (East China)), Wang, Yanjiang (China Univ. of Petroleum)

08:30-09:00 WePSAT1.39

Tracking Tetrahymena Pyriformis Cells Using Decision Trees, pp. 1843-1847.

Wang, Quan (Rensselaer Pol. Inst.), Ou, Yan (Rensselaer Pol. Inst.), Julius, Agung (Rensselaer Pol. Inst.), Boyer, Kim (Rensselaer Pol. Inst.), Kim, Min Jun (Drexel Univ.)

08:30-09:00 WePSAT1.40

Illumination Normalization of Face Images with Cast Shadows, pp. 1848-1851.

Matsukawa, Tetsu (The Univ. of Tokyo), Okabe, Takahiro (The Univ. of Tokyo), Sato, Yoichi (Univ. of Tokyo)

08:30-09:00 WePSAT1.41

Null QQ Plots: A Simple Graphical Alternative to Significance Testing for the Comparison of Classifiers, pp. 1852-1855.

Berrar, Daniel (Tokyo Inst. of Tech.)

08:30-09:00 WePSAT1.42

Automated Mitosis Detection Based on Exclusive Independent Component Analysis, pp. 1856-1859.

Huang, Chao-Hui (Bioinformatics Inst. (BII), Agency for Science, Tech. and), LEE, Hwee Kuan (Bioinformatics Inst. (BII), Agency for Science, Tech. and)

08:30-09:00 WePSAT1.43

Ensemble Learning for Change-Point Prediction, pp. 1860-1863.

Hirade, Ryo (IBM Japan), Yoshizumi, Takayuki (IBM)

08:30-09:00 WePSAT1.44

Concurrent Propagation for Solving Ill-Posed Problems of Global Discrete Optimisation, pp. 1864-1867.

Gimelfarb, Georgy (Univ. of Auckland), Gong, Rui (Univ. of Auckland), Nicolescu, Radu (Univ. of Auckland), Delmas, Patrice (The Univ. of Auckland)

08:30-09:00 WePSAT1.45

Human Action Recognition Based on Sparse Representation Induced by L1/L2 Regulations, pp. 1868-1871.

Gao, Zan (Tianjin Univ. of Tech.), Liu, Anan (TJU), Zhang, Hua (TJUT), Xu, Guang-Ping (TJUT), Xue, Yanbing (TJUT)

WePSAT2

Multi-Purpose Hall

Poster Shotgun (08): SS (Regular Session)

08:30-09:00	WePSAT2.1
<i>Motion Blur Free Photometric Stereo Using Correlation Image Sensor</i> , pp. 1872-1875. Kurihara, Toru (Univ. of Tokyo), Ando, Shigeru (Univ. of Tokyo)	
08:30-09:00	WePSAT2.2
<i>Simultaneous Reflectance Estimation and Surface Shape Recovery Using Polarisation</i> , pp. 1876-1879. Zhang, Lichi (Univ. of York), Hancock, Edwin (Univ. of York)	
08:30-09:00	WePSAT2.3
<i>Facial Emotion Recognition in Continuous Video</i> , pp. 1880-1883. Cruz, Alberto (Univ. of California, Riverside), Bhanu, Bir (Univ. of California), Thakoor, Ninad (Univ. of California, Riverside)	
08:30-09:00	WePSAT2.4
<i>A Novel Spatial-Temporal Multi-Scale Method for Detection and Analysis of Infrared Multiple Moving Objects</i> , pp. 1884-1887. Zhang, Tianxu (Huazhong Univ. of Science and Technology, Wuhan), Li, Hao (Huazhong Univ. of Science and Technology, Wuhan), Li, Gaofei (Huazhong Univ. of Science and Technology, Wuhan), Chen, Jianchong (Huazhong Univ. of Science and Technology, Wuhan430074)	
08:30-09:00	WePSAT2.5
<i>Classification Oriented Semi-Supervised Band Selection for Hyperspectral Images</i> , pp. 1888-1891. Bai, Jun (Inst. of Automation, Chinese Acad. of Sciences), Xiang, Shiming (Inst. of Automation, Chinese Acad. of Sciences), PAN, Chunhong (Inst. of Automation, Chinese Acad. of Sciences)	
08:30-09:00	WePSAT2.6
<i>Key Frame Selection Based on Jensen-Renyi Divergence</i> , pp. 1892-1895. Xu, Qing (Tianjin Univ.)	
08:30-09:00	WePSAT2.7
<i>Arbitrarily Oriented Text Detection Using Geodesic Distances between Corners and Skeletons</i> , pp. 1896-1899. Zhang, Yong (Sun Yat-sen University), Lai, Jian-huang (Sun Yat-sen Univ.)	
08:30-09:00	WePSAT2.8
<i>A Spectral Reflectance Representation for Recognition and Reproduction</i> , pp. 1900-1903. Ratnasingam, Sivalogeswaran (NICTA), Robles-Kelly, Antonio (NICTA)	
08:30-09:00	WePSAT2.9
<i>Context-Aware Horror Video Scene Recognition Via Cost-Sensitive Sparse Coding</i> , pp. 1904-1907. Ding, Xinmiao (China Univ. of Mining and Tech.), Li, Bing (National Lab. of Pattern Recognition, Inst. of Automata), Hu, Weiming (National Lab. of Pattern Recognition, Inst.), Xiong, weihua (Omnivision Corp.), Wang, Zhenchong (China Univ. of Mining and Tech.)	
08:30-09:00	WePSAT2.10
<i>Pan-Sharpener Using Weighted Red-Black Wavelet</i> , pp. 1908-1911. Liu, Qingjie (BeiHang Univ.), Wang, Yunhong (BeiHang Univ.), Zhang, Zhaoxiang (BeiHang Univ.), Liu, Lining (BeiHang Univ.)	
08:30-09:00	WePSAT2.11
<i>A Color Chart Detection Method for Automatic Color Correction</i> , pp. 1912-1915. Minagawa, Akihiro (Fujitsu Lab. LTD), Katsuyama, Yutaka (FUJITSU Lab. LTD.), Takebe, Hiroaki (Fujitsu Lab. Ltd.), Hotta, Yoshinobu (Fujitsu Lab. LTD.)	

08:30-09:00	WePSAT2.12
<i>Single Image Super-Resolution Using Gaussian Mixture Model</i> , pp. 1916-1919. He, HuaYong (School of Information Science and Tech. The computer applica), Li, JianHong (School of Information Science and Technology The computer applicatio), Luo, Xiaonan (Sun Yat-sen Univ.)	
08:30-09:00	WePSAT2.13
<i>Multi Scale Multi Structuring Element Top-Hat Transform for Linear Feature Detection</i> , pp. 1920-1923. Xiangzhi, Bai (Beihang Univ.), Fugen, Zhou (Beihang Univ.), Bindang, Xue (Beihang Univ.)	
08:30-09:00	WePSAT2.14
<i>Joint Multi-Frame Super-Resolution and Matting</i> , pp. 1924-1927. Prabhu, Sahana (IITM), Ambasamudram, Rajagopalan (Indian Inst. of Tech. Madras)	
08:30-09:00	WePSAT2.15
<i>Locally Linear Embedding Based Example Learning for Pan-Sharpener</i> , pp. 1928-1931. Liu, Qingjie (BeiHang Univ.), Liu, Lining (Beihang Univ.), Wang, Yunhong (Beihang Univ.), Zhang, Zhaoxiang (Beihang Univ.)	
08:30-09:00	WePSAT2.16
<i>Envelope Extraction for Composite Shapes for Shape Retrieval</i> , pp. 1932-1935. Song, Jianguo (Inst. of Computer Science & Tech.), Lu, Xiaoqing (Peking Univ.), Ling, Haibin (Temple Univ.), Wang, Xiao (Peking Univ.), Tang, Zhi (Peking Univ.)	
08:30-09:00	WePSAT2.17
<i>Image Super-Resolution by Structural Sparse Coding</i> , pp. 1936-1939. Ren, Jie (Peking Univ.), Liu, Jiaying (Peking Univ.), Wang, Mengyan (Peking Univ.), Guo, Zongming (Peking Univ.)	
08:30-09:00	WePSAT2.18
<i>Estimation of the Human Performance for Pedestrian Detectability Based on Visual Search and Motion Features</i> , pp. 1940-1943. Wakayama, Masashi (Nagoya Univ.), Deguchi, Daisuke (Nagoya Univ.), Doman, Keisuke (Nagoya Univ.), Ide, Ichiro (Nagoya Univ.), Murase, Hiroshi (Nagoya Univ.), Tamatsu, Yukimasa (DENSO Corp.)	
08:30-09:00	WePSAT2.20
<i>Image Super-Resolution Based on Locality-Constrained Linear Coding</i> , pp. 1948-1951. Taniguchi, Kazuki (Ritsumeikan Univ.), Han, Xian-Hua (Ritsumeikan Univ.), Iwamoto, Yutaro (Ritsumeikan Univ.), Sasatani, So (Ritsumeikan Univ.), Chen, Yen-wei (Ritsumeikan Univ.)	
08:30-09:00	WePSAT2.21
<i>Color Maximal-Dissimilarity Pattern for Pedestrian Detection</i> , pp. 1952-1955. Wang, Qingyuan (Graduate Univ. of Chinese Acad. of Sciences), Pang, Junbiao (Beijing University of Tech.), liu, guoyi (nec Lab. china), qin, lei (Inst. of Computing Tech. Chinese Acad. C), Huang, Qingming (Chinese Acad. of Sciences), Jiang, Shuqiang (Chinese Acad. of Sciences)	
08:30-09:00	WePSAT2.22
<i>A Tracking Based Fast Online Complete Video Synopsis Approach</i> , pp. 1956-1959. Sun, Lei (Tsinghua Univ. Beijing, China), Xing, Junliang (Tsinghua Univ.), Ai, Haizhou (Tsinghua Univ. China), LAO, Shihong (OMRON Social Solutions Co., LTD)	
08:30-09:00	WePSAT2.23
<i>Sorted Dominant Local Color for Searching Large and</i>	

<i>Heterogeneous Image Databases</i> , pp. 1960-1963.	
Vidal, Marcio (Federal Univ. of Amazonas), Cavalcanti, João (Federal Univ. of Amazonas), Silva de Moura, Edleno (Federal Univ. of Amazonas), da Silva, Altigran (Univ. Federal do Amazonas), Torres, Ricardo (Inst. of Computing, Univ. of Campinas)	
08:30-09:00	WePSAT2.24
<i>Indexed Heat Curves for 3D-Model Retrieval</i> , pp. 1964-1967.	
EL Khoury, Rachid (telecom lille1), Vandeborre, Jean-Philippe (Univ. of Lille 1), Daoudi, Mohamed (TELECOM Lille1)	
08:30-09:00	WePSAT2.25
<i>Nonlocal Processing of 3D Colored Point Clouds</i> , pp. 1968-1971.	
François, Lozes (Univ. de Caen Basse-Normandie GREYC UMR 6072), elmoataz, abderrahim (Univ. de Caen Basse-Normandie), lezoray, olivier (Univ. de Caen Basse-Normandie)	
08:30-09:00	WePSAT2.26
<i>Speech Emotion Recognition Based on Kernel Reduced-Rank Regression</i> , pp. 1972-1976.	
Wenming, Zheng (Southeast Univ.), Zhou, Xiaoyan (Nanjing Univ. of Information Science & Tech.)	
08:30-09:00	WePSAT2.27
<i>Context-Aware Learning for Automatic Sports Highlight Recognition</i> , pp. 1977-1980.	
Ghanem, Bernard (King Abdullah Univ. of Science and Tech.), Kreidieh, Maya (American Univ. of Beirut), Farra, Marc (American Univ. of Beirut), Zhang, Tianzhu (Advanced Digital Sciences Center of Illinois)	
08:30-09:00	WePSAT2.28
<i>No Reference Measurement of Contrast Distortion and Optimal Contrast Enhancement</i> , pp. 1981-1984.	
Xu, Hongteng (Shanghai Jiao Tong Univ.), Zhai, Guangtao (Shanghai Jiao Tong Univ.), YANG, Xiaokang (Shanghai Jiao Tong Univ.)	
08:30-09:00	WePSAT2.29
<i>Enhanced Semantic Descriptors for Functional Scene Categorization</i> , pp. 1985-1988.	
Zen, Gloria (Univ. of Trento), Rostamzadeh, Negar (Univ. of Trento), Staiano, Jacopo (Univ. of Trento), Ricci, Elisa (Univ. of Perugia), Sebe, Nicu (Univ. of Trento)	
08:30-09:00	WePSAT2.30
<i>Active Contours Segmentation with Edge Based and Local Region Based</i> , pp. 1989-1992.	
Srikham, Manassanan (Chulalongkorn Univ.)	
08:30-09:00	WePSAT2.31
<i>Robust Detection of Adventitious Lung Sounds in Electronic Auscultation Signals</i> , pp. 1993-1996.	
Sakai, Tomoya (Nagasaki Univ.), Kato, Madoka (Nagasaki Univ.), Miyahara, Sueharu (Nagasaki Univ.), Kiyasu, Senya (Nagasaki Univ.)	
08:30-09:00	WePSAT2.32
<i>A Classwise Supervised Ordering Approach for Morphology Based Hyperspectral Image Classification</i> , pp. 1997-2000.	
COURTY, Nicolas (Univ. of Bretagne Sud), Aptoula, Erchan (Okan Univ.), Lefèvre, Sébastien (Univ. of South Brittany)	
08:30-09:00	WePSAT2.33
<i>Unsupervised People Organization and Its Application on Individual Retrieval from Videos</i> , pp. 2001-2004.	
Hao, Pengyi (waseda Univ.), kamata, Sei-ichiro (Waseda Univ.)	
08:30-09:00	WePSAT2.34
<i>Sparse Representation of Audio Features for Sputum</i>	
<i>Detection from Lung Sounds</i> , pp. 2005-2008.	
Yamashita, Tatsuya (Gifu Univ.), tamura, satoshi (Gifu Univ.), Hayashi, Kenji (Gifu Univ.), Nishimoto, Yutaka (Gifu Univ.), Hayamizu, Satoru (Gifu Univ.)	
08:30-09:00	WePSAT2.35
<i>Circular Object Detection Method Based on Separability and Uniformity of Feature Distributions Using Bhattacharyya Coefficient</i> , pp. 2009-2012.	
Niigaki, Hitoshi (Nippon Telegraph and Telephone Corp.), Shimamura, Jun (NTT Corp.), Morimoto, Masashi (NTT Corp.)	
08:30-09:00	WePSAT2.36
<i>Adaptive Support-Window Approximation to Bilateral Filtering</i> , pp. 2013-2016.	
Lin, Guo-Shiang (Da-Yeh Univ.), Chen, Chun-Yu (National Chung Cheng Univ.), Kuo, Chun-Ting (National Chung Cheng Univ.), Lie, Wen-Nung (National Chung Cheng Univ.), Liu, Kai-Che (Medical Image Res. Department, Asian Inst. of TeleSurger)	
08:30-09:00	WePSAT2.37
<i>Multiple-Food Recognition Considering Co-Occurrence Employing Manifold Ranking</i> , pp. 2017-2020.	
Matsuda, Yuji (The Univ. of Electro-Communications, Tokyo), Yanai, Keiji (The Univ. of Electro-Communications, Tokyo)	
08:30-09:00	WePSAT2.38
<i>Spatiotemporal Saliency Based on Distributed Opponent Oriented Energy</i> , pp. 2021-2024.	
Zhou, Yue (Shanghai Jiaotong Univ. Inst. of image processing& pat), Shi, Kun (Shanghai Jiao Tong Univ.)	
08:30-09:00	WePSAT2.39
<i>Image Enhancement by Wavelet Multi-Scale Edge Statistics</i> , pp. 2025-2028.	
Liew, Alan Wee-Chung (Griffith Univ.), Jo, Jun (Griffith Univ.), Chun, Yong-Sik (Korea Aerospace Res. Inst.), Tae-Hong, Ahn (Chonnam Tech. Univ.), Tae Byong, Chae (Korea Aerospace Res. Inst.)	
08:30-09:00	WePSAT2.40
<i>A Semi-Lagrangian Scheme for Area Preserving Flow</i> , pp. 2029-2033.	
carlini, elisabetta (Sapienza Univ. di Roma), Ferretti, Roberto (Univ. di Roma Tre)	
08:30-09:00	WePSAT2.41
<i>Enhancement and Noise Reduction of Very Low Light Level Images</i> , pp. 2034-2037.	
Zhang, Xiangdong (Xidian Univ.), Shen, Peiyi (Xidian Univ.), Luo, Lingli (Xidian Univ.), Zhang, Liang (Xidian Univ.), Song, Juan (Xidian Univ.)	
08:30-09:00	WePSAT2.42
<i>Visual Attention Region Determination for H.264 Videos</i> , pp. 2038-2041.	
Hu, Kang-Ting (National Chung Cheng Univ.), Leou, Jin-Jang (National Chung Cheng Univ.), Hsiao, Han-Hui (National Chung Cheng Univ.)	
08:30-09:00	WePSAT2.43
<i>Node Localization in Unsynchronized Time of Arrival Sensor Networks</i> , pp. 2042-2046.	
Burgess, Simon (Lund Univ.), Kuang, Yubin (Lund Univ.), Astroem, Kalle (Lund Univ.)	
08:30-09:00	WePSAT2.44
<i>Video Summarization Using Simple Action Patterns</i> , pp. 2047-2050.	
Aydemir, M. Said (Yildiz Tech. Univ.), Ergul, Ugur (Yildiz Tech. Univ.), Guclu, Adem (Yildiz Tech. Univ.), Karsligil, M. Elif (Yildiz Tech. Univ.)	

08:30-09:00 WePSAT2.45

A Probabilistic Framework for Logo Detection and Localization in Natural Scene Images, pp. 2051-2054.

Roy, Ankush (Indian Statistical Inst.), Garain, Utpal (Indian Statistical Inst.)

08:30-09:00 WePSAT2.46

Guided Inpainting and Filtering for Kinect Depth Maps, pp. 2055-2058.

Liu, Junyi (Zhejiang Univ.), Gong, Xiaojin (Zhejiang Univ.), Liu, Jilin (Zhejiang Univ.)

WeAT1 Main Hall
Invited Talk Session-III (Regular Session)

Chair: Yagi, Yasushi Osaka Univ.
Co-Chair: Suzuki, Kenji The Univ. of Chicago

09:00-09:40 WeAT1.1

Patient and Process Specific Imaging and Visualization for Computer Assisted Interventions (Invited Talk).*

Navab, Nassir (Tech. Univ. München, Chair for Computer Aided Medical)

09:40-10:00 WeAT1.2

Constrained-MSER Detection of Retinal Pathology, pp. 2059-2062.

Lim, Yong San Gilbert (National Univ. of Singapore), Lee, Mong Li (National Univ. of Singapore), Hsu, Wynne (National Univ. of Singapore)

10:00-10:20 WeAT1.3

Automatic Localization of the Macula in a Supervised Graph-Based Approach with Contextual Superpixel Features, pp. 2063-2066.

Wong, Wing Kee Damon (Inst. for Infocomm Res.), Liu, Jiang, Jimmy (Inst. for Infocomm Res. A-STAR), Tan, Ngan-Meng (Inst. for Infocomm Res.), Yin, Fengshou (Inst. for Infocomm Res.), Cheng, Xiangang (Inst. for Infocomm Res.), Cheung, Gemmy C.M. (Singapore Eye Res. Inst.), bhargava, Mayuri (Singapore Eye Res. Inst.), Wong, Tien Yin (Singapore Eye Res. Inst.)

10:20-10:40 WeAT1.4

Classification of Drusen Positions in Optical Coherence Tomography Data from Patients with Age-Related Macular Degeneration, pp. 2067-2070.

Dufour, Pascal Andre (Univ. of Bern), De Zanet, Sandro (Univ. of Bern), Wolf-Schnurrbusch, Ute (Univ. Hospital Bern), Kowal, Jens (Univ. of Bern)

WeAT2 Multi-Purpose Hall
Low-Level and Physics-Based Vision (Regular Session)

Chair: Horiuchi, Takahiko Chiba Univ.
Co-Chair: Wang, Hanzhi Xiamen Univ.

09:00-09:20 WeAT2.1

Image Super-Resolution Based on Multikernel Regression, pp. 2071-2074.

Gu, Ying (Xiamen Univ.), Qu, Yanyun (Xiamen Univ.), Fang, Tianzhu (Xiamen Univ.), Li, cuihua (Xiamen Univ.), Wang, Hanzhi (Xiamen Univ.)

09:20-09:40 WeAT2.2

Predicting Environment Illumination Effects on Material Appearance, pp. 2075-2078.

Filip, Jiri (Inst. of Information Theory and Automation of the AS CR), Haindl, Michael (Inst. of Information Theory and Automation), Stancik, Jaroslav (Varos s.r.o.)

09:40-10:00 WeAT2.3

Tangent Estimation Along 3D Digital Curves, pp. 2079-2082.

Postolski, Michal (Univ. Paris-Est, Lab. Eq), Janaszewski, Marcin (Tech. Univ. of Lodz, Computer Engineering Department), Kenmochi, Yukiko (Univ. Paris-Est), Lachaud, Jacques-Olivier (Lab. of Mathematics (UMR CNRS 5127), Univ. of Savoie,)

10:00-10:20 WeAT2.4

Estimation of Multiple Light Sources from Specular Highlights, pp. 2083-2086.

Kato, Yu (Chiba Univ.), Horiuchi, Takahiko (Chiba Univ.), Tominaga, Shoji (Chiba Univ.)

10:20-10:40 WeAT2.5

Depth-Adaptive Superpixels, pp. 2087-2090.

Weikersdorfer, David (Tech. Univ. München), Gossow, David (Tech. Univ. München), Beetz, Michael (Tech. Univ. München)

WeAT3 Room 101+102
Shape Analysis (Regular Session)

Chair: Kittler, Josef Univ. of Surrey
Co-Chair: Robles-Kelly, Antonio NICTA

09:00-09:20 WeAT3.1

Shape Analysis on the Hypersphere of Wavelet Densities, pp. 2091-2094.

Moyou, Mark Matthew (Florida Inst. of Tech.), Peter, Adrian (Florida Inst. of Tech.)

09:20-09:40 WeAT3.2

A Grassmann Manifold-Based Domain Adaptation Approach, pp. 2095-2099.

Zheng, Jingjing (Univ. of Maryland, Coll. Park), Liu, Ming-Yu (Mitsubishi Electric Res. Lab.), Chellappa, Rama (Univ. of Maryland), Phillips, Jonathon (NIST)

09:40-10:00 WeAT3.3

Extracting Planar Structures Efficiently with Revisited BetaSAC, pp. 2100-2103.

Decrouez, Marion Caroline (INRIA Rhone-Alpes), Romain, Dupont (CEA LIST), Gaspard, Francois (CEA LIST), Crowley, James (INP Grenoble)

10:00-10:20 WeAT3.4

Fast and Robust Monocular 3D Deformable Shape Estimation for Inextensible and Smooth Surfaces, pp. 2104-2107.

Ferraz, Luis (Univ. Pompeu Fabra), Binefa, Xavier (Univ. Pompeu Fabra)

10:20-10:40 WeAT3.5

Detecting Discontinuities for Surface Reconstruction, pp. 2108-2111.

Wang, Yinting (Zhejiang Univ.), Bu, jiajun (Zhejiang Univ.), Li, Na (Zhejiang International Studies Univ.), Song, Mingli (Zhejiang Univ.), Tan, Ping (National Univ. of Singapore)

WeAT4 Hall 200
Tracking (Regular Session)

Chair: Elgammal, Ahmed Rutgers Univ.
Co-Chair: Svoboda, Tomas Czech Tech. Univ. Faculty of Electrical Engineering

09:00-09:20 WeAT4.1

Robust Tracking by Accounting for Hard Negatives Explicitly, pp. 2112-2115.

Lei, Peng (Beijing Inst. of Tech. Hill Res.), Wu, Tianfu (Lotus Hill Res. Inst.), Pei, Mingtao (Beijing Inst. of Tech.), Ming, Anlong (Beijing Univ. of Posts and Telecommunications), Yao, Zhenyu (Beijing Univ. of Posts and Telecommunications; Lotus

Hill Re)	
09:20-09:40	WeAT4.2
<i>Point Track Creation in Unordered Image Collections Using Gomory-Hu Trees</i> , pp. 2116-2119.	
Svärm, Linus (Lund Univ.), Zhayida, Simayijiang (Lund Univ.), Enqvist, Olof (Lund Univ.), Olsson, Carl (Lund Univ.)	
09:40-10:00	WeAT4.3
<i>Robust Visual Tracking with the Cross-Bin Metric</i> , pp. 2120-2123.	
lv, Chaoxin (Xiamen Univ.), Yan, Yan (Xiamen Univ.), Wang, Hanzhi (Xiamen Univ.)	
10:00-10:20	WeAT4.4
<i>Tracking with Context As a Semi-Supervised Learning and Labeling Problem</i> , pp. 2124-2127.	
Cerman, Lukáš (Center for Machine Perception, Department of Cybernetics, Faculty), Hlavac, Vaclav (Czech Tech. Univ. Faculty of Electrical Engineering)	
10:20-10:40	WeAT4.5
<i>Camera Tracking Based on Circular Point Factorization</i> , pp. 2128-2131.	
Calvet, Lilian (Univ. of Toulouse, IRIT), GURDJOS, PIERRE (Univ. of Toulouse), Charvillat, Vincent (IRIT)	

WeAT5	Hall 300
Learning-I (Regular Session)	

Chair: Uchida, Seiichi	Kyushu Univ.
Co-Chair: He, Ran	Inst. of Automation, Chinese Acad. of Sciences

09:00-09:20	WeAT5.1
<i>Set-Valued Bayesian Inference with Probabilistic Equivalence</i> , pp. 2132-2135.	
Le Capitaine, Hoel (Univ. of Nantes)	

09:20-09:40	WeAT5.2
<i>Robust Multiple Model Estimation with Jensen-Shannon Divergence</i> , pp. 2136-2139.	
Zhou, Kai (Inst. of Automation and Control, Vienna Univ. of Technol), Varadarajan, Karthik Mahesh (TU Wien), Zillich, Michael (Vienna Univ. of Tech.), Vincze, Markus (TU Wien)	

09:40-10:00	WeAT5.3
<i>Multi-Label Learning Vector Quantization Algorithm</i> , pp. 2140-2143.	
Jin, Xiao-Bo (Henan Univ. of Tech.), Geng, Guang-Gang (Computer Network Information Center, Chinese Acad. of Science), Yu, Junwei (School of Information Science and Engineering, Henan Univ.), Zhang, Dexian (School of Information Science and Engineering, Henan Univ.)	

10:00-10:20	WeAT5.4
<i>Centroid-Based Clustering for Graph Datasets</i> , pp. 2144-2147.	
Chen, Lifei (Fujian Normal Univ.), Wang, Shengrui (Univ. of Sherbrooke), Yan, Xuanhui (Fujian Normal Univ.)	

10:20-10:40	WeAT5.5
<i>Recursive NMF: Efficient Label Tree Learning for Large Multi-Class Problems</i> , pp. 2148-2151.	
Liu, Lei (Michigan State Univ.), Comar, Prakash (Michigan State Univ.), Saha, Sabyasachi (Narus Inc.), Tan, Pang-Ning (Michigan State Univ.), Nucci, Antonio (Narus Inc.)	

11:40-12:00	WeBT1.2
<i>Robust Model-Based Tracking Considering Changes in the Measurable DoF of the Target Object</i> , pp. 2157-2160.	
Kumagai, Kenzo (Nara Inst. of science and Tech.), Oikawa, Marina Atsumi (Nara Inst. of Science and Tech.), Taketomi, Takafumi (Nara Inst. of Science and Tech.), Yamamoto, Goshiro (Nara Inst. of Science and Tech.), Miyazaki, Jun (Nara Inst. of Science and Tech.), Kato, Hirokazu (Nara Inst. of Science and Tech.)	

12:00-12:20	WeBT1.3
<i>Combining Contrast Saliency and Region Discontinuity for Precise Hand Segmentation in Projector-Camera System</i> , pp. 2161-2164.	
Dai, Jingwen (The Chinese Univ. of Hong Kong), Chung, Chi-kit Ronald (The Chinese Univ. of Hong Kong)	
12:20-12:40	WeBT1.4
<i>Shadow Detection Via Rayleigh Scattering and Mie Theory</i> , pp. 2165-2168.	
Gu, Lin (the Australian National Univ.), Robles-Kelly, Antonio (NICTA)	
12:40-13:00	WeBT1.5
<i>Iterative Clustering and Support Vectors-Based High-Confidence Query Selection for Motor Imagery EEG Signals Classification</i> , pp. 2169-2172.	
Yang, Huijuan (Inst. for Infocomm Res. A*STAR), Guan, Cuntai (Inst. for Infocomm Res.), Ang, Kai Keng (Inst. for Infocomm Res. A*STAR), Zhang, Haihong (Inst. for Infocomm Res.), Wang, Chuanchu (Inst. for Infocomm Res.)	

WeBT1	Main Hall
Mixed Reality and Human Computer Interaction (Regular Session)	
Chair: Kato, Hirokazu	Nara Inst. of Science and Tech.

Co-Chair: Robles-Kelly, Antonio	NICTA
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11:20-11:40	WeBT1.1
<i>Exploiting Sensors on Mobile Phones to Improve Wide-Area Localization</i> , pp. 2152-2156.	
Arth, Clemens (Graz Univ. of Tech.), Mulloni, Alessandro (Graz Univ. of Tech.), Schmalstieg, Dieter (Graz Univ. of Tech.)	

11:40-12:00	WeBT1.2
<i>Robust Model-Based Tracking Considering Changes in the Measurable DoF of the Target Object</i> , pp. 2157-2160.	
Kumagai, Kenzo (Nara Inst. of science and Tech.), Oikawa, Marina Atsumi (Nara Inst. of Science and Tech.), Taketomi, Takafumi (Nara Inst. of Science and Tech.), Yamamoto, Goshiro (Nara Inst. of Science and Tech.), Miyazaki, Jun (Nara Inst. of Science and Tech.), Kato, Hirokazu (Nara Inst. of Science and Tech.)	

12:00-12:20	WeBT1.3
<i>Combining Contrast Saliency and Region Discontinuity for Precise Hand Segmentation in Projector-Camera System</i> , pp. 2161-2164.	
Dai, Jingwen (The Chinese Univ. of Hong Kong), Chung, Chi-kit Ronald (The Chinese Univ. of Hong Kong)	

12:20-12:40	WeBT1.4
<i>Shadow Detection Via Rayleigh Scattering and Mie Theory</i> , pp. 2165-2168.	
Gu, Lin (the Australian National Univ.), Robles-Kelly, Antonio (NICTA)	

12:40-13:00	WeBT1.5
<i>Iterative Clustering and Support Vectors-Based High-Confidence Query Selection for Motor Imagery EEG Signals Classification</i> , pp. 2169-2172.	
Yang, Huijuan (Inst. for Infocomm Res. A*STAR), Guan, Cuntai (Inst. for Infocomm Res.), Ang, Kai Keng (Inst. for Infocomm Res. A*STAR), Zhang, Haihong (Inst. for Infocomm Res.), Wang, Chuanchu (Inst. for Infocomm Res.)	

11:40-12:00	WeBT2.2
<i>Deblurring Depth Blur and Motion Blur Simultaneously by Using Space-Time Coding</i> , pp. 2177-2180.	
Naito, Ryosuke (Nagoya Inst. of Tech.), Kobayashi, Takeyuki (Nagoya Inst. of Tech.), SAKAUE, Fumihiko (Nagoya Inst. of Tech.), Sato, Jun (Nagoya Inst. of Tech.)	

12:00-12:20	WeBT2.3
<i>8-D Reflectance Field for Computational Photography</i> , pp. 2181-2185.	
Tagawa, Seiichi (Osaka Univ.), Mukaigawa, Yasuhiro (Osaka Univ.), Yagi, Yasushi (Osaka Univ.)	

12:20-12:40	WeBT2.4
<i>Assessment of Photo Aesthetics with Efficiency</i> , pp. 2186-2189.	
Lo, Kuo-Yen (Acad. Sinica), LIU, KENG-HAO (Acad. Sinica), Chen, Chu-Song (Acad. Sinica)	

12:40-13:00	WeBT2.5
<i>Video Upscaling with Spatio-Temporal Self-Similar</i>	

WeBT2	Multi-Purpose Hall
Computational Photography (Regular Session)	

Chair: Pal, Chris	École Pol. Montréal
Co-Chair: Sato, Jun	Nagoya Inst. of Tech.

11:20-11:40	WeBT2.1
<i>Learning Human Preferences to Sharpen Images</i> , pp. 2173-2176.	
NAM, MYRA (Univ. of Illinois at Urbana-Champaign), Ahuja, Narendra (-UIUC)	

11:40-12:00	WeBT2.2
<i>Deblurring Depth Blur and Motion Blur Simultaneously by Using Space-Time Coding</i> , pp. 2177-2180.	
Naito, Ryosuke (Nagoya Inst. of Tech.), Kobayashi, Takeyuki (Nagoya Inst. of Tech.), SAKAUE, Fumihiko (Nagoya Inst. of Tech.), Sato, Jun (Nagoya Inst. of Tech.)	

12:00-12:20	WeBT2.3
<i>8-D Reflectance Field for Computational Photography</i> , pp. 2181-2185.	
Tagawa, Seiichi (Osaka Univ.), Mukaigawa, Yasuhiro (Osaka Univ.), Yagi, Yasushi (Osaka Univ.)	

12:20-12:40	WeBT2.4
<i>Assessment of Photo Aesthetics with Efficiency</i> , pp. 2186-2189.	
Lo, Kuo-Yen (Acad. Sinica), LIU, KENG-HAO (Acad. Sinica), Chen, Chu-Song (Acad. Sinica)	

12:40-13:00	WeBT2.5
<i>Video Upscaling with Spatio-Temporal Self-Similar</i>	

Examples, pp. 2190-2193.

Ayvaci, Alper (UCLA), Jin, Hailin (Adobe Systems Incorporated), Lin, Zhe (Adobe), Cohen, Scott (Adobe Systems), Soatto, Stefano (UCLA)

WeBT3	Room 101+102
Registration and Correspondence (Regular Session)	
Chair: Goldgof, Dmitry	Univ. of South Florida
Co-Chair: Laurendeau, Denis	Univ. Laval
11:20-11:40	WeBT3.1
<i>Surface Matching by Curvature Distribution Images Generated Via Gaze Modeling</i> , pp. 2194-2197.	
Maeda, Makoto (Kyushu Inst. of Tech.), Nakamae, Takashi (Kyushu Inst. of Tech.), Inoue, Katsuhiko (Kyushu Inst. of Tech.)	
11:40-12:00	WeBT3.2
<i>Enhancing Motion Segmentation by Combination of Complementary Affinities</i> , pp. 2198-2201.	
Zografos, Vasileios (Linkoping Univ.)	
12:00-12:20	WeBT3.3
<i>3D Tracking of Deformable Surface by Propagating Feature Correspondences</i> , pp. 2202-2205.	
Liu, Ye (Fudan Univ.), Chen, Yan Qiu (Fudan Univ.)	
12:20-12:40	WeBT3.4
<i>Realtime 2D Video/3D LiDAR Registration</i> , pp. 2206-2209.	
Bodensteiner, Christoph (Fraunhofer IOSB), Arens, Michael (Fraunhofer IOSB)	
12:40-13:00	WeBT3.5
<i>3D Shape Isometric Correspondence by Spectral Assignment</i> , pp. 2210-2213.	
pan, xiang (zhejiang Univ. of Tech.), Shapiro, Linda (Univ. of Washington)	
WeBT4	Hall 200
Classification and Tracking (Regular Session)	
Chair: Mori, Greg	Simon Fraser Univ.
Co-Chair: Yuen, Pong C	Hong Kong Baptist Univ.
11:20-11:40	WeBT4.1
<i>Soft-Signed Sparse Coding for Ground-Based Cloud Classification</i> , pp. 2214-2217.	
liu, shuang (Inst. of Automation, Chinese Acad. of Sciences), Wang, Chunheng (Inst. of Automation Chinese Acad. of Sciences), Xiao, Baihua (Inst. of Automation, Chinese Acad. of Sciences), zhang, zhong (Inst. of Automation, Chinese Acad. of Sciences), Shao, Yunxue (Inst. of Automation Chinese Acad. of Sciences)	
11:40-12:00	WeBT4.2
<i>Enhancing Cross-View Object Classification by Feature-Based Transfer Learning</i> , pp. 2218-2221.	
Mo, Yi (Beihang Univ.), Zhang, Zhaoxiang (Beihang Univ.), Wang, Yunhong (Beihang Univ.)	
12:00-12:20	WeBT4.3
<i>Semantic Superpixel Based Vehicle Tracking</i> , pp. 2222-2225.	
Liu, Liwei (Tsinghua Univ.), Xing, Junliang (Tsinghua Univ.), Ai, Haizhou (Tsinghua Univ. China), LAO, Shihong (OMRON Social Solutions Co., LTD)	
12:20-12:40	WeBT4.4
<i>Efficient UAV Video Event Summarization</i> , pp. 2226-2229.	
Trinh, Hoang (IBM Res.), Li, Jun (IBM Res.), Miyazawa, Sachiko (IBM Res.), Moreno, Juan (IBM Res.), Pankanti,	

Sharath (IBM Res.)

12:40-13:00	WeBT4.5
<i>Multiple Local Kernel Integrated Feature Selection for Image Classification</i> , pp. 2230-2233.	
Sun, Yu (Univ. of California, Riverside), Bhanu, Bir (Univ. of California)	
WeBT5	Hall 300
Learning-II (Regular Session)	
Chair: Deguchi, Daisuke	Nagoya Univ.
Co-Chair: Bhanu, Bir	Univ. of California
11:20-11:40	WeBT5.1
<i>Composite Likelihood Estimation for Restricted Boltzmann Machines</i> , pp. 2234-2237.	
Yasuda, Muneki (Tohoku Univ.), Kataoka, Shun (Tohoku Univ.), Waizumi, Yuji (Tohoku Univ.), Tanaka, Kazuyuki (Graduate School of Information Sciences, Tohoku Univ.)	
11:40-12:00	WeBT5.2
<i>I Don't Know the Label: Active Learning with Blind Knowledge</i> , pp. 2238-2241.	
Fang, Meng (Univ. of Tech. Sydney), Zhu, Xingquan (Florida Atlantic Univ.)	
12:00-12:20	WeBT5.3
<i>Map Matching with Hidden Markov Model on Sampled Road Network</i> , pp. 2242-2245.	
Raymond, Rudy (IBM Res. -- Tokyo), Morimura, Tetsuro (IBM Res. - Tokyo), Osogami, Takayuki (IBM Res. - Tokyo), Hirose, Noriaki (Kyoto Univ.)	
12:20-12:40	WeBT5.4
<i>Multi-Task Signal Recovery by Higher Level Hyper-Parameter Sharing</i> , pp. 2246-2249.	
Ali Pitchay, Sakinah (Univ. of Birmingham), Kaban, Ata (Univ. of Birmingham)	
12:40-13:00	WeBT5.5
<i>Learning Markov Networks by Analytic Center Cutting Plane Method</i> , pp. 2250-2253.	
Antoniuk, Kostiantyn (Center for Applied Cybernetics Faculty of ElectricalEngineering.), Franc, Vojtech (Czech Tech. Univ. in Prague), Hlavac, Vaclav (Czech Tech. Univ. Faculty of ElectricalEngineering)	
WePSBT1	Main Hall
Poster Shotgun (09): PR (Regular Session)	
14:00-14:30	WePSBT1.1
<i>HDP-MRF: A Hierarchical Nonparametric Model for Image Segmentation</i> , pp. 2254-2257.	
Nakamura, Takuma (Waseda Univ.), Harada, Tatsuhiko (Waseda Univ.), Suzuki, Tomohiko (Waseda Univ.), Matsumoto, Takashi (Waseda Univ.)	
14:00-14:30	WePSBT1.2
<i>Classification of Surfaces and Inclinations During Outdoor Running Using Shoe-Mounted Inertial Sensors</i> , pp. 2258-2261.	
Schuldhuis, Dominik (Univ. of Erlangen-Nuremberg), Kugler, Patrick (Univ. of Erlangen-Nuremberg), Leible, Magnus (Univ. of Freiburg), Jensen, Ulf (Univ. Erlangen-Nuremberg), Schlarb, Heiko (adidas AG, Herzogenaurach), Eskofier, Bjoern (Univ. of Erlangen-Nuremberg)	
14:00-14:30	WePSBT1.3
<i>Characterizing User-Subgroups in Flickr Group : A Block LDA Based Approach</i> , pp. 2262-2265.	
Negi, Sumit (IBM Res.), Balasubramanyan, Ramnath (CMU),	

Chaudhury, Santanu (Indian Inst. of Tech. Delhi)	Gerlich, Daniel (Inst. for Biochemistry, ETH Zurich)
14:00-14:30 WePSBT1.4	14:00-14:30 WePSBT1.16
<i>Software-Based Performance and Complexity Analysis for the Design of Embedded Classification Systems</i> , pp. 2266-2269.	<i>Training Data Recycling for Multi-Level Learning</i> , pp. 2314-2318.
Ring, Matthias (Univ. of Erlangen-Nuremberg), Jensen, Ulf (Univ. Erlangen-Nuremberg), Kugler, Patrick (Univ. of Erlangen-Nuremberg), Eskofier, Bjoern (Univ. of Erlangen-Nuremberg)	Liu, Jingchen (Pennsylvania State Univ.), McCloskey, Scott (McGill Univ. Honeywell), Liu, Yanxi (Penn State Univ.)
14:00-14:30 WePSBT1.5	14:00-14:30 WePSBT1.17
<i>Robust Online Trajectory Clustering without Computing Trajectory Distances</i> , pp. 2270-2273.	<i>Unsupervised Tibetan Speech Features Learning Based on Dynamic Bayesian Networks</i> , pp. 2319-2322.
Ulm, Michael (Austrian Inst. of Tech.), Braendle, Norbert (Austrian Inst. of Tech.)	Zhao, Yue (Minzu Univ. of China), Xu, Xiaona (Minzu Univ. of China), Yang, Guosheng (Minzu Univ. of China)
14:00-14:30 WePSBT1.6	14:00-14:30 WePSBT1.18
<i>Hyperspectral Image Classification Based on Multiple Improved Particle Swarm Cooperative Optimization and SVM</i> , pp. 2274-2277.	<i>Multitask Multiclass Privileged Information Support Vector Machines</i> , pp. 2323-2326.
Ren, Yuemei (Northwestern Polytechnical University), Zhang, Yanning (Northwestern Pol. Univ.), Meng, Qingjie (Northwestern Pol. Univ.), Zhang, Lei (Northwestern Pol. Univ.)	Ji, You (East China Normal Univ.), Sun, Shiliang (East China Normal Univ.), Lu, Yue (East China Normal Univ.)
14:00-14:30 WePSBT1.7	14:00-14:30 WePSBT1.19
<i>STPCA: Sparse Tensor Principal Component Analysis for Feature Extraction</i> , pp. 2278-2281.	<i>Learning Distance Metric Regression for Facial Age Estimation</i> , pp. 2327-2330.
Wang, Su-Jing (Jilin Univ.), Sun, Ming-Fang (Jilin Univ.), Chen, Yu-Hsin (Jilin Univ.), Pang, Er-Ping (Jilin Univ.), Zhou, Chunguang (Jilin Univ.)	Li, Changsheng (Inst. of Automation, Chinese Acad. of Sciences), Liu, Qingshan (Nanjing Univ. of Information Science and Tech.), liu, jing (National Lab. of Pattern Recognition, Inst.), Lu, Hanqing (Inst. of Automation, Chinese Acad. of Science)
14:00-14:30 WePSBT1.8	14:00-14:30 WePSBT1.20
<i>FastLOF: An Expectation-Maximization Based Local Outlier Detection Algorithm</i> , pp. 2282-2285.	<i>Efficient Classification Using Phrases Generated by Topic Models</i> , pp. 2331-2334.
Goldstein, Markus (German Res. Center for Artificial Intelligence DFKIGmbH)	Gujraniya, Deepak (Indian Inst. of Science. Bangalore), Musti, Narasimha Murty (Indian Inst. of Science-)
14:00-14:30 WePSBT1.9	14:00-14:30 WePSBT1.21
<i>A Filtering Mechanism for Normal Fish Trajectories</i> , pp. 2286-2289.	<i>A Discriminative Parametric Approach to Video-Based Score-Level Fusion for Biometric Authentication</i> , pp. 2335-2338.
Beyan, Cigdem (Univ. of Edinburgh, School of Informatics, IPAB), Fisher, Robert (Univ. of Edinburgh)	Poh, Norman (Univ. of Surrey), Kittler, Josef (Univ. of Surrey), Alkoot, Fuad (HITN.)
14:00-14:30 WePSBT1.10	14:00-14:30 WePSBT1.22
<i>Semi-Supervised Adaptive Parzen Gentleboost Algorithm for Fault Diagnosis</i> , pp. 2290-2293.	<i>Incremental Support Vector Clustering with Outlier Detection</i> , pp. 2339-2342.
Li, Chengliang (Northwestern Pol. Univ.), Wang, Zhongsheng (Northwestern Pol. Univ.), Bu, Shuhui (Northwestern Pol. Univ.), Liu, Zhenbao (Northwestern Pol. Univ.)	Huang, Dong (Sun Yat-sen Univ.), Lai, Jian-huang (Sun Yat-sen Univ.), Wang, Chang-Dong (Sun Yat-sen Univ.)
14:00-14:30 WePSBT1.11	14:00-14:30 WePSBT1.23
<i>Non-Markovian Dynamic TimeWarping</i> , pp. 2294-2297.	<i>Face Recognition Using Multi-Modal Binary Patterns</i> , pp. 2343-2346.
Uchida, Seiichi (Kyushu Univ.), Fukutomi, Masahiro (Kyushu Univ.), Ogawara, Koichi (Wakayama Univ.), Feng, Yaokai (Kyushu Univ.)	Nguyen, Thanh Phuong (LORIA), VU, Ngoc-Son (Gipsa-Lab.), Caplier, Alice (GIPSA-Lab. Grenoble Univ.)
14:00-14:30 WePSBT1.12	14:00-14:30 WePSBT1.24
<i>On the Relation between K-Means and PLSA</i> , pp. 2298-2301.	<i>Sketch-Based Face Alignment for Thermal Face Recognition</i> , pp. 2347-2350.
Roy Chaudhuri, Arghya (Indian Inst. of Science), Musti, Narasimha Murty (Indian Inst. of Science-)	Sun, Lin (Zhejiang Univ. city Coll.), Dai, XiaoXia (Zhejiang Univ. city Coll.)
14:00-14:30 WePSBT1.13	14:00-14:30 WePSBT1.25
<i>Probabilistic Shape Parsing for View-Based Object Recognition</i> , pp. 2302-2305.	<i>Fusing Biographical and Biometric Classifiers for Improved Person Identification</i> , pp. 2351-2354.
Macrini, Diego (Univ. of Ottawa), Whiten, Chris (Univ. of Ottawa), Laganriere, Robert (-), Greenspan, Michael (Queen's Univ.)	Tyagi, Vivek (IBM Res. India), K, Hima Prasad (IBM Res. India), Faruque, Tanveer (IBM Res. India), Subramaniam, L. Venkata (IBM Res. India), Ratha, Nalini (IBM Res.)
14:00-14:30 WePSBT1.14	14:00-14:30 WePSBT1.26
<i>Learning-Based Mitotic Cell Detection in Histopathological Images</i> , pp. 2306-2309.	<i>Time Series Alignment with Gaussian Processes</i> , pp. 2355-2358.
Sommer, Christoph (ETH Zurich), Fiaschi, Luca (HCI/IWR Heidelberg), Hamprecht, Fred Andreas (Univ. of Heidelberg),	Suematsu, Nobuo (Hiroshima City Univ.), Hayashi, Akira (Hiroshima City Univ.)
	14:00-14:30 WePSBT1.27
	<i>Placing Landmarks Suitably for Shape Analysis by</i>

Optimization, pp. 2359-2362.

Iwata, Kazunori (Hiroshima City Univ.)

14:00-14:30 WePSBT1.28

A Hierarchical Algorithm with Multi-Feature Fusion for Facial Expression Recognition, pp. 2363-2366.

Zhang, Zheng (Tsinghua Univ.), Fang, Chi (Tsinghua Univ.), Ding, Xiaoqing (Tsinghua Univ.)

14:00-14:30 WePSBT1.29

Appearance Modeling for Person Re-Identification Using Weighted Brightness Transfer Functions, pp. 2367-2370.

Datta, Ankur (IBM T. J. Watson Res. Center), Brown, Lisa (IBM T. J. Watson Res. Center), Feris, Rogerio (IBM Res.), Pankanti, Sharath (IBM Res.)

14:00-14:30 WePSBT1.30

Learning Feature Weights of Symbols, with Application to Symbol Spotting, pp. 2371-2374.

Nayef, Nibal (Tech. Univ. of Kaiserslautern), Afzal, Muhammad Zeshan (Tech. Univ. of Kaiserslautern), Breuel, Thomas (Univ. of Kaiserslautern)

14:00-14:30 WePSBT1.31

SuStorID: A Multiple Classifier System for the Protection of Web Services, pp. 2375-2378.

Corona, Igino (Univ. of Cagliari, Italy), Tronci, Roberto (Univ. of Cagliari), Giacinto, Giorgio (Univ. of Cagliari)

14:00-14:30 WePSBT1.32

A Score-Level Fusion Method with Prior Knowledge for Fingerprint Matching, pp. 2379-2382.

Zang, Yali (Inst. of Automation, Chinese Acad. of Sciences), Yang, Xin (Insititute of Automation, Chinese Acad. of Sciences), Cao, Kai (School of Life Sciences and Tech. Xidian Univ.), Jia, Xiaofei (Insititute of Automation, Chinese Acad. of Sciences), Zhang, Ning (Insititute of Automation, Chinese Acad. of Sciences), Tian, Jie (Insititute of Automation, Chinese Acad. of Sciences)

14:00-14:30 WePSBT1.33

View-Invariant Gait Recognition from Low Frame-Rate Videos, pp. 2383-2386.

Mansur, Ai (Osaka Univ.), Makihara, Yasushi (The Inst.), Yagi, Yasushi (Osaka Univ.)

14:00-14:30 WePSBT1.34

Visualizing Vein Patterns from Color Skin Images Based on Image Mapping for Forensics Analysis, pp. 2387-2390.

Tang, Chaoying (School of Computer Engineering, Nanyang Tech. Univ.), Zhang, Hengyi (School of Computer Engineering, Nanyang Tech. Univ.), Kong, Adams (Nanyang Tech. Univ.), Craft, Noah (2Department of Medicine, Los Angeles Biomedical Res. Inst.)

14:00-14:30 WePSBT1.35

Dual Subspace Nonnegative Matrix Factorization for Person-Invariant Facial Expression Recognition, pp. 2391-2394.

Tu, Yi-Han (National Tsing Hua Univ.), Hsu, Chiou-Ting (National Tsing Hua Univ.)

14:00-14:30 WePSBT1.36

Non-Parametric Score Normalization for Biometric Verification Systems, pp. 2395-2399.

Struc, Vitomir (Univ. of Ljubljana), Zganec Gros, Jerneja (Alpinoen Ltd.), Pavesic, Nikola (Univ. of Ljubljana, Faculty of Electrical Engineering)

14:00-14:30 WePSBT1.37

Fingerprint Matching Utilizing Non-Distal Phalanges, pp. 2400-2403.

Topçu, Berkay (Sabancı Univ.), Kayaoglu, Mehmet (TUBITAK BILGEM UEKAE), Kilinc, Merve (TUBITAK BILGEM UEKAE),

Uludag, Umut (TUBITAK-BILGEM-UEKAE)

14:00-14:30 WePSBT1.38

Motion Histogram Quantification for Human Action Recognition, pp. 2404-2407.

Tabia, Hedi (IEF, Inst. d'Electronique Fondamentale), Gouiffès, Michèle (IEF Univ. Paris Sud 11), Lacassagne, Lionel (IEF Univ. Paris Sud 11)

14:00-14:30 WePSBT1.39

Age-Invariant Face Verification Based on Local Classifier Ensemble, pp. 2408-2411.

Mao, Xiaojiao (Nanjing Univ.), YANG, YU-BIN (NANJING Univ.), LI, NING (NANJING Univ.), ZHANG, YAO (NANJING Univ.)

14:00-14:30 WePSBT1.40

A Multiple Kernel Learning Approach to Multi-Modal Pedestrian Classification, pp. 2412-2415.

San Biagio, Marco (Istituto Italiano di Tecnologia), Ulas, Aydin (Univ. degli Studi di Verona), Crocco, Marco (Istituto Italiano di Tecnologia), Cristani, Marco (Univ. of Verona), Castellani, Umberto (Univ. of Verona), Murino, Vittorio (Univ. of Verona)

14:00-14:30 WePSBT1.41

Enhancing Biometric Security with Wavelet Quantization Watermarking Based Two-Stage Multimodal Authentication, pp. 2416-2419.

Ma, Bin (Beihang Univ.), Li, ChunLei (Beihang Univ.), Wang, Yunhong (Beihang Univ.), Zhang, Zhaoxiang (Beihang Univ.), Huang, Di (Beihang Univ.)

14:00-14:30 WePSBT1.42

Iris Recognition Using Ordinal Encoding of Log-Euclidean Covariance Matrices, pp. 2420-2423.

Li, Peihua (Heilongjiang Univ.), Wu, Guolong (Heilongjiang Univ.)

14:00-14:30 WePSBT1.43

F-Measure Optimisation in Multi-Label Classifiers, pp. 2424-2427.

Pillai, Ignazio (Univ. of Cagliari), Fumera, Giorgio (Univ. of Cagliari), Roli, Fabio (Univ. of Cagliari)

14:00-14:30 WePSBT1.44

Combining General Multi-Class and Specific Two-Class Classifiers for Improved Customized ECG Heartbeat Classification, pp. 2428-2431.

Ye, Can (Carnegie Mellon University), Kumar, BVK Vijaya (Carnegie Mellon Univ.), Coimbra, Miguel (Univ. of Porto)

14:00-14:30 WePSBT1.45

Facial Image-Based Gender Classification Using Local Circular Patterns, pp. 2432-2435.

Wang, Chen (Beihang Univ.), Huang, Di (Beihang Univ.), Wang, Yunhong (Beihang Univ.), Zhang, Guangpeng (Beihang Univ.)

**WePSBT2 Multi-Purpose Hall
Poster Shotgun (10): CV (Regular Session)**

14:00-14:30 WePSBT2.1

Arrangement Based Image Representation for Scene Recognition, pp. 2436-2439.

Somanath, Gowri (Univ. of Delaware), Kambhamettu, Chandra (Univ. of Delaware)

14:00-14:30 WePSBT2.2

Efficient Statistical/Morphological Cell Texture Characterization and Classification, pp. 2440-2443.

THIBAUT, Guillaume (Center for Mathematical Morphology, Mines-ParisTech), Angulo, Jesus (MINES ParisTech)

14:00-14:30	WePSBT2.3	Roca, F. Xavier (Computer Vision Center - Univ. Autònoma de Barcelona)
<i>Parallelized Annealed Particle Filter for Real-Time Marker-Less Motion Tracking Via Heterogeneous Computing</i> , pp. 2444-2447.		
Bian, Yatao (Shanghai Jiao tong Univ.), Zhao, Xu (Shanghai Jiao tong Univ.), Song, Jian (Shanghai Jiao tong Univ.), Liu, Yuncai (Shanghai Jiao Tong Univ.)		
14:00-14:30	WePSBT2.4	
<i>Multi-Pose Face Detection for Accurate Face Logging</i> , pp. 2448-2451.		
Bagdanov, Andrew (Univ. of Florence), Del Bimbo, Alberto (Univ. of Florence), Lisanti, Giuseppe (Univ. of Florence), Masi, Iacopo (Univ. of Florence)		
14:00-14:30	WePSBT2.5	
<i>Image Classification Using HTM Cortical Learning Algorithms</i> , pp. 2452-2455.		
Zhuo, Wen (Huazhong Uni. of Sci. and Tech.), Cao, Zhiguo (Huazhong Univ. of Science and Tech.), Xiao, Yang (Nanyang Tech. Univ.), Qin, Yueming (Huazhong Univ. of Science and Tech.), Yu, Zhenghong (Huazhong Univ. of Science and Tech.)		
14:00-14:30	WePSBT2.6	
<i>Real-Time Hand Status Recognition from RGB-D Imagery</i> , pp. 2456-2459.		
Bagdanov, Andrew (Univ. of Florence), Del Bimbo, Alberto (Univ. of Florence), Seidenari, Lorenzo (Media Integration and Communication Center - Univ. of Floren), Usai, Lorenzo (Media Integration and Communication Center - Univ. of Flore)		
14:00-14:30	WePSBT2.7	
<i>Using Spatial Pyramids with Compacted VLAT for Image Categorization</i> , pp. 2460-2463.		
Negrel, Romain (ETIS/ENSEA - CNRS UMR 8051), Picard, David (ETIS/ENSEA CNRS UMR 8051), Gosselin, Philippe Henri (CNRS)		
14:00-14:30	WePSBT2.8	
<i>A Novel, Efficient, Tree-Based Descriptor and Matching Algorithm</i>		
Fowers, Spencer (Brigham Young Univ.), Lee, Dah-Jye (Brigham Young Univ.), Ventura, Dan (Brigham Young Univ.), Wilde, Doran (Brigham Young Univ.)		
14:00-14:30	WePSBT2.9	
<i>RGBD Object Pose Recognition Using Local-Global Multi-Kernel Regression</i> , pp. 2468-2471.		
El-Gaaly, Tarek (Rutgers Univ.), Torki, Marwan (Rutgers Univ.), Elgammal, Ahmed (Rutgers Univ.), Singh, Maneesh (Siemens Corp. Res.)		
14:00-14:30	WePSBT2.10	
<i>Video Figure Ground Labeling</i> , pp. 2472-2475.		
Elqursh, Ali (Rutgers Univ.), Elgammal, Ahmed (Rutgers Univ.)		
14:00-14:30	WePSBT2.11	
<i>Local Phase Quantization Descriptors for Blur Robust and Illumination Invariant Recognition of Color Textures</i> , pp. 2476-2479.		
Pedone, Matteo (Univ. of Oulu), Heikkilä, Janne (Univ. of Oulu)		
14:00-14:30	WePSBT2.12	
<i>Dense Reconstruction by Stereo-Motion under Perspective Camera Model</i> , pp. 2480-2483.		
Fang, Mu (The Chinese Univ. of Hong Kong), Chung, Chi-kit Ronald (The Chinese Univ. of Hong Kong)		
14:00-14:30	WePSBT2.13	
<i>3D Human Pose Estimation Using 2D Body Part Detectors</i> , pp. 2484-2487.		
Barbulescu, Adela (Aalborg Univ.), Gong, Wenjuan (cvc), Gonzalez, Jordi (Centre de Visio per Computador, Univ. Autònoma de Barcelona), Moeslund, Thomas (Aalborg Univ.),		
14:00-14:30	WePSBT2.14	
<i>Matting-Driven Online Learning of Hough Forests for Object Tracking</i> , pp. 2488-2491.		
Qin, Tao (Xiamen Univ.), Zhong, Bineng (Huaqiao Univ.), Chin, Tat-Jun (The Univ. of Adelaide), Wang, Hanzi (Xiamen Univ.)		
14:00-14:30	WePSBT2.15	
<i>Face Pose Estimation with Combined 2D and 3D HOG Features</i> , pp. 2492-2495.		
Yang, Jiaolong (Beijing Inst. of Tech.), Liang, Wei (Beijing Lab. of Intelligent Information Tech.), Jia, Yunde (Beijing Inst. of Tech.)		
14:00-14:30	WePSBT2.16	
<i>Evaluation of Local Feature Descriptors and Their Combination for Pedestrian Representation</i> , pp. 2496-2499.		
Liang, Jixiang (Graduate Univ. of Chinese Acad. of Sciences), Ye, Qixiang (graduate Univ. of the Chinese Acad. and sciences), Chen, Jie (Univ. of Oulu, Finland), Jiao, Jianbin (graduate Univ. of the Chinese Acad. and sciences)		
14:00-14:30	WePSBT2.17	
<i>Multi-Dimensional Local Binary Pattern Descriptors for Improved Texture Analysis</i> , pp. 2500-2503.		
Schaefer, Gerald (Loughborough Univ.), Doshi, Niraj P. (Loughborough Univ.)		
14:00-14:30	WePSBT2.18	
<i>Exploiting Ramp Structures for Improving Optical Flow Estimation</i> , pp. 2504-2507.		
Singh, Abhishek (Univ. of Illinois at Urbana-Champaign), Ahuja, Narendra (-UIUC)		
14:00-14:30	WePSBT2.19	
<i>Integrating Bottom-Up and Top-Down Processes for Accurate Pedestrian Counting</i> , pp. 2508-2511.		
Lin, Yujie (Sun Yat-Sen Univ.), Liu, Ning (Sun Yat-Sen Univ.)		
14:00-14:30	WePSBT2.20	
<i>Context-Driven Moving Vehicle Detection in Wide Area Motion Imagery</i> , pp. 2512-2515.		
Shi, Xinchu (Inst. of Automation), Ling, Haibin (Temple Univ.), Blasch, E (Air Force Res. Lab.), Hu, Weiming (National Lab. of Pattern Recognition, Inst.)		
14:00-14:30	WePSBT2.21	
<i>Shape Prior Regularized Continuous Max-Flow Approach to Image Segmentation</i> , pp. 2516-2519.		
Duan, Yuping (Inst. for Infocomm Res.), Huang, Weimin (I2R), Chang, Huibin (Tianjin Normal Univ.)		
14:00-14:30	WePSBT2.22	
<i>Segmentation and Tracking of Multiple Interacting Mice by Temperature and Shape Information</i> , pp. 2520-2523.		
Giancardo, Luca (Istituto Italiano di Tecnologia (IIT)), Sona, Diego (Istituto Italiano di Tecnologia (IIT)), Scheggia, Diego (Istituto Italiano di Tecnologia (IIT)), Papaleo, Francesco (Istituto Italiano di Tecnologia (IIT)), Murino, Vittorio (Univ. of Verona)		
14:00-14:30	WePSBT2.23	
<i>Object Detection Via Foreground Contour Feature Selection and Part-Based Shape Model</i> , pp. 2524-2527.		
Zhang, Huigang (Beihang Univ.), Wang, Junxiu (Beihang Univ.), Bai, Xiao (Beihang Univ.), Zhou, Jun (Australian National Univ.), Cheng, Jian (Inst. of Automation, Chinese Acad. of Science), Zhao, Huijie (Beihang Univ. China)		
14:00-14:30	WePSBT2.24	
<i>Key Observation Selection for Effective Video Synopsis</i> , pp. 2528-2531.		

Zhu, Xiaobin (Inst. of Automation, Chinese Acad. of Sciences), Liu, Jing (National Lab. of Pattern Recognition, Inst.), Wang, Jinqiao (Chinese Acad. of Science), Lu, Hanqing (Inst. of Automation, Chinese Acad. of Science)	Jiaotong Univ.), Zhang, Geng (Xi'an Jiaotong Univ.), Zheng, Nanning (Xi'an Jiaotong Univ.)
14:00-14:30 WePSBT2.25	14:00-14:30 WePSBT2.35
<i>3D Tracking of Soccer Players Using Time-Situation Graph in Monocular Image Sequence</i> , pp. 2532-2536.	<i>Visual Cortex Inspired Features for Object Detection in X-Ray Images</i> , pp. 2573-2576.
Itoh, Hiroki (Kobe Univ.), Takiguchi, Tetsuya (Kobe Univ.), Ariki, Yasuo (Kobe Univ.)	Schmidt-Hackenberg, Ludwig (Univ. of Kaiserslautern), Yousefi, Mohammad Reza (Univ. of Kaiserslautern), Breuel, Thomas (Univ. of Kaiserslautern)
14:00-14:30 WePSBT2.26	14:00-14:30 WePSBT2.36
<i>Invariant Signatures for Omnidirectional Visual Place Recognition and Robot Localization in Unknown Environments</i> , pp. 2537-2540.	<i>3D Facial Expression Recognition Via Multiple Kernel Learning of Multi-Scale Local Normal Patterns</i> , pp. 2577-2580.
MARIE, Romain (Univ. de Picardie Jules Verne), Labbani-Igbida, Ouidad (Univ. of Picardie Jules Verne), Mouaddib, El Mustapha (MIS Lab. Univ. de Picardie Jules Verne)	Li, HuiBin (Ec. Centrale de Lyon), Chen, Liming (Ec. Centrale de Lyon), Huang, Di (Beihang Univ.), Wang, Yunhong (Beihang Univ.), Morvan, Jean-Marie (Univ. Lyon 1, Inst. Camille Jordan, 43 Blvd du 11 Novembr)
14:00-14:30 WePSBT2.27	14:00-14:30 WePSBT2.37
<i>Covariance Profiles: A Signature Representation for Object Sets</i> , pp. 2541-2544.	<i>Stereo-Based Tracking of Multiple Overlapping Persons</i> , pp. 2581-2585.
Kolar Rajagopal, Anoop (Indian Inst. of Science), Mitra, Adway (Indian Inst. of Science), Bonde, Ujwal (Indian Inst. of Science), Bhattacharyya, Chiranjib (Indian Inst. of Science, Bangalore, Karnataka, 560012), Kalpathi, Ramakrishnan (Indian Inst. of Science, Bangalore)	Satake, Junji (ToyoHashi Univ. of Tech.), Miura, Jun (ToyoHashi Univ. of Tech.)
14:00-14:30 WePSBT2.28	14:00-14:30 WePSBT2.38
<i>Towards a Robust Hand-Eye Calibration Using Normal Flows</i> , pp. 2545-2548.	<i>Automatic Face Annotation by Multilinear AAM with Missing Values</i> , pp. 2586-2589.
Hui, Tak-Wai (The Chinese Univ. of Hong Kong), Chung, Chi-kit Ronald (The Chinese Univ. of Hong Kong)	Feng, Zhenhua (Univ. of Surrey), Kittler, Josef (Univ. of Surrey), Christmas, William (Univ. of Surrey), Wu, Xiaojun (Jiangnan Univ.), Pfeiffer, Sebastian (Goethe Univ. Frankfurt/Main)
14:00-14:30 WePSBT2.29	14:00-14:30 WePSBT2.39
<i>Visual Description and Recognition of Mechanical Tools with a Silhouette-Based Approach</i> , pp. 2549-2552.	<i>Anomaly Detection with Spatio-Temporal Context Using Depth Images</i> , pp. 2590-2593.
Pazzaglia, Fabio (Univ. of Florence, Italy), Colombo, Carlo (Univ. of Florence)	Ma, Xiaolin (Nanjing Univ.), Lu, Tong (Nanjing Univ.), Xu, Feiming (Nanjing Univ.), Su, Feng (Nanjing Univ.)
14:00-14:30 WePSBT2.30	14:00-14:30 WePSBT2.40
<i>Pose Estimation from Minimal Dual-Receiver Configurations</i> , pp. 2553-2556.	<i>Pedestrian Lane Detection for Assistive Navigation of Blind People</i> , pp. 2594-2597.
Burgess, Simon (Lund Univ.), Kuang, Yubin (Lund Univ.), Astroem, Kalle (Lund Univ.)	Le, Manh Cuong (Univ. of Wollongong), Phung, Son Lam (Univ. of Wollongong), Bouzerdoun, Abdesselam (Univ. of Wollongong)
14:00-14:30 WePSBT2.31	14:00-14:30 WePSBT2.41
<i>Fast Automatic Saliency Map Driven Geometric Active Contour Model for Color Object Segmentation</i> , pp. 2557-2560.	<i>Video Object Segmentation by Clustering Region Trajectories</i> , pp. 2598-2601.
Nguyen, Tran Lan Anh (Chonnam National Univ.), Vo, Quang Nhat (Chonnam National Univ.), Kodirov, Elyor (Chonnam National Univ.), Kim, Soohyung (Chonnam National Univ.), Lee, Gueesang (Chonnam National Univ.)	Zhang, Geng (Xi'an Jiaotong Univ.), Yuan, Zejian (Xi'an Jiaotong Univ.), Chen, Dapeng (Xi'an Jiaotong Univ.), Liu, Yuehu (Xi'an Jiaotong Univ.), Zheng, Nanning (Xi'an Jiaotong Univ.)
14:00-14:30 WePSBT2.32	14:00-14:30 WePSBT2.42
<i>Traffic Accident Risk Analysis Based on Relation of Common Route Models</i> , pp. 2561-2564.	<i>Removal of Dust Artifacts from Focal Stack Image Sequences</i> , pp. 2602-2605.
ER, Uygur (Yildiz Tech. Univ.), YUKSEL, Suleyman (Yildiz Tech. Univ.), Akoz, Omer (Yildiz Tech. Univ.), Karsligil, M. Elif (Yildiz Tech. Univ.)	Li, Chen (Zhejiang Univ.), Zhou, Kun (Zhejiang Univ.), Lin, Stephen (Microsoft Res. Asia)
14:00-14:30 WePSBT2.33	14:00-14:30 WePSBT2.43
<i>Joint Shot Boundary Detection and Key Frame Extraction</i> , pp. 2565-2568.	<i>Visual Saliency: A Manifold Way of Perception</i> , pp. 2606-2609.
Liu, Xiao (Zhejiang Univ.), Song, Mingli (Zhejiang Univ.), Zhang, Luming (Zhejiang Univ.), Wang, Senlin (Zhejiang Univ.), Bu, Jiajun (Zhejiang Univ.), Chen, Chun (Zhejiang Univ.), Tao, Dacheng (Nanyang Tech. Univ.)	Zhu, Hao (Beijing Normal Univ.), Han, Biao (Shanghai Univ.), Ruan, Xiang (Omron cooperation)
14:00-14:30 WePSBT2.34	14:00-14:30 WePSBT2.44
<i>Detecting Occlusion Boundaries Via Saliency Network</i> , pp. 2569-2572.	<i>Binary Invariant Cross Color Descriptor Using Galaxy Sampling</i> , pp. 2610-2613.
Chen, Dapeng (Xi'an Jiaotong Univ.), Yuan, Zejian (Xi'an	Huang, Guo-Hao (National Chung-Hsing Univ.), Huang, Chun-Rong (National Chung-Hsing Univ.)
	14:00-14:30 WePSBT2.45
	<i>Dissociating Rigid and Articulated Motion for Hand</i>

Tracking, pp. 2614-2617.

Martinez, Oriol (Univ. Pompeu Fabra), Cirujeda, Pol (Univ. Pompeu Fabra), Ferraz, Luis (Univ. Pompeu Fabra), Binefa, Xavier (Univ. Pompeu Fabra)

14:00-14:30 WePSBT2.46

Stereo Matching on Low Intensity Quantization Images, pp. 2618-2621.

Lin, Huei-Yung (National Chung Cheng Univ.)

WeCT1 Main Hall

Medical Registration and Spatio-Temporal Analysis (Regular Session)

Chair: Kensaku, Mori Nagoya Univ.

14:30-14:50 WeCT1.1

Spectral Clustering to Model Deformations for Fast Multimodal Prostate Registration, pp. 2622-2625.

Mitra, Jhimli (Univ. de Bourgogne), Kato, Zoltan (Univ. of Szeged), Ghose, Soumya (Univ. de Bourgogne), SIDIBE, DESIRE (Univ. de Bourgogne), Martí, Robert (Univ. of Girona), Llado, Xavier (Univ. of Girona), Oliver, Arnau (Univ. of Girona), Vilanova, Joan C. (Girona Magnetic Res. Center), Meriaudeau, Fabrice (LE2I)

14:50-15:10 WeCT1.2

Learning-Based Deformable Registration Using Weighted Mutual Information, pp. 2626-2629.

Lu, YongNing (National Univ. of Singapore), Liao, Rui (Siemens Corp. Corp. Res. and Tech.), Zhang, Li (Siemens Corp. Corp. Res. and Tech.), Sun, Ying (National Univ. of Singapore), Chefid'hotel, Christophe (Siemens Corp. Corp. Res. and Tech.), Ong, Sim Heng (National Univ. of Singapore)

15:10-15:30 WeCT1.3

Automated Detection of Skeletal Muscle Twitches from B-Mode Ultrasound Images: An Application to Motor Neuron Disease, pp. 2630-2633.

Harding, Peter John (Manchester Metropolitan Univ.), Hodson-Tole, Emma (Manchester Metropolitan Univ.), Cunningham, Ryan James (Manchester Metropolitan Univ.), Costen, Nicholas Paul (Manchester Metropolitan Univ.), Loram, Ian (Manchester Metropolitan Univ.)

15:30-15:50 WeCT1.4

Neural-Net Classification for Spatio-Temporal Descriptor Based Depression Analysis, pp. 2634-2638.

Joshi, Jyoti (Univ. of Canberra), Dhall, Abhinav (Australian National Univ.), Goecke, Roland (Univ. of Canberra), Breakspear, Michael (Univ. of New South Wales), Parker, Gordon (Univ. of New South Wales)

15:50-16:10 WeCT1.5

Feature-Aligned 4D Spatiotemporal Image Registration, pp. 2639-2642.

Xu, Huanhuan (LSU), Chen, Peizhi (Xiamen Univ.), Yu, Wuyi (LSU), Sawant, Amit (UT Southwestern Medical Center), Iyengar, S.S (Florida International), Li, Xin (Louisiana State Univ.)

WeCT2 Multi-Purpose Hall

Applications of Image and Signal Processing (Regular Session)

Chair: Sebe, Nicu Univ. of Trento

Co-Chair: Ho, Shen-Shyang Nanyang Tech. Univ.

14:30-14:50 WeCT2.1

An Effective Vortex Detection Approach for Velocity Vector Field, pp. 2643-2646.

Ho, Shen-Shyang (Nanyang Tech. Univ.)

14:50-15:10 WeCT2.2

Robust Detection of Single-Frame Defects in Archived Film, pp. 2647-2650.

Wechtitsch, Stefanie (JOANNEUM Res.), Fassold, Hannes (JOANNEUM Res.), Schallauer, Peter (JOANNEUM Res. Forschungsgesellschaft m.b.H.)

15:10-15:30 WeCT2.3

Coupling Reduced Models for Optimal Motion Estimation, pp. 2651-2654.

Drifi, Karim (INRIA), Herlin, Isabelle (INRIA)

15:30-15:50 WeCT2.4

Detection of Bubbles As Concentric Circular Arrangements, pp. 2655-2659.

Strokina, Nataliya (Lappeenranta Univ. of Tech. (LUT)), Matas, Jiri (CTU Prague), Eerola, Tuomas (Lappeenranta Univ. of Tech.), Lensu, Lasse (Lappeenranta Univ. of Tech.), Kalviainen, Heikki (Lappeenranta Univ. of Tech.)

15:50-16:10 WeCT2.5

Bayesian Separation of Wind Power Generation Signals, pp. 2660-2663.

Yoon, Ji Won (IBM Res.), Fusco, Francesco (IBM), Wurst, Michael (IBM Res.)

WeCT3 Room 101+102

Matching (Regular Session)

Chair: Saito, Hideo Keio Univ.

Co-Chair: Tao, Dacheng Nanyang Tech. Univ.

14:30-14:50 WeCT3.1

Image Contextual Representation and Matching through Hierarchies and Higher Order Graphs, pp. 2664-2667.

Rubio Ballester, Jose C. (Computer Vision Center. UAB), Serrat, Joan (Univ. Autònoma de Barcelona), López Peña, Antonio M. (CVC-UAB), Paragios, Nikos (Ec. Centrale de Paris)

14:50-15:10 WeCT3.2

Manhattan-Pyramid Distance: A Solution to an Anomaly in Pyramid Matching by Minimization, pp. 2668-2672.

Chauhan, Aneesh (Univ. of Aveiro), Seabra Lopes, Luís (Univ. of Aveiro)

15:10-15:30 WeCT3.3

Robust and Accurate Multi-View Reconstruction by Prioritized Matching, pp. 2673-2676.

Ylimäki, Markus (Univ. of Oulu), Kannala, Juho (Univ. of Oulu), Holappa, Jukka (Univ. of Oulu), Heikkilä, Janne (Univ. of Oulu), Brandt, Sami Sebastian (Univ. of Copenhagen)

15:30-15:50 WeCT3.4

Combining Color and Geometry for Local Image Matching, pp. 2677-2680.

Mazin, Baptiste (Telecom ParisTech, LTCI CNRS), Delon, Julie (CNRS, Telecom ParisTech), Gousseau, Yann (Telecom Paris)

15:50-16:10 WeCT3.5

Evaluation of Local Detectors and Descriptors for Fast Feature Matching, pp. 2681-2684.

Miksik, Ondrej (Brno Univ. of Tech.), Mikolajczyk, Krystian (Univ. of Surrey)

WeCT4 Hall 200

Surveillance and Security (Regular Session)

Chair: Taniguchi, Rin-ichiro Kyushu Univ.

Co-Chair: Hlavac, Vaclav Czech Tech. Univ. Faculty of ElectricalEngineering

14:30-14:50 WeCT4.1

Learning to Count with Regression Forest and Structured Labels, pp. 2685-2688.

Fiaschi, Luca (HCI/IWR Heidelberg), Nair, Rahul (HCI/IWR Heidelberg), Koethe, Ullrich (HCI/IWR Heidelberg), Hamprecht, Fred Andreas (Univ. of Heidelberg)

14:50-15:10 WeCT4.2

Edge Detection for Facial Images under Noisy Conditions, pp. 2689-2693.

Madabusi, Sudarshan (International Inst. of Information Tech. Hyderabad), Gangashetty, Suryakanth (International Inst. of Information Tech. Gachibowli, H)

15:10-15:30 WeCT4.3

Person Re-Identification Using View-Dependent Score-Level Fusion of Gait and Color Features, pp. 2694-2697.

Kawai, Ryo (Osaka Univ.), Makihara, Yasushi (The Inst.), Hua, Chunsheng (Osaka Univ.), Iwama, Haruyuki (Osaka Univ.), Yagi, Yasushi (Osaka Univ.)

15:30-15:50 WeCT4.4

Camera Pan / Tilt Control with Multiple Trackers, pp. 2698-2701.

Li, Yiming (Univ. of California at Riverside), Bhanu, Bir (Univ. of California)

15:50-16:10 WeCT4.5

Joining Feature-Based and Similarity-Based Pattern Description Paradigms for Object Detection, pp. 2702-2705.

Martelli, Samuele (Istituto Italiano di Tecnologia), Cristani, Marco (Univ. of Verona), Bazzani, Loris (Univ. of Verona), Tosato, Diego (Univ. of Verona), Murino, Vittorio (Univ. of Verona)

WeCT5 Hall 300

Learning and Boosting (Regular Session)

Chair: Tamaki, Toru Hiroshima Univ.

Co-Chair: Mori, Greg Simon Fraser Univ.

14:30-14:50 WeCT5.1

Multiple Instance Real Boosting with Aggregation Functions, pp. 2706-2710.

Hajimirsadeghi, Hossein (Simon Fraser Univ.), Mori, Greg (Simon Fraser Univ.)

14:50-15:10 WeCT5.2

Weighted Conditional Mutual Information Based Boosting for Classification of Imbalanced Datasets, pp. 2711-2714.

Utasi, Ákos (MTA-SZTAKI)

15:10-15:30 WeCT5.3

Compressed Submanifold Multifactor Analysis with Adaptive Factor Structures, pp. 2715-2718.

Luu, Khoa (Carnegie Mellon Univ.), Savvides, Marios (Carnegie Mellon Univ.), Bui, Tien D. (Concordia Univ.), Suen, Ching Y (Concordia Univ.)

15:30-15:50 WeCT5.4

Unsupervised Skeleton Learning for Manifold Denoising, pp. 2719-2722.

Sun, Ke (Univ. of Geneva), Bruno, Eric (Knowledge Discovery & Data Mining, Firmenich S.A.), Marchand-Maillet, Stephane (Univ. of Geneva)

15:50-16:10 WeCT5.5

Efficient and Accurate Learning of Bayesian Networks Using Chi-Squared Independence Tests, pp. 2723-2726.

TANG, YI (Center of Excellence for Document Analysis and Recognition, Univ.), Srihari, Sargur (Univ. at Buffalo, The State Univ. of New York)

WeDT1 Main Hall

Geometric/Photometric Registration and Inpainting (Regular Session)

Chair: Mase, Kenji Nagoya Univ.

Co-Chair: Arth, Clemens Graz Univ. of Tech.

16:50-17:10 WeDT1.1

Multi-Camera Rectification Using Linearized Trifocal Tensor, pp. 2727-2731.

Zilly, Frederik Leonhard (Fraunhofer Heinrich Hertz Inst.), Riechert, Christian (Fraunhofer Inst. for Telecommunications - Heinrich Hertz Inst.), Müller, Marcus (Fraunhofer Inst. for Telecommunications - Heinrich Hertz Inst.), Waizenegger, Wolfgang (Fraunhofer Heinrich Hertz Inst.), Sikora, Thomas (Tech. Univ. Berlin, Communication Systems Group), Kauff, Peter (Fraunhofer Inst. for Telecommunications - Heinrich Hertz Inst.)

17:10-17:30 WeDT1.2

Contrast-Enhancing Seam Detection and Blending Using Graph Cuts, pp. 2732-2735.

Weibel, Thomas (Fraunhofer ITWM), Rösch, Ronald (Fraunhofer ITWM), Daul, Christian (Centre de Recherche en Automatique de Nancy / ENSEM), Wolf, Didier (Centre de Recherche en Automatique de Nancy)

17:30-17:50 WeDT1.3

Fast Global Non-Rigid Registration for Mosaic Creation, pp. 2736-2739.

Castanheira de Souza, Rafael Henrique (Tokyo Inst. of Tech.), Okutomi, Masatoshi (Tokyo Inst. of Tech.), Torii, Akihiko (Tokyo Inst. of Tech.)

17:50-18:10 WeDT1.4

An Intrinsic Coordinate System for 3D Face Registration, pp. 2740-2743.

Koppen, Paul (Univ. of Surrey), Chan, Chi Ho (Univ. of Surrey), Christmas, William (Univ. of Surrey), Kittler, Josef (Univ. of Surrey)

18:10-18:30 WeDT1.5

Image Inpainting Considering Symmetric Patterns, pp. 2744-2747.

Kawai, Norihiko (Nara Inst. of Science and Tech.), Yokoya, Naokazu (Nara Inst. of Science and Tech.)

WeDT2 Multi-Purpose Hall

Texture and Saliency (Regular Session)

Chair: Ding, Xiaoqing Tsinghua Univ.

Co-Chair: Zhang, Hong Univ. of Alberta

16:50-17:10 WeDT2.1

Saliency Detection Via Divergence Analysis: A Unified Perspective, pp. 2748-2751.

Huang, Jia-Bin (Univ. of Illinois, Urbana-Champaign), Ahuja, Narendra (-UIUC)

17:10-17:30 WeDT2.2

Visual Saliency and Categorisation of Abstract Images, pp. 2752-2755.

Laine-Hernandez, Mari (Aalto Univ.), Kinnunen, Juha Teemu Ensio (Aalto Univ.), Kamarainen, Joni-Kristian (Lappeenranta Univ. of Tech.), Lensu, Lasse (Lappeenranta Univ. of Tech.), Kalviainen, Heikki (Lappeenranta Univ. of Tech.), Oittinen, Pirkko (Aalto Univ.)

17:30-17:50 WeDT2.3

Combining Local and Global Correlation for Texture Description, pp. 2756-2759.

Hong, Xiaopeng (Univ. of Oulu), Zhao, Guoying (Univ. of Oulu),

Pietikäinen, Matti (Univ. of Oulu), Chen, Xilin (Inst. of Computing Tech. Chinese Academy of Sciences)	
17:50-18:10	WeDT2.4
<i>A Comprehensive Benchmark of Local Binary Pattern Algorithms for Texture Retrieval</i> , pp. 2760-2763. Doshi, Niraj P. (Loughborough Univ.), Schaefer, Gerald (Loughborough Univ.)	
18:10-18:30	WeDT2.5
<i>Distinctive Texture Features from Perspective-Invariant Keypoints</i> , pp. 2764-2767. Gossow, David (Tech. Univ. München), Weikersdorfer, David (Tech. Univ. München), Beetz, Michael (Tech. Univ. München)	
WeDT3	Room 101+102
Feature Description (Regular Session)	
Chair: El-Saban, Motaz	Microsoft Res.
Co-Chair: Crandall, David	Indiana Univ.
16:50-17:10	WeDT3.1
<i>A Fully Affine Invariant Feature Detector</i> , pp. 2768-2771. Li, Wei (Chinese Acad. of Sciences), Shi, Zelin (Chinese Acad. of Sciences), Yin, Jian (The Res. Inst. on General Development of Air Force)	
17:10-17:30	WeDT3.2
<i>Contour Detection Via Random Forest</i> , pp. 2772-2775. ZHANG, Chao (Shanghai Jiao Tong Univ.), Ruan, Xiang (Omron cooperation), Zhao, Yuming (Shanghai Jiao Tong Univ.), Yang, Ming-Hsuan (Univ. of California at Merced)	
17:30-17:50	WeDT3.3
<i>EDVD - Enhanced Descriptor for Visual and Depth Data</i> , pp. 2776-2779. Nascimento, Erickson (Univ. Federal de Minas Gerais), Schwartz, William (Federal Univ. of Minas Gerais), Campos, Mario Montenegro Campos (Univ. Federal de Minas Gerais)	
17:50-18:10	WeDT3.4
<i>An Accurate and Contrast Invariant Junction Detector</i> , pp. 2780-2783. Xia, Gui-Song (Univ. Paris-Dauphine), Delon, Julie (CNRS, Telecom ParisTech), Gousseau, Yann (Telecom Paris)	
18:10-18:30	WeDT3.5
<i>Do Humans Fixate on Interest Points?</i> , pp. 2784-2787. Ghanem, Bernard (King Abdullah Univ. of Science and Tech.), Dubey, Rachit (Nanyang Tech. Univ.), Dave, Akshat (Nanyang Tech. Univ.)	
WeDT4	Hall 200
Video Analysis and Surveillance (Regular Session)	
Chair: Shimosaka, Masamichi	The Univ. of Tokyo
Co-Chair: Chen, Hua-Tsung	National Chiao Tung Univ.
16:50-17:10	WeDT4.1
<i>Acceleration of Vanishing Point-Based Line Sampling Scheme for People Localization and Height Estimation Via 3D Sampling</i> , pp. 2788-2791. Lo, Kuo-Hua (National Chiao Tung Univ.), Wang, Chih-Jung (National Chiao Tung Univ.), Chuang, Jen-Hui (National Chiao Tung Univ.), Chen, Hua-Tsung (National Chiao Tung Univ.)	
17:10-17:30	WeDT4.2
<i>Consistent Collective Activity Recognition with Fully Connected CRFs</i> , pp. 2792-2795. Kaneko, Takuhiro (The Univ. of Tokyo), Shimosaka, Masamichi (The Univ. of Tokyo), Odashima, Shigeyuki (The Univ. of Tokyo), Fukui, Rui (The Univ. of Tokyo), Sato, Tomomasa (The	

Univ. of Tokyo)	
17:30-17:50	WeDT4.3
<i>Automatic Heterogeneous Video Summarization in Temporal Profile</i> , pp. 2796-2800. Cai, Hongyuan (Indiana Univ. Purdue Univ. Indianapolis), Zheng, Jiang Yu (Indiana Univ. Purdue Univ. Indianapolis)	
17:50-18:10	WeDT4.4
<i>Annotating Videos from the Web Images</i> , pp. 2801-2804. Wang, Han (Beijing Lab. of Intelligent Information Technology, School of), Wu, Xinxiao (Beijing Lab. of Intelligent Information Technology, School of), Jia, Yunde (Beijing Inst. of Tech.)	
18:10-18:30	WeDT4.5
<i>Foreground Detection Via Robust Low Rank Matrix Factorization Including Spatial Constraint with Iterative Reweighted Regression</i> , pp. 2805-2808. Guyon, Charles (Lab. MIA (Mathematics, Image and Applications)-Univ. of), Bouwmans, Thierry (Lab. of Mathematics, Images and Applications, Univ. of), Zahzah, Elhadi (Lab. MIA (Mathematics, Image and Applications)-Univ. of)	
WeDT5	Hall 300
Categorization and Learning (Regular Session)	
Chair: Kambhamettu, Chandra	Univ. of Delaware
Co-Chair: Sukthankar, Rahul	Google
16:50-17:10	WeDT5.1
<i>A Pyramid Nearest Neighbor Search Kernel for Object Categorization</i> , pp. 2809-2812. Cheng, Hong (Univ. of Electronic Science and Tech. of China), Yu, Rongchao (Univ. of Electronics Science and Tech. of China), Liu, Zicheng (Microsoft), Liu, Yiguang (Sichuan Univ.)	
17:10-17:30	WeDT5.2
<i>Spatial Graphlet Matching Kernel for Recognizing Aerial Image Categories</i> , pp. 2813-2816. Zhang, Luming (Zhejiang Univ.), Song, Mingli (Zhejiang Univ.), Li, Sun (Zhejiang Univ.), Tao, Dacheng (Nanyang Tech. Univ.), Bu, Jiajun (Zhejiang Univ.), Chen, Chun (Zhejiang Univ.), Liu, Xiao (Zhejiang Univ.), Wang, Yinting (Zhejiang Univ.)	
17:30-17:50	WeDT5.3
<i>Sparse Coding for Histograms of Local Binary Patterns Applied for Image Categorization: Toward a Bag-Of-Scenes Analysis</i> , pp. 2817-2820. PARIS, Sebastien (Univ. de la Méditerranée), HALKIAS, Xanadu, Xanadu (Univ. South-Toulon-Var, LSIS/DYNI), Herve, GLOTIN (LSIS)	
17:50-18:10	WeDT5.4
<i>Online Human-Assisted Learning Using Random Ferns</i> , pp. 2821-2824. Villamizar Vergel, Michael (CSIC-UPC), Garrell, Anaïs (CSIC-UPC), Sanfeliu, Alberto (-Univ. Pol. de Catalunya), Moreno-Noguer, Francesc (CSIC-UPC)	
18:10-18:30	WeDT5.5
<i>K-MLE for Mixtures of Generalized Gaussians</i> , pp. 2825-2828. Schwander, Olivier (École Pol.), NIELSEN, Frank (Sony Computer Science Lab. Inc), Schutz, Aurélien (Univ. de Bordeaux), Berthoumieu, Yannick (Univ. de Bordeaux)	

Thursday, November 15

ThPSAT1	Main Hall
Poster Shotgun (11): PR (Regular Session)	
08:30-09:00	ThPSAT1.1
<i>Object Clique Representation for Scenes Classification</i> , pp. 2829-2832. Chen, Jingjing (Tianjin Univ.), Cao, Xiaochun (Tianjin Univ.), Zhang, Bao (Tianjin Univ.)	
08:30-09:00	ThPSAT1.2
<i>Towards Breast Ultrasound Image Segmentation Using Multi-Resolution Pixel Descriptors</i> , pp. 2833-2836. Rodrigues, Rafael (U.B.I. - Univ. da Beira Interior), Pinheiro, Antonio (U.B.I. - Univ. da Beira Interior), Braz, Rui (U.B.I. - Univ. da Beira Interior), Pereira, Manuela (U.B.I. - Univ. da Beira Interior), Moutinho, Jose (U.B.I. - Univ. da Beira Interior)	
08:30-09:00	ThPSAT1.3
<i>Hand-Dorsa Vein Recognition Based on Multi-Level Keypoint Detection and Local Feature Matching</i> , pp. 2837-2840. Tang, Yinhang (Beihang Univ.), Huang, Di (Beihang Univ.), Wang, Yunhong (Beihang Univ.)	
08:30-09:00	ThPSAT1.4
<i>Jensen Divergence Based SPD Matrix Means and Applications</i> , pp. 2841-2844. NIELSEN, Frank (Sony Computer Science Lab. Inc), Liu, Meizhu (Siemens Corp. Res.), Ye, Xiaojing (Georgia Tech.), Vemuri, Baba (Univ. of Florida)	
08:30-09:00	ThPSAT1.5
<i>Keyword Clustering for Automatic Categorization</i> , pp. 2845-2848. Zhao, Qinpei (School of Computing, Univ. of Eastern Finland), Rezaei, Mohammad (School of Computing, Univ. of Eastern Finland), Chen, hao (School of Computing, Univ. of Eastern Finland), Fránti, Pasi (Univ. of Eastern Finland)	
08:30-09:00	ThPSAT1.6
<i>Hybrid Content Based Image Retrieval Combining Multi-Objective Interactive Genetic Algorithm and SVM</i> , pp. 2849-2852. Pighetti, Romaric (Lab. I3S, UMR UNS-CNRS 7271), Pallez, Denis (Lab. I3S, UMR UNS-CNRS 7271), Precioso, Frederic (Lab. I3S, UMR UNS-CNRS, 7271)	
08:30-09:00	ThPSAT1.7
<i>Statistical Modeling and Signal Selection in Multivariate Time Series Pattern Classification</i> , pp. 2853-2856. Liu, Ruoqian (Univ. of Michigan - Dearborn), Xu, Shen (Univ. of Michigan - Dearborn), Fang, Chen (Univ. of Michigan - Dearborn), Liu, Yung-wen (Univ. of Michigan - Dearborn), Kochhar, Dev (Ford Motor Company), Murphey, Yi (Univ. of Michigan-Dearborn)	
08:30-09:00	ThPSAT1.8
<i>Multimodal Biometric Authentication Based on Iris Pattern and Pupil Light Reflex</i> , pp. 2857-2860. Yano, Vitor (Unicamp), Zimmer, Alessandro (UFPR), Ling, Lee Luan (Unicamp)	
08:30-09:00	ThPSAT1.9
<i>A Study on Semi-Supervised Dissimilarity Representation</i> , pp. 2861-2864. DINH, Viet Cuong (Delft Univ. of Tech.), Duin, Robert (TU Delft), Loog, Marco (Delft Univ. of Tech. / Univ. of Copenhagen)	
08:30-09:00	ThPSAT1.10
<i>Multi-Class Ada-Boost Classification of Object Poses</i>	

<i>through Visual and Infrared Image Information Fusion</i> , pp. 2865-2868. Changrampadi, Mohamed (Chalmers Univ. of Tech.), Yun, Yixiao (Chalmers Univ. of Tech.), Gu, Irene Yu-Hua (Chalmers Univ. of Tech.)	
08:30-09:00	ThPSAT1.11
<i>Cluster-Classification Bayesian Networks for Head Pose Estimation</i> , pp. 2869-2872. Kafai, Mehran (Univ. of California, Riverside), Bhanu, Bir (Univ. of California), An, Le (Univ. of California, Riverside)	
08:30-09:00	ThPSAT1.12
<i>Improving Cross-Validation Based Classifier Selection Using Meta-Learning</i> , pp. 2873-2876. Krijthe, Jesse Hendrik (Delft Univ. of Tech.), Ho, Tin Kam (Bell Lab. Alcatel-Lucent), Loog, Marco (Delft Univ. of Tech. / Univ. of Copenhagen)	
08:30-09:00	ThPSAT1.13
<i>Jensen-Shannon Graph Kernel Using Information Functionals</i> , pp. 2877-2880. Bai, Lu (the Univ. of York), Hancock, Edwin (Univ. of York), Ren, Peng (China Univ. of Petroleum (Hudong))	
08:30-09:00	ThPSAT1.14
<i>Graph Clustering Using Graph Entropy Complexity Traces</i> , pp. 2881-2884. Bai, Lu (the Univ. of York), Hancock, Edwin (Univ. of York), Ren, Peng (China Univ. of Petroleum (Hudong)), HAN, LIN (THE Univ. OF YORK)	
08:30-09:00	ThPSAT1.15
<i>Face Recognition in Multi-Camera Surveillance Videos</i> , pp. 2885-2888. An, Le (Univ. of California, Riverside), Bhanu, Bir (Univ. of California), Yang, Songfan (Univ. of California, Riverside)	
08:30-09:00	ThPSAT1.16
<i>Digital Privacy: Replacing Pedestrians from Google Street View Images</i> , pp. 2889-2893. Nodari, Angelo (Univ. degli studi dell'Insubria), Vanetti, Marco (Univ. degli Studi dell'Insubria), Gallo, Ignazio (Univ. degli Studi dell'Insubria)	
08:30-09:00	ThPSAT1.17
<i>Thresholding-Based Segmentation Revisited Using Mixtures of Generalized Gaussian Distributions</i> , pp. 2894-2897. Boulmerka, Aissa (École Nationale Supérieure d'informatique), allili, mohand said (Univ. du Québec en Outaouais)	
08:30-09:00	ThPSAT1.18
<i>Face Analysis of Aggressive Moods in Automobile Driving Using Mutual Subspace Method</i> , pp. 2898-2901. Moriyama, Tsuyoshi (Tokyo Pol. Univ.), Khat, Abdelaziz (Nissan Motor Co., Ltd.), Shimomura, Noriko (Nissan Motor co., ltd.)	
08:30-09:00	ThPSAT1.20
<i>Top-K Correlated Subgraph Query for Data Streams</i> , pp. 2906-2909. Pan, Shirui (Univ. of Tech. Sydney), Zhu, Xingquan (Florida Atlantic Univ.), Fang, Meng (Univ. of Tech. Sydney)	
08:30-09:00	ThPSAT1.21
<i>Timed and Probabilistic Automata for Automatic Animal Call Recognition</i> , pp. 2910-2913. DUAN, SHUFEI (QUEENSLAND Univ. OF Tech.), ZHANG, JINGLAN (QUEENSLAND Univ. OF Tech.), ROE, PAUL (QUEENSLAND Univ. OF Tech.), Towsey, Michael (QUEENSLAND Univ. OF Tech.), Buckingham, Lawrence (QUEENSLAND Univ. OF Tech.)	
08:30-09:00	ThPSAT1.22

Automatic Fuzzy Clustering Based on Mistake Analysis, pp. 2914-2917.

Ben, Shenglan (Nanjing University of Science and Tech.), Jin, Zhong (Nanjing Univ. of Science and Tech.), Yang, Jingyu (Nanjing Univ. of Science and Tech.)

08:30-09:00 ThPSAT1.23

Utilizing Co-Occurrence Patterns for Semantic Concept Detection in Images, pp. 2918-2921.

Feng, Linan (Univ. of California Riverside), Bhanu, Bir (Univ. of California)

08:30-09:00 ThPSAT1.24

Hypergraph Matching Based on Marginalized Constrained Compatibility, pp. 2922-2925.

Su, Jiang (Univ. of electronic science and Tech. of China), Le, Dong (Univ. of electronic science and Tech. of China), Ren, Peng (China Univ. of Petroleum (Huadong)), Hancock, Edwin (Univ. of York)

08:30-09:00 ThPSAT1.25

Bias Analyses of Spontaneous Facial Expression Database, pp. 2926-2929.

wang, zhaoyu (Univ. of Science and Tech. of China, Hefei, Anhui, P.R.C), Wang, Shangfei (Univ. of Science and Tech. of China), Zhu, Yachen (Univ. of Science and Tech. of China), Ji, Qiang (RPI)

08:30-09:00 ThPSAT1.26

Multiple HOG Templates for Gait Recognition, pp. 2930-2933.

Liu, Yushu (Fudan Univ.), Zhang, Junping (Fudan Univ.), Wang, Chen (Fudan Univ.), Wang, Liang (Inst. of Automation, Chinese Acad. of Sciences)

08:30-09:00 ThPSAT1.27

Distance Matrices As Invariant Features for Classifying MoCap Data, pp. 2934-2937.

Vieira, Antonio Wilson (Univ. Federal de Minas Gerais), Lewiner, Thomas (PUC-Rio), Schwartz, William (Federal Univ. of Minas Gerais), Campos, Mario Montenegro Campos (Univ. Federal de Minas Gerais)

08:30-09:00 ThPSAT1.30

Predicting Battery Life from Usage Trajectory Patterns, pp. 2946-2949.

Takahashi, Toshihiro (IBM), Ide, Tsuyoshi (IBM)

08:30-09:00 ThPSAT1.32

Multi-Task Co-Clustering Via Nonnegative Matrix Factorization, pp. 2954-2958.

Xie, Saining (Shanghai Jiao Tong Univ.), Lu, Hongtao (Shanghai Jiao Tong Univ.), He, Yangcheng (Shanghai Jiao Tong Univ.)

08:30-09:00 ThPSAT1.33

Designing Various Component Analysis at Will, pp. 2959-2962.

Kimura, Akisato (NTT Corp.), Sugiyama, Masashi (Tokyo Inst. of Tech.), Sakano, Hitoshi (NTT), Kameoka, Hirokazu (NTT Corp.)

08:30-09:00 ThPSAT1.34

Hierarchical Multilevel Object Recognition Using Markov Model, pp. 2963-2966.

Attamimi, Muhammad (The Univ. of Electro-Communications), Nakamura, Tomoaki (The Univ. of Electro-Communications), Nagai, Takayuki (The Univ. of Electro-Communications)

08:30-09:00 ThPSAT1.35

A Linear Max K-Min Classifier, pp. 2967-2971.

Dong, Mingzhi (Beijing Univ. of Posts and Telecommunications), Yin, Liang (Beijing Univ. of Posts and Telecommunications), deng, weihong (Beijing Univ. of Posts

and Telecommunications), Wang, Qiang (Beijing Univ. of Posts and Telecommunications), Yuan, Caixia (Beijing Univ. of Posts and Telecommunications(BUPT), P.R.Ch), Guo, Jun (Beijing Univ. of Posts and Telecommunications), Shang, Li (Intel China Res. Center), Ma, Liwei (Intel China Res. Center)

08:30-09:00 ThPSAT1.36

A Dual-Staged Classification-Selection Approach for Automated Update of Biometric Templates, pp. 2972-2975.

Rattani, Ajita (Univ. of Cagliari), Marcialis, Gian Luca (Univ. of Cagliari), Granger, Eric (École de Tech. supérieure), Roli, Fabio (Univ. of Cagliari)

08:30-09:00 ThPSAT1.37

The Bayesian Logistic Regression in Pattern Recognition Problems under Concept Drift, pp. 2976-2979.

Turkov, Pavel (Tula State Univ.), Krasotkina, Olga (Tula State Univ.), Mottl, Vadim (Computing Center of the Russian Acad. of Sciences)

08:30-09:00 ThPSAT1.38

Adaptive Selection of Ensembles for Imbalanced Class Distributions, pp. 2980-2984.

Radtke, Paulo Vinicius Wolski (École de Tech. supérieure), Granger, Eric (École de Tech. supérieure), Sabourin, R. (École de Tech. supérieure), Gorodnichy, Dmitry (Canada Border Services Agency)

08:30-09:00 ThPSAT1.39

Applying Scattering Operators for Face Recognition: A Comparative Study, pp. 2985-2988.

Chang, Kuang-Yu (Acad. Sinica), Lin, Cheng-Fu (Res. center for Information Tech. Innovation, Acad.), Chen, Chu-Song (Acad. Sinica), Hung, Yi-Ping (National Taiwan Univ.)

08:30-09:00 ThPSAT1.40

Single-Frame Hand Gesture Recognition Using Color and Depth Kernel Descriptors, pp. 2989-2992.

ZHU, Xiaolong (The Univ. of Hong Kong), Wong, Kwan-Yee Kenneth (The Univ. of Hong Kong)

08:30-09:00 ThPSAT1.41

An Efficient Method for Occluded Face Recognition, pp. 2993-2996.

Liu, Wentao (Tsinghua Univ.), Xie, Xudong (Tsinghua Univ.), Lam, Kin-Man (The Hong Kong Pol. Univ.)

08:30-09:00 ThPSAT1.42

Collaborative PLSA for Multi-View Clustering, pp. 2997-3000.

Jiang, Yu (Inst. of Automation, Chinese Acad. of Science), liu, jing (National Lab. of Pattern Recognition, Inst.), Li, Zechao (Inst. of Automation, Chinese Acad. of Science), Lu, Hanqing (Inst. of Automation, Chinese Acad. of Science)

08:30-09:00 ThPSAT1.43

A Cross-Device Matching Fingerprint Database from Multi-Type Sensors, pp. 3001-3004.

Jia, Xiaofei (Insitute of Automation, Chinese Acad. of Sciences), Yang, Xin (Insitute of Automation, Chinese Acad. of Sciences), Zang, Yali (Inst. of Automation, Chinese Acad. of Sciences), Zhang, Ning (Insitute of Automation, Chinese Acad. of Sciences), Tian, Jie (Insitute of Automation, Chinese Acad. of Sciences)

08:30-09:00 ThPSAT1.44

Object Categorization Via Sparse Representation of Local Features, pp. 3005-3008.

Wang, Jin (Deakin Univ. Australia), sun, xiangping (Deakin Univ.), Chen, Ronghua (Deakin Univ.), She, Mary Fenghua (Deakin Univ.), Wang, Qiang (CSR Zhuzhou Inst. CO.,LTD, China)

08:30-09:00 ThPSAT1.45

Hash-Based Structural Similarity for Semi-Supervised Learning on Attribute Graphs, pp. 3009-3012.

Hido, Shohei (Preferred Infrastructure), Kashima, Hisashi (The Univ. of Tokyo)		Shirai, Keiichiro (Shinshu Univ.), Okuda, Masahiro (The Univ. of Kitakyushu), ikehara, masaaki (Keio Univ.)	
08:30-09:00	ThPSAT1.46	08:30-09:00	ThPSAT2.10
<i>Commensurate Dimensionality Reduction for Extended Local Ternary Patterns</i> , pp. 3013-3016. Liao, Wen-Hung (National Chengchi Univ.)		<i>Blind Image Deblurring Based on Sparse Prior of Dictionary Pair</i> , pp. 3054-3057. Li, Haisen (Northwestern Pol. Univ.), Zhang, Yanning (Northwestern Pol. Univ.), Zhang, Haichao (Northwestern Pol. Univ.), Zhu, Yu (Northwestern Pol. Univ.), Sun, Jinjiu (Northwestern Pol. Univ.)	
ThPSAT2 Multi-Purpose Hall		ThPSAT2.11	
Poster Shotgun (12): SS (Regular Session)		<i>Patch-Based Image Colorization</i> , pp. 3058-3061. Bugeau, Aurélie (Univ. Bordeaux, Lab.), Ta, Vinh-Thong (Univ. Bordeaux)	
08:30-09:00	ThPSAT2.1	08:30-09:00	ThPSAT2.12
<i>Anomalous Tie Plate Detection for Railroad Inspection</i> , pp. 3017-3020. Li, Ying (IBM T. J. Watson Res. Center)		<i>Collaborative and Compressive High-Resolution Imaging</i> , pp. 3062-3065. Zhang, Yanning (Northwestern Pol. Univ.), Zhang, Haichao (Northwestern Pol. Univ.), Huang, Thomas (Univ. of Illinois at Urbana-Champaign)	
08:30-09:00	ThPSAT2.2	08:30-09:00	ThPSAT2.13
<i>Query by Humming Via Hierarchical Filters</i> , pp. 3021-3024. Guo, Zhiyuan (Beijing Univ. of Posts and Telecommunications), Wang, Qiang (Beijing Univ. of Posts and Telecommunications), Yin, Liang (Beijing Univ. of Posts and Telecommunications), Liu, Gang (Beijing Univ. of Posts and Telecommunications), Guo, Jun (Beijing Univ. of Posts and Telecommunications)		<i>Hamiltonian Monte Carlo Estimator for Abrupt Motion Tracking</i> , pp. 3066-3069. Wang, Fasheng (Dalian Maritime Univ.), Lu, Mingyu (Dalian Maritime Univ.)	
08:30-09:00	ThPSAT2.3	08:30-09:00	ThPSAT2.14
<i>Smoothness-Constrained Face Photo-Sketch Synthesis Using Sparse Representation</i> , pp. 3025-3029. Chang, Liang (Beijing Normal Univ.), Deng, Xiaoming (Inst. of Automation, Chinese Acad. of Sciences), Zhou, Mingquan (Beijing Normal Univ.), Duan, Fuqing (Beijing Normal Univ.), Wu, Zhongke (Beijing Normal Univ.)		<i>Depth Image Enhancement for Kinect Using Region Growing and Bilateral Filter</i> , pp. 3070-3073. Chen, Li (Hunan Univ.), Hui, Lin (Hunan Univ.), Li, Shutao (Hunan Univ.)	
08:30-09:00	ThPSAT2.4	08:30-09:00	ThPSAT2.15
<i>Towards Making Thinning Algorithms Robust against Noise in Sketch Images</i> , pp. 3030-3033. Chatbri, Houssein (Univ. of Tsukuba), Kameyama, Keisuke (Univ. of Tsukuba)		<i>Multi-Modality Movie Scene Detection Using Kernel Canonical Correlation Analysis</i> , pp. 3074-3077. Gao, Guangyu (Beijing Univ. of Posts and Telecommunications), Ma, Huadong (Beijing Univ. of Posts and Telecommunications)	
08:30-09:00	ThPSAT2.5	08:30-09:00	ThPSAT2.16
<i>Tempo Variation Based Multilayer Filters for Query by Humming</i> , pp. 3034-3037. Wang, Qiang (Beijing Univ. of Posts and Telecommunications), Guo, Zhiyuan (Beijing Univ. of Posts and Telecommunications), Li, Baoxiang (Beijing Univ. of Posts and Telecommunications), Liu, Gang (Beijing Univ. of Posts and Telecommunications), Guo, Jun (Beijing Univ. of Posts and Telecommunications)		<i>Descriptor Correlation Analysis for Remote Sensing Image Multi-Scale Classification</i> , pp. 3078-3081. dos Santos, Jefersson Alex (Univ. of Campinas), Faria, Fábio Augusto (Univ. of Campinas), Torres, Ricardo (Inst. of Computing, Univ. of Campinas), Rocha, Anderson (Univ. of Campinas), Gosselin, Philippe Henri (CNRS), Philipp-Foliguet, Sylvie (ENSEA/UCP/CNRS), Falcao, Alexandre Xavier (State Univ. of Campinas)	
08:30-09:00	ThPSAT2.6	08:30-09:00	ThPSAT2.17
<i>Find Dominant Bins of a Histogram by Sparse Representation</i> , pp. 3038-3041. Guo, Xin (Beijing Univ. of Posts and Telecommunications), zhao, zhicheng (Beijing Univ. of Posts and Telecommunications), cai, anni (beijing Univ. of posts and telecommunications)		<i>Bayesian Image Enlargement for Mixed-Resolution Video</i> , pp. 3082-3085. Tian, Jing (Wuhan Univ. of Science and Tech.), Chen, Li (Wuhan Univ. of Science and Tech.)	
08:30-09:00	ThPSAT2.7	08:30-09:00	ThPSAT2.18
<i>Character Extraction in Web Image for Text Recognition</i> , pp. 3042-3045. Su, Bolan (National Univ. of Singapore), Lu, Shijian (-), Phan, Trung Quy (National Univ. of Singapore), Tan, Chew-Lim (National Univ. of Singapore)		<i>An Improved Surround Suppression Model Based on Orientation Contrast for Boundary Detection</i> , pp. 3086-3089. Zhang, Hui (Beijing Jiaotong Univ.), Xie, Bojun (Beijing JiaoTong Univ.), Yu, Jian (Beijing Jiaotong Univ.)	
08:30-09:00	ThPSAT2.8	08:30-09:00	ThPSAT2.19
<i>Comparison of Restoration Quality on Square and Hexagonal Grids Using Normalized Convolution</i> , pp. 3046-3049. Linnér, Elisabeth (Uppsala Univ.), Strand, Robin (Uppsala Univ.)		<i>Improving Texture Description in Remote Sensing Image Multi-Scale Classification Tasks by Using Visual Words</i> , pp. 3090-3093. dos Santos, Jefersson Alex (Univ. of Campinas), Penatti, Otávio (Univ. of Campinas), Torres, Ricardo (Inst. of Computing, Univ. of Campinas), Gosselin, Philippe Henri (CNRS), Philipp-Foliguet, Sylvie (ENSEA/UCP/CNRS), Falcao, Alexandre Xavier (State Univ. of Campinas)	
08:30-09:00	ThPSAT2.9	08:30-09:00	ThPSAT2.20
<i>Color-Line Vector Field and Local Color Component Decomposition for Smoothing and Denoising of Color Images</i> , pp. 3050-3053.			

A Splitting Algorithm for Directional Regularization and Sparsification, pp. 3094-3098.

Rakét, Lars Lau (Univ. of Copenhagen), Nielsen, Mads (Univ. of Copenhagen)

08:30-09:00 ThPSAT2.21

A New Algorithm for Labeling Connected-Components and Calculating the Euler Number, Connected-Component Number, and Hole Number, pp. 3099-3102.

He, Lifeng (Aichi Prefectural Univ.), Chao, Yuyan (Nagoya Sangyo Univ.), Suzuki, Kenji (The Univ. of Chicago)

08:30-09:00 ThPSAT2.22

Quality Metrics for Practical Face Recognition, pp. 3103-3107.

Abaza, Ayman (West Virginia High Tech. Consortium Foundation), Bourlai, Thirimachos (WVU), Harrison, Mary Ann (West Virginia High Tech. Consortium Foundation)

08:30-09:00 ThPSAT2.23

Video Storyboard Design Using Delaunay Graphs, pp. 3108-3111.

Chowdhury, Ananda (Jadavpur Univ.), Kuanar, Sanjay (Jadavpur Univ.), Panda, Rameswar (Jadavpur Univ.), Das, Moloy (Jadavpur Univ.)

08:30-09:00 ThPSAT2.24

Cluster-Based Vector-Attribute Filtering for CT and MRI Enhancement, pp. 3112-3115.

Kiwanuka, Fred Noah (Univ. of Groningen), Wilkinson, Michael H.F. (Univ. of Groningen)

08:30-09:00 ThPSAT2.25

Fast and Efficient Multichannel Image Completion Using Local Similarity, pp. 3116-3119.

shenoda, sameh (Univ. Teknologi Petronas), Faye, Ibrahima (Univ. Teknologi Petronas), Rohaya, Dayang (Univ. Teknologi Petronas)

08:30-09:00 ThPSAT2.26

Human Action Recognition by Bagging Data Dependent Representation, pp. 3120-3123.

Zhou, Wen (Inst. of automation, Chinese Acad. of sciences), Wang, Chunheng (Inst. of Automation Chinese Acad. of Sciences), Xiao, Baihua (Inst. of Automation, Chinese Acad. of Sciences), zhang, zhong (Inst. of Automation, Chinese Acad. of Sciences), Ma, Long (Inst. of Automation, Chinese Acad. of Sciences, China)

08:30-09:00 ThPSAT2.27

A Fast Wavelet-Packet-Based Algorithm for Texture Synthesis, pp. 3124-3127.

Hsin, Hsi-Chin (National United Univ.), Sung, Tze-Yun (Chung Hua Univ.), Ko, Lu-Ting (National Central Univ.)

08:30-09:00 ThPSAT2.28

Fast Image Super Resolution Via Local Regression, pp. 3128-3131.

Gu, Shuhang (Huazhong Univ. of Science&Tech. Wuhan , PR China), Sang, Nong (Huazhong Univ. of Science and Tech.), Ma, Fan (Huazhong Univ. of Science&Tech. Wuhan , PR China)

08:30-09:00 ThPSAT2.29

Moving Objects Segmentation from Compressed Surveillance Video Based on Motion Estimation, pp. 3132-3135.

Xie, Danfeng (Chinese Acad. of Sciences R&D Center for Internet of Things), Wang, Shizheng (Chinese Acad. of Sciences)

08:30-09:00 ThPSAT2.30

A Puppet Interface for the Development of an Intuitive Computer Animation System, pp. 3136-3139.

Narukawa, Hiroki (The Univ. of Tokyo), Pantuwong, Natapon (The Univ. of Tokyo), Sugimoto, Masanori (The Univ. of Tokyo)

08:30-09:00 ThPSAT2.31

Activity Detection in the Wild Using Video Metadata, pp. 3140-3143.

McCloskey, Scott (McGill Univ. Honeywell), Davalos, Pedro (Honeywell)

08:30-09:00 ThPSAT2.32

Accurate Genomic Signal Recovery Using Compressed Sensing, pp. 3144-3147.

Uddin, Bakhtiyar (Univ. of Texas), Celebi, Emre M. (Louisiana State Univ.), Kingravi, Hassan (Georgia Inst. of Tech.), Schaefer, Gerald (Loughborough Univ.)

08:30-09:00 ThPSAT2.33

Improvements of Dynamic Texture Synthesis for Video Coding, pp. 3148-3151.

Hou, Zhiqiang (Wuhan Univ.), Hu, Ruimin (National Engineering Res. Center for MultimediaSoftware, Wuh), Wang, Zhongyuan (National Engineering Res. Center for MultimediaSoftware, Wuh), Han, Zhen (Wuhan Univ.)

08:30-09:00 ThPSAT2.34

Video Stabilization Based on High Degree B-Spline Smoothing, pp. 3152-3155.

Wang, Yue ((1) Inst. for Infocomm Res. Univ.), Chang, Richard (Inst. for Infocomm Res.), Chua, Teck Wee (Inst. for Infocomm Res.), Leman, Karianto (Inst. for Infocomm Res.), Pham, Nam Trung (Inst. for Infocomm Res.)

08:30-09:00 ThPSAT2.35

Battle-Lemarie Wavelet Pyramid for Improved GSM Image Denoising, pp. 3156-3159.

Mudugamuwa, Damith J. (UTS), He, Xiangjian (Univ. of Tech. Sydney), Jia, Wenjing (Univ. of Tech. Sydney)

08:30-09:00 ThPSAT2.36

Fast Computation of Orthogonal Polar Harmonic Transforms, pp. 3160-3163.

Hoang, Thai V. (INRIA), Tabbone, Salvatore (Univ. Lorraine)

08:30-09:00 ThPSAT2.37

Made to Measure Top-Hats, pp. 3164-3167.

Meyer, Fernand (Mines-ParisTech)

08:30-09:00 ThPSAT2.38

Real-Time Disparity Estimation Using Line-Wise Hybrid Recursive Matching and Cross-Bilateral Median Up-Sampling, pp. 3168-3171.

Riechert, Christian (Fraunhofer Inst. for Telecommunications - HeinrichHertz Inst.), Zilly, Frederik Leonhard (Fraunhofer Heinrich Hertz Inst.), Müller, Marcus (Fraunhofer Inst. for Telecommunications - Heinrich Hertz Ins), Kauff, Peter (Fraunhofer Inst. for Telecommunications - Heinrich Hertz Ins)

08:30-09:00 ThPSAT2.39

Background Subtraction Via Early Recurrence in Dynamic Scenes, pp. 3172-3175.

Shi, Xun (York Univ.), Tsotsos, John (York Univ.)

08:30-09:00 ThPSAT2.40

Optic Disc Localization by Projection with Vessel Distribution and Appearance Characteristics, pp. 3176-3179.

zhang, dongbo (Xiangtan Univ.), Yi, Yao (Coll. of Information Engineering Xiantan Univ.), Shang, Xingyu (Xiangtan Univ.), Peng, Yinghui (xiangtan Univ.)

08:30-09:00 ThPSAT2.41

Compression of GPS Trajectories Using Optimized Approximation, pp. 3180-3183.

Chen, Minjie (Univ. of Eastern Finland), Xu, Mantao (Carestream Health Corp. Shanghai, China), Fränti, Pasi (Univ.

of Eastern Finland)	
08:30-09:00	ThPSAT2.42
<i>A Genetic Algorithm Based Approach for Combining Binary Image Operators</i> , pp. 3184-3187.	
Dornelles, Marta Magda (Univ. Estadual de Santa Cruz), Hirata, Nina S. T. (Univ. of São Paulo)	
08:30-09:00	ThPSAT2.43
<i>Fast JPEG Image Retrieval Using Optimised Huffman Tables</i> , pp. 3188-3191.	
Edmundson, David (Loughborough Univ.), Schaefer, Gerald (Loughborough Univ.)	
08:30-09:00	ThPSAT2.44
<i>Strategies for Multiple Feature Fusion with Hierarchical HMM: Application to Activity Recognition from Wearable Audiovisual Sensors</i> , pp. 3192-3195.	
PINQUIER, Julien (Univ. Paul Sabatier), Karaman, Svebor (Lab.), LETOUPIN, Laetitia (Lab.), GUYOT, Patrice (IRIT), Megret, Remi (Univ. of Bordeaux), Benois-Pineau, Jenny (Lab.), Gaëstel, Yann (INSERM U.897), Dartigues, Jean-Francois (INSERM U.897)	
08:30-09:00	ThPSAT2.45
<i>Local Color Editing Using Color Classification and Boundary inpainting</i> , pp. 3196-3199.	
Su, Zhuo (Sun Yat-sen Univ.), Yang, Xue (Sun Yat-sen Univ.), Luo, Xiaonan (Sun Yat-sen Univ.), Wang, Dong (South China Agricultural Univ. of Informatics)	

ThAT1	Main Hall
Invited Talk Session-IV (Regular Session)	
Chair: Kise, Koichi	Graduate School of Engineering, Osaka Prefecture Univ.
Co-Chair: Marinai, Simone	Univ. degli Studi di Firenze
09:00-09:40	ThAT1.1
<i>Three Approaches of Scene Text Recognition: An Informal Comparison on Difficult Images (Invited Talk)*.</i>	
Kim, Jin Hyung (KAIST)	
09:40-10:00	ThAT1.2
<i>A Learning Framework for Degraded Document Image Binarization Using Markov Random Field</i> , pp. 3200-3203.	
Su, Bolan (National Univ. of Singapore), Lu, Shijian (-), Tan, Chew-Lim (National Univ. of Singapore)	
10:00-10:20	ThAT1.3
<i>Learning Features for Predicting OCR Accuracy</i> , pp. 3204-3207.	
Ye, Peng (Univ. of Maryland, Coll. Park), Doermann, David (Univ. of Maryland)	
10:20-10:40	ThAT1.4
<i>String-Level Learning of Confidence Transformation for Chinese Handwritten Text Recognition</i> , pp. 3208-3211.	
Wang, Da-Han (Inst. of Automation, Chinese Acad. of Sciences), Liu, Cheng-Lin (Inst. of Automation, Chinese Acad. of Sciences)	

ThAT2	Multi-Purpose Hall
Segmentation and Classification (Regular Session)	
Chair: Crandall, David	Indiana Univ.
Co-Chair: Lee, Chan-Su	Yeungnam Univ.
09:00-09:20	ThAT2.1
<i>Discovering Relevant Spatial Filterbanks for VHR Image Classification</i> , pp. 3212-3215.	
Tuia, Devis (Lausanne EPFL), Volpi, Michele (Univ. of	

Lausanne, Inst. of geomatics and risk analysis), Dalla Mura, Mauro (Fondazione Bruno Kessler), rakotomamonjy, alain (Univ. de Rouen), Flamary, Rémi (Univ. de Rouen)	
09:40-10:00	ThAT2.3
<i>A Renewed Image Annotation Baseline by Image Embedding and Tag Correlation</i> , pp. 3216-3219.	
Liu, Rujie (Fujitsu Res. & Development Center), Wang, Yuehong (Fujitsu Res. and Development Center), Yu, Hao (Fujitsu Res. and Development Center), Naoi, Satoshi (Fujitsu R&D Center Co., LTD)	
10:00-10:20	ThAT2.4
<i>Structured Sparse Coding for Image Representation Based on L1-Graph</i> , pp. 3220-3223.	
Ou, Weihua (Huazhong Univ. of science and Tech.), You, Xinge (Huazhong Univ. of Science and Tech.), Cheung, Yiu-ming (Hong Kong Baptist Univ.), Peng, Qinmu (Hong Kong Baptist Univ.), Gong, Mingming (Huazhong Univ. of science and Tech.), Jiang, Xiubao (Huazhong Univ. of science and Tech.)	
10:20-10:40	ThAT2.5
<i>Stable Discriminative Dictionary Learning Via Discriminative Deviation</i> , pp. 3224-3227.	
Khan, Nazar (Univ. of Central Florida), Tappen, Marshall (Univ. of Central Florida)	

ThAT3	Room 101+102
Geometry and Calibration (Regular Session)	
Chair: Heikkilä, Janne	Univ. of Oulu
Co-Chair: Kanatani, Kenichi	Okayama Univ.
09:00-09:20	ThAT3.1
<i>Direct Least Square Fitting of Ellipsoids</i> , pp. 3228-3231.	
Ying, Xianghua (Peking Univ.), Yang, Li (Peking Univ.), Kong, Jing (Peking Univ.), Hou, Yongbo (Peking Univ.), Guan, Sheng (Peking Univ.), Zha, Hongbin (Peking Univ.)	
09:20-09:40	ThAT3.2
<i>Exploiting P-Fold Symmetries for Faster Polynomial Equation Solving</i> , pp. 3232-3235.	
Ask, Erik (Lund Univ.), Kuang, Yubin (Lund Univ.), Astroem, Kalle (Lund Univ.)	
09:40-10:00	ThAT3.3
<i>Homography Estimation from Correspondences of Local Elliptical Features</i> , pp. 3236-3239.	
Chum, Ondrej (Czech Tech. Univ. in Prague), Matas, Jiri (CTU Prague)	
10:00-10:20	ThAT3.4
<i>Camera Self Calibration Based on Direct Image Alignment</i> , pp. 3240-3243.	
Sugimoto, Shigeki (Tokyo Inst. of Tech.), Okutomi, Masatoshi (Tokyo Inst. of Tech.)	
10:20-10:40	ThAT3.5
<i>Fast and Efficient Vanishing Point Detection in Indoor Images</i> , pp. 3244-3247.	
Gerogiannis, Demetrios (Univ. of Ioannina), Nikou, Christophoros (Univ. of Ioannina), Likas, Aristidis (Univ. of Ioannina, Department of Computer Science)	

ThAT4	Hall 200
Object Detection (Regular Session)	
Chair: Mikolajczyk, Krystian	Univ. of Surrey
Co-Chair: Fisher, Robert	Univ. of Edinburgh
09:00-09:20	ThAT4.1
<i>Efficient Incremental Learning of Boosted Classifiers for</i>	

Object Detection, pp. 3248-3251.

Sharma, Pramod (Univ. of Southern California), Huang, Chang (NEC Lab.), Nevatia, Ram (USC)

09:20-09:40 ThAT4.2

Unsupervised Model Selection for View-Invariant Object Detection in Surveillance Environments, pp. 3252-3255.

Siddiquie, Behjat (SRI International), Feris, Rogerio (IBM Res.), Datta, Ankur (IBM T. J. Watson Res. Center), Davis, Larry (Univ. of Maryland)

09:40-10:00 ThAT4.3

Multi-View Multi-Class Object Detection Via Exemplar Compounding, pp. 3256-3259.

Ma, Kai (Univ. of Illinois at Chicago), Ben-Arie, Jezekiel (Univ. of Illinois at Chicago)

10:00-10:20 ThAT4.4

Mining Sub-Categories for Object Detection, pp. 3260-3263.

Dai, Jifeng (Tsinghua Univ.), Feng, Jianjiang (Tsinghua Univ.), Zhou, Jie (Tsinghua Univ.)

10:20-10:40 ThAT4.5

Semantic Windows Mining in Sliding Window Based Object Detection, pp. 3264-3267.

Zhang, Junge (CASIA), Zhao, Xin (Univ. of Science and Tech. of China), Huang, Yongzhen (Inst. of Automation, Chinese Acad. of Sciences), Kaiqi, Huang (CAS Inst. of Automation (CASIA)), Tan, Tieniu (casia)

ThAT5 Hall 300

Gait and Action Analysis (Regular Session)

Chair: Ji, Qiang RPI

Co-Chair: Nixon, Mark Univ. of Southampton

09:00-09:20 ThAT5.1

Action Recognition Via Sparse Representation of Characteristic Frames, pp. 3268-3271.

Lu, Guoliang (Graduate school of information scienceandtechnology,Hokkaido Uni), Kudo, Mineichi (Hokkaido Univ.), Toyama, Jun (Hokkaido Univ.)

09:20-09:40 ThAT5.2

On Including Quality in Applied Automatic Gait Recognition, pp. 3272-3275.

Matovski, Darko (Univ. of Southampton), Nixon, Mark (Univ. of Southampton), mansfield, tony (national physical Lab.), Mahmoodi, Sasan (Univ. of Southampton)

09:40-10:00 ThAT5.3

Can Gait Fluctuations Improve Gait Recognition?, pp. 3276-3279.

Makihara, Yasushi (The Inst.), Fujihara, Yusuke (Osaka Univ.), Yagi, Yasushi (Osaka Univ.)

10:00-10:20 ThAT5.4

Can Gait Biometrics Be Spoofed?, pp. 3280-3283.

Hadid, Abdenour (Univ. of OULU), Ghahramani, Mohammad (Univ. of Oulu), Kellokumpu, Vili (Univ. of Oulu), Pietikäinen, Matti (Univ. of Oulu), Bustard, John (Univ. of Southampton), Nixon, Mark (Univ. of Southampton)

10:20-10:40 ThAT5.5

Gait-Based Gender Classification in Unconstrained Environments, pp. 3284-3287.

Lu, Jiwen (UIUC), Wang, Gang (Nanyang Tech. Univ.), Huang, Thomas (Univ. of Illinois at Urbana-Champaign)

ThBT1 Main Hall

Scene Text (Regular Session)

Chair: Llados, Josep

Computer Vision Center

Co-Chair: Uchida, Seiichi

Kyushu Univ.

11:20-11:40 ThBT1.1

Convolutional Neural Networks Applied to House Numbers Digit Classification, pp. 3288-3291.

Sermanet, Pierre (New York Univ.), Chintala, Soumith (New York Univ.), LeCun, Yann (New York Univ.)

11:40-12:00 ThBT1.2

Sharpness Estimation for Document and Scene Images, pp. 3292-3295.

Kumar, Jayant (Univ. of Maryland Coll. Park), Chen, Francine (FX Palo Alto Lab.), Doermann, David (Univ. of Maryland)

12:00-12:20 ThBT1.3

Text Detection in Natural Scenes Using Gradient Vector Flow-Guided Symmetry, pp. 3296-3299.

Phan, Trung Quy (National Univ. of Singapore), Palaiahnakote, Shivakumara (National Univ. of Singapore), Tan, Chew-Lim (National Univ. of Singapore)

12:20-12:40 ThBT1.4

Wavelet-Gradient-Fusion for Video Text Binarization, pp. 3300-3303.

Roy, Sangheeta (Kolkata), Palaiahnakote, Shivakumara (National Univ. of Singapore), Roy, Partha Pratim (Univ. François Rabelais), Tan, Chew-Lim (National Univ. of Singapore)

12:40-13:00 ThBT1.5

End-To-End Text Recognition with Convolutional Neural Networks, pp. 3304-3308.

Wang, Tao (Stanford Univ.), Wu, David J. (Stanford Univ.), Coates, Adam (Stanford Univ.), Ng, Andrew (Stanford Univ.)

ThBT2 Multi-Purpose Hall

Segmentation (Regular Session)

Chair: Haindl, Michael Inst. of Information Theory and Automation

Co-Chair: Shapiro, Linda Univ. of Washington

11:20-11:40 ThBT2.1

Concurrent Segmentation of Categorized Objects from an Image Collection, pp. 3309-3312.

Wang, Le (Xi'an Jiaotong Univ.), Xue, Jianru (Xi'an Jiaotong Univ.), Zheng, Nanning (Xi'an Jiaotong Univ.), Hua, Gang (Stevens Inst. of Tech.)

11:40-12:00 ThBT2.2

Efficient Semantic Segmentation with Gaussian Processes and Histogram Intersection Kernels, pp. 3313-3316.

Freytag, Alexander (Friedrich Schiller Univ. Jena), Fröhlich, Björn (Friedrich Schiller Univ. Jena), Rodner, Erik (Friedrich-Schiller Univ. Jena), Denzler, Joachim (Friedrich-Schiller Univ. of Jena)

12:00-12:20 ThBT2.3

Learning Non-Target Items for Interesting Clothes Segmentation in Fashion Images, pp. 3317-3320.

Grana, Costantino (Univ. degli Studi di Modena e Reggio Emilia), Calderara, Simone (Univ. of Modena and Reggio Emilia), Borghesani, Daniele (Univ. degli Studi di Modena e Reggio Emilia), Cucchiara, Rita (Univ. degli Studi di Modena e Reggio Emilia)

12:20-12:40 ThBT2.4

Relaxed Cheeger Cut for Image Segmentation, pp. 3321-3324.

Paulhac, Ludovic (Univ. Bordeaux, Lab. UMR 5800, F-33400 Talence, France), Ta, Vinh-Thong (Univ. Bordeaux), Megret, Remi (Univ. of Bordeaux)

12:40-13:00 ThBT2.5

Segmentation and Scene Modeling for MIL-Based Target Localization, pp. 3325-3328.

Sankaranarayanan, Karthik (IBM Res.), Davis, James W. (Ohio State Univ.)

ThBT3 Room 101+102

Object Recognition (Regular Session)

Chair: Boyer, Kim Rensselaer Pol. Inst.
Co-Chair: Nevatia, Ram USC

11:20-11:40 ThBT3.1

Region of Interest Detection Using Indoor Structure and Saliency Map, pp. 3329-3332.

Kataoka, Kaori (NTT Cyber Space Lab.), Sudo, Kyoko (NTT Corp.), Morimoto, Masashi (NTT Corp.)

11:40-12:00 ThBT3.2

Trajectory-Based Fisher Kernel Representation for Action Recognition in Videos, pp. 3333-3336.

Ghanem, Bernard (King Abdullah Univ. of Science and Tech.), Atmosukarto, Indriyati (Advanced Digital Sciences Center), Ahuja, Narendra (-UIUC)

12:00-12:20 ThBT3.3

Learning to Describe Color Composition of Visual Objects, pp. 3337-3340.

Liu, Yuanliu (Xi'an Jiaotong Univ.), Liang, Yudong (Xi'an Jiaotong Univ.), Yuan, Zejian (Xi'an Jiaotong Univ.), Zheng, Nanning (Xi'an Jiaotong Univ.)

12:20-12:40 ThBT3.4

A Stable Graph-Based Representation for Object Recognition through High-Order Matching, pp. 3341-3344.

Albarelli, Andrea (Univ. Ca' Foscari di Venezia), Bergamasco, Filippo (Univ. Ca' Foscari di Venezia), Rossi, Luca (Univ. Ca' Foscari di Venezia), Vascon, Sebastiano (Univ. Ca' Foscari di Venezia), Torsello, Andrea (Univ. Ca' Foscari)

ThBT4 Hall 200

Biomedical Application (Regular Session)

Chair: Kita, Yasuyo National Inst. of Advanced Industrial Science and Technology
Co-Chair: Schaefer, Gerald Loughborough Univ.

11:20-11:40 ThBT4.1

Effective Multiple Classifier Systems for Breast Thermogram Analysis, pp. 3345-3348.

Bartosz, Krawczyk (Wroclaw Univ. of Tech.), Schaefer, Gerald (Loughborough Univ.)

11:40-12:00 ThBT4.2

Applying Textural Features to the Classification of HEp-2 Cell Patterns in IIF Images, pp. 3349-3352.

Di Cataldo, Santa (Pol. di Torino), Bottino, Andrea (Pol. di Torino), Ficarra, Elisa (Pol. di Torino, Italy), Macii, Enrico (Pol. di Torino)

12:00-12:20 ThBT4.3

Classification of Biological Cells Using Bio-Inspired Descriptors, pp. 3353-3357.

Bel haj ali, Wafa (I3S, CNRS/Univ. of Nice Sophia Antipolis), Piro, Paolo (Istituto Italiano di Tecnologia (IIT)), Giampaglia, Dario (I3S, CNRS/Univ. of Nice Sophia Antipolis), Pourcher, Thierry (CEA/Univ. of Nice Sophia Antipolis), Nock, Richard (Univ. des Antilles et de la Guyane), Barlaud, Michel (CNRS/Univ. of Nice-Sophia Antipolis)

12:20-12:40 ThBT4.4

Robust Regularized Feature Selection for Iris Recognition Via Linear Programming, pp. 3358-3361.

Wang, Libin (Inst. of Automation, Chinese Acad. of Science), Sun, Zhenan (Inst. of Automation, Chinese Acad. of Sciences.), Tan, Tieniu (casia)

12:40-13:00 ThBT4.5

HEp-2 Cell Classification in IIF Images Using ShareBoost, pp. 3362-3365.

Ersoy, Ilker (Univ. of Missouri Columbia), Bunyak, Filiz (Univ. of Missouri), Peng, Jing (Montclair State Univ.), Palaniappan, Kannappan (Univ. of Missouri)

ThBT5 Hall 300

Gesture and Action Analysis-I (Regular Session)

Chair: Sugimoto, Akihiro National Inst. of Informatics
Co-Chair: Wolf, Christian INSA de Lyon

11:20-11:40 ThBT5.1

Action Recognition with Discriminative Mid-Level Features, pp. 3366-3369.

LIU, Cuiwei (Beijing Inst. of Tech.), Kong, Yu (SUNY at Buffalo), Wu, Xinxiao (Beijing Lab. of Intelligent Information Technology, School of), Jia, Yunde (Beijing Inst. of Tech.)

11:40-12:00 ThBT5.2

Robust 3D Human Pose Estimation Via Dual Dictionaries Learning, pp. 3370-3373.

Ji, Hao (BUPT), Su, Fei (Beijing University of Posts and Telecommunications, Beijing, China)

12:00-12:20 ThBT5.3

Sparse Granger Causality Graphs for Human Action Classification, pp. 3374-3377.

Yi, Saehoon (Rutgers Univ.), Pavlovic, Vladimir (Rutgers Univ.)

12:20-12:40 ThBT5.4

Incorporating Contextual Knowledge to Dynamic Bayesian Networks for Event Recognition, pp. 3378-3381.

Wang, Xiaoyang (RPI), Ji, Qiang (RPI)

12:40-13:00 ThBT5.5

A Novel Probabilistic Approach Utilizing Clip Attribute As Hidden Knowledge for Event Recognition, pp. 3382-3385.

Wang, Xiaoyang (RPI), Ji, Qiang (RPI)

ThPSBT1 Main Hall

Poster Shotgun (13): PR (Regular Session)

14:00-14:30 ThPSBT1.1

Metric Learning for Graph Based Semi-Supervised Human Pose Estimation, pp. 3386-3389.

Nima, Pourdamghani (Sharif Univ. of Tech.), Rabiee, Hamid Reza (Sharif Univ. of Tech.), Zolfaghari, Mohammadreza (Sharif Univ. of Tech.)

14:00-14:30 ThPSBT1.2

Prediction of Drowsy Driving by Monitoring Driver's Behavior, pp. 3390-3393.

Matsuo, Haruo (Nissan Motor Co., Ltd.), Khat, Abdelaziz (Nissan Motor Co., Ltd.)

14:00-14:30 ThPSBT1.3

Accelerated Robust Sparse Coding for Fast Face Recognition, pp. 3394-3397.

Liu, Guanglu (Xiamen Univ.), Yan, Yan (Xiamen Univ.), Wang, Hanzi (Xiamen Univ.)

14:00-14:30 ThPSBT1.4

<i>Accurate Iris Localization Using Contour Segments</i> , pp. 3398-3401. Li, Haiqing (Chinese Acad. of Sciences), Sun, Zhenan (Inst. of Automation, Chinese Acad. of Sciences.), Tan, Tieniu (casia)	14:00-14:30	ThPSBT1.5
<i>A Multiple Kernel Learning Framework for Detecting Altered Fingerprints</i> , pp. 3402-3405. Tiribuzi, Michela (Univ. of Perugia), Pastorelli, Marco (Univ. of Perugia), Valigi, Paolo (Univ. of Perugia), Ricci, Elisa (Univ. of Perugia)	14:00-14:30	ThPSBT1.6
<i>Matching of Multi-Resolution Image for Remote Sensing Glacier Detection</i> , pp. 3406-3410. Guermazi, Ahmed (Univ. of Savoie), VALET, Lionel (Univ. of Savoie), BOLON, Philippe (Pol. / Univ. of Savoie)	14:00-14:30	ThPSBT1.7
<i>Exploring the Effects of Video Length on Gait Recognition</i> , pp. 3411-3414. Martín-Félez, Raúl (Univ. Jaume I (Castellón)), Ortells, Javier (Univ. Jaume I de Castelló), Mollineda, Ramón A. (Univ. Jaume I)	14:00-14:30	ThPSBT1.8
<i>Online Adaptive Learning for Multi-Camera People Counting</i> , pp. 3415-3418. Li, Jingwen (Chinese Acad. of Sciences), Huang, Lei (Inst. of Automation, Chinese Acad. of Sciences), Liu, Changping (Inst. of Automation, Chinese Acad. of Sciences)	14:00-14:30	ThPSBT1.9
<i>Recognition of Facial Expressions Using Locally Weighted and Adjusted Order Pseudo Zernike Moments</i> , pp. 3419-3422. Ahmady, Maryam (Islamic Azad Univ. Qazvin Branch), Rashidy Kanan, Hamidreza (Islamic Azad Univ. Qazvin Branch)	14:00-14:30	ThPSBT1.10
<i>Robust Object Recognition Via Third-Party Collaborative Representation</i> , pp. 3423-3426. Wu, Yang (Kyoto Univ.), Mino, Michihiko (Kyoto Univ.), mukunoki, masayuki (Kyoto Univ.), LAO, Shihong (OMRON Social Solutions Co., LTD)	14:00-14:30	ThPSBT1.11
<i>Iris Image Classification Based on Color Information</i> , pp. 3427-3430. Zhang, Hui (Shanghai Inst.), Sun, Zhenan (Inst. of Automation, Chinese Acad. of Sciences.), Tan, Tieniu (casia), Wang, Jianyu (SITP)	14:00-14:30	ThPSBT1.12
<i>Tablet Owner Authentication Based on Behavioral Characteristics of Multi-Touch Actions</i> , pp. 3431-3434. Nakamura, Kumi (Osaka Univ.), Kono, Kazuhiro (Kansai Univ.), Ito, Yoshimichi (Osaka Univ.), Babaguchi, Noboru (Osaka Univ.)	14:00-14:30	ThPSBT1.13
<i>A New Statistical Model for Activity Discovery and Recognition in Pervasive Environments</i> , pp. 3435-3438. Chikhaoui, Belkacem (Univ. of Sherbrooke), Wang, Shengrui (Univ. of Sherbrooke), Pigot, H�el�ene (Univ. of Sherbrooke)	14:00-14:30	ThPSBT1.14
<i>A Ranking-Based Cascade Approach for Unbalanced Data</i> , pp. 3439-3442. Bria, Alessandro (Univ. of Cassino and L. M.), Marrocco, Claudio (Univ. degli Studi di Cassino e del Lazio Meridionale), Molinaro, Mario (Univ. degli Studi di Cassino e del Lazio Meridionale), Tortorella, Francesco (Univ. degli Studi di Cassino e del Lazio Meridionale)	14:00-14:30	ThPSBT1.15
<i>Statistical Origin-Destination Generation with Multiple Sources</i> , pp. 3443-3446. Morimura, Tetsuro (IBM Res. - Tokyo), Kato, Sei (IBM Res. - Tokyo)	14:00-14:30	ThPSBT1.16
<i>Protein Structure Similarity Based on Multi-View Images Generated from 3D Molecular Visualization</i> , pp. 3447-3451. Suryanto, Chendra Hadi (Univ. of Tsukuba), Jiang, Shukun (Univ. of Tsukuba), Fukui, Kazuhiro (Univ. of Tsukuba)	14:00-14:30	ThPSBT1.17
<i>Learning to Detect Traffic Signs: Comparative Evaluation of Synthetic and Real-World Datasets</i> , pp. 3452-3455. M�ogelmoose, Andreas (Aalborg Univ.), Trivedi, Mohan (Univ. of California, San Diego), Moeslund, Thomas (Aalborg Univ.)	14:00-14:30	ThPSBT1.18
<i>Human Action Recognition Using Action Trait Code</i> , pp. 3456-3459. Shih-Yao, Lin (National Taiwan Univ.), Shie, Chuen Kai (National Taiwan Univ.), Chen, Shen-Chi (National Taiwan Univ.), LEE, MING-SUI (National Taiwan Univ.), Hung, Yi-Ping (National Taiwan Univ.)	14:00-14:30	ThPSBT1.19
<i>Combining Gradient Histograms Using Orientation Tensors for Human Action Recognition</i> , pp. 3460-3463. Almeida Perez, Eder (Univ. Federal de Juiz de Fora), Fernandes Mota, Virginia (Univ. Federal de Juiz de Fora), Maciel, Luiz Maurilio (Univ. Federal de Juiz de Fora), Sad, Diego (Univ. Federal de Juiz de Fora), Bernardes Vieira, Marcelo (Univ. Federal de Juiz de Fora)	14:00-14:30	ThPSBT1.20
<i>Discovering Regular and Consistent Behavioral Patterns in Topical Tweeting</i> , pp. 3464-3467. Dey, Lipika (Tata Consultancy Services), Gaonkar, Bhakti (Tata Consultancy Services)	14:00-14:30	ThPSBT1.21
<i>Learning to Predict Super Resolution Wavelet Coefficients</i> , pp. 3468-3471. Kumar, Neeraj (Indian Inst. of Tech. Guwahati), Rai, Naveen Kumar (Indian Inst. of Tech. Guwahati), Sethi, Amit (Indian Inst. of Tech. Guwahati)	14:00-14:30	ThPSBT1.22
<i>Breath Rate Monitoring During Sleep Using Near-IR Imagery and PCA</i> , pp. 3472-3475. Martinez, Manuel (Karlsruhe Inst. of Tech.), Stiefelwagen, Rainer (Karlsruhe Inst. of Tech. & Fraunhofer IOSB, Karlsruhe)	14:00-14:30	ThPSBT1.23
<i>Importance-Weighted Label Prediction for Active Learning with Noisy Annotations</i> , pp. 3476-3479. Zhao, Liyue (Univ. of Central Florida), Sukthankar, Gita (Univ. of Central Florida), Sukthankar, Rahul (Google)	14:00-14:30	ThPSBT1.24
<i>KL Based Data Fusion for Target Tracking</i> , pp. 3480-3483. Peng, Jing (Montclair State Univ.), Palaniappan, Kannappan (Univ. of Missouri), Candemir, Sema (Univ. of Missouri), Seetharaman, Guna (AFRL/RITB)	14:00-14:30	ThPSBT1.25
<i>Logo Spotting for Document Categorization</i> , pp. 3484-3487. LE, Viet Phuong (La Rochelle Univ.), Visani, Muriel (Univ. of La Rochelle), Tran, Cao De (Can Tho Univ.), Ogier, Jean-Marc (Univ. de la Rochelle)	14:00-14:30	ThPSBT1.26
<i>Flow Modeling and Skin-Based Gaussian Pruning to</i>		

<i>Recognize Gestural Actions Using HMM</i> , pp. 3488-3491. Ahmad, Omer Rashid (IESK, OvG Univ. Magdeburg Germany), Al-Hamadi, Ayoub (IESK, Otto-von-Guericke-Univ. Magdeburg)	
14:00-14:30	ThPSBT1.27
<i>Unsupervised Domain Adaptation of Virtual and Real Worlds for Pedestrian Detection</i> , pp. 3492-3495. Vázquez Bermúdez, David (CVC-UAB), López Peña, Antonio M. (CVC-UAB), Ponsa, Daniel (CVC-UAB)	
14:00-14:30	ThPSBT1.28
<i>Correcting Pose Estimation with Implicit Occlusion Detection and Rectification</i> , pp. 3496-3499. Radwan, Ibrahim (Univ. of Canberra), Dhall, Abhinav (Australian National Univ.), Goecke, Roland (Univ. of Canberra)	
14:00-14:30	ThPSBT1.29
<i>A Comparison Study on Appearance-Based Object Recognition</i> , pp. 3500-3503. HSU, GEE-SERN (National Taiwan Univ. of Science and Tech.), TRUONG, LOC (National Taiwan Univ. of Science and Tech.), Chung, Sheng-Lun (National Taiwan Univ. of Science and Tech.)	
14:00-14:30	ThPSBT1.30
<i>Label-Noise Reduction with Support Vector Machines</i> , pp. 3504-3508. Fefilyatov, Sergiy (Univ. of South Florida), Shreve, Matthew (Univ. of South Florida), Kramer, Kurt (Univ. of South Florida), Hall, Larry (Univ. of South Florida), Goldgof, Dmitry (Univ. of South Florida), Kasturi, Rangachar (Univ. of South Florida), Daly, Kendra (Univ. of South Florida), Remsen, Andrew (Coll. of Marine Science, Univ. of South Florida), Bunke, Horst (Univ. of Bern)	
14:00-14:30	ThPSBT1.31
<i>Subspace Segmentation with Minimal Squared Frobenius Norm Representation</i> , pp. 3509-3512. Wei, Siming (Zhejiang Univ.), Yu, Yizhou (The Univ. of Hong Kong)	
14:00-14:30	ThPSBT1.32
<i>Discriminative and Generative Vocabulary Tree for Vein Image Recognition</i> , pp. 3513-3516. Wang, Jinjun (Epson Res. and Development), Xiao, Jing (Epson Res. and Development)	
14:00-14:30	ThPSBT1.33
<i>Facial Expression Classification on Web Images</i> , pp. 3517-3520. Richter, Matthias (Karlsruhe Inst. of Tech.), Gehrig, Tobias (Karlsruhe Inst. of Tech. (KIT)), Ekenel, Hazim Kemal (Karlsruhe Inst. of Tech.)	
14:00-14:30	ThPSBT1.35
<i>Group Expression Intensity Estimation in Videos Via Gaussian Processes</i> , pp. 3525-3528. Dhall, Abhinav (Australian National Univ.), Goecke, Roland (Univ. of Canberra)	
14:00-14:30	ThPSBT1.36
<i>An Active Learning Approach to Frequent Itemset-Based Text Clustering</i> , pp. 3529-3532. Marcacini, Ricardo Marcondes (Univ. of São Paulo), Corrêa, Geraldo Nunes (Univ. of São Paulo - USP - São Carlos, SP, Brazil), Rezende Oliveira, Solange (Univ. of São Paulo)	
14:00-14:30	ThPSBT1.37
<i>Multi-View Facial Expression Recognition Using Local Appearance Features</i> , pp. 3533-3536. Hesse, Nikolas (CAOS GmbH), Gehrig, Tobias (Karlsruhe Inst. of Tech. (KIT)), Gao, Hua (Karlsruhe Inst. of Tech.), Ekenel, Hazim Kemal (Karlsruhe Inst. of Tech.)	

14:00-14:30	ThPSBT1.38
<i>Locating High-Density Clusters with Noisy Queries</i> , pp. 3537-3540. Cao, Chen (Shenzhen Inst. of Advanced Tech. Chinese Acad. of S), Chen, Shifeng (Shenzhen Inst. of Advanced Tech. Chinese Academy of Sci), Zou, Changqing (Shenzhen Inst. of Advanced Tech. Chinese Acad. of S), Liu, Jianzhuang (Shenzhen Inst. of Advanced Tech. Chinese Acad. of S)	
14:00-14:30	ThPSBT1.39
<i>Towards Automated Classification of Fine-Art Painting Style: A Comparative Study</i> , pp. 3541-3544. Arora, Ravneet (Rutgers Univ. Computer Science Department), Elgammal, Ahmed (Rutgers Univ.)	
14:00-14:30	ThPSBT1.40
<i>Mining Residential Household Information from Low-Resolution Smart Meter Data</i> , pp. 3545-3548. Fusco, Francesco (IBM), Yoon, Ji Won (IBM Res.), Wurst, Michael (IBM Res.)	
14:00-14:30	ThPSBT1.41
<i>Predicting Onsets of Genocide with Sparse Additive Models</i> , pp. 3549-3552. Semenovich, Dimitri (UNSW), Sowmya, Arcot (Univ. of New South Wales), Goldsmith, Benjamin E (Univ. of Sydney)	
14:00-14:30	ThPSBT1.42
<i>Learning Dynamic Bayesian Network Discriminatively for Human Activity Recognition</i> , pp. 3553-3556. Wang, Xiaoyang (RPI), Ji, Qiang (RPI)	
14:00-14:30	ThPSBT1.43
<i>Temporal Feature Selection for Time-Series Prediction</i> , pp. 3557-3560. Hido, Shohei (Preferred Infrastructure), Morimura, Tetsuro (IBM Res. - Tokyo)	
ThPSBT2 Multi-Purpose Hall	
Poster Shotgun (14): CV (Regular Session)	
14:00-14:30	ThPSBT2.1
<i>A Modified KLT Multiple Objects Tracking Framework Based on Global Segmentation and Adaptive Template</i> , pp. 3561-3564. Xue, Kang (Beijing Inst. of Tech.), Vela, Patricio (Georgia Tech.), Liu, Yue (Beijing Inst. of Tech.), Wang, Yongtian (Beijing Inst. of Tech.)	
14:00-14:30	ThPSBT2.2
<i>Pairwise Similarities for Scene Segmentation Combining Color and Depth Data</i> , pp. 3565-3568. Bergamasco, Filippo (Univ. Ca' Foscari di Venezia), Albarelli, Andrea (Univ. Ca' Foscari di Venezia), Torsello, Andrea (Univ. Ca' Foscari), Favaro, Martina (Univ. di Padova), Zanuttigh, Pietro (Univ. di Padova)	
14:00-14:30	ThPSBT2.3
<i>Probabilistic Invariant Image Representation and Associated Distance Measure</i> , pp. 3569-3572. Scandaliaris, Jorge (Univ. Nacional de Tucumán), Sanfeliu, Alberto (-Univ. Pol. de Catalunya)	
14:00-14:30	ThPSBT2.4
<i>Single Axis Relative Rotation from Orthogonal Lines</i> , pp. 3573-3576. Elqursh, Ali (Rutgers Univ.), Elgammal, Ahmed (Rutgers Univ.)	
14:00-14:30	ThPSBT2.5
<i>Automatic Annotation of Court Games with Structured Output Learning</i> , pp. 3577-3580. Yan, Fei (Univ. of Surrey), Kittler, Josef (Univ. of Surrey)	

Mikolajczyk, Krystian (Univ. of Surrey), Windridge, David (Univ. of Surrey)		of Texas at Arlington), Metsis, Vangelis (Univ. of Texas at Arlington), Athitsos, Vassilis (Univ. of Texas at Arlington)	
14:00-14:30	ThPSBT2.6	14:00-14:30	ThPSBT2.18
<i>Articulated Particle Filter for Hand Tracking</i> , pp. 3581-3585. Ros, German (Computer Vision Center and Computer Science Dpt of UAB), Martinez-del-Rincon, Jesus (Kingston Univ.), Garcia-Mateos, Gines (Univ. deMurcia)		<i>Sparse Stereo by Edge-Based Search Using Dynamic Programming</i> , pp. 3631-3635. Witt, Jonas (Hamburg Univ. of Tech.), Weltin, Uwe (IZT at the Hamburg Univ. of Tech.)	
14:00-14:30	ThPSBT2.7	14:00-14:30	ThPSBT2.19
<i>A Direction Change-Based Algorithm for Polygonal Approximation</i> , pp. 3586-3589. Liu, Han (King Abdullah Univ. of Science and Tech.), Zhang, Xiangliang (King Abdullah Univ. of Science and Tech.), Rockwood, Alyn (KAUST)		<i>A Random Walk Approach for Multiatlas-Based Segmentation</i> , pp. 3636-3639. Morin, Jean-Philippe (Ec. de Tech. superieure), Desrosiers, Christian (Ec. de Tech. superieure), Duong, Luc (Ec. de Tech. superieure)	
14:00-14:30	ThPSBT2.8	14:00-14:30	ThPSBT2.20
<i>DFlow and DField: New Features for Capturing Object and Image Relationships</i> , pp. 3590-3593. Kisilev, Pavel (IBM Res. Haifa), Freedman, Daniel (IBM Res.), Walach, Eugene (IBM), Tzadok, Asaf (IBM Res. Lab. in Haifa)		<i>Enhancing Object Detection Performance by Integrating Motion Objectness and Perceptual Organization</i> , pp. 3640-3643. Spampinato, Concetto (Univ. of Catania, DIIT), Palazzo, Simone (Univ. of Catania)	
14:00-14:30	ThPSBT2.9	14:00-14:30	ThPSBT2.21
<i>Efficient and Robust Image Descriptor for GUI Object Classification</i> , pp. 3594-3597. Dubrovina, Anastasia (Tech. Israel Inst. of Tech.), Kisilev, Pavel (IBM Res. Haifa), Freedman, Daniel (IBM Res.), Schein, Sagi (HP), Bergman, Ruth (HP Lab. Israel)		<i>Saliency-Seeded Localizing Region-Based Active Contour for Automatic Natural Object Segmentation</i> , pp. 3644-3647. Gao, Shangbing (Nanjing Univ. of science and Tech.), Yang, Jian (Nanjing Univ. of Science and Tech.)	
14:00-14:30	ThPSBT2.10	14:00-14:30	ThPSBT2.22
<i>Learning Robust Color Name Models from Web Images</i> , pp. 3598-3601. Schauerte, Boris (Karlsruhe Inst. of Tech.), Stiefelwagen, Rainer (Karlsruhe Inst. of Tech. & Fraunhofer IOSB, Karlsruhe)		<i>Generalized Ordinary Moment Based Blur Invariant Descriptors for Face Recognition with Degraded Images</i> , pp. 3648-3651. Makaremi, Iman (Univ. of Windsor), Ahmadi, Majid (Univ. of Windsor)	
14:00-14:30	ThPSBT2.11	14:00-14:30	ThPSBT2.23
<i>Time to Contact Estimation on Paracatadioptric Cameras</i> , pp. 3602-3605. BENAMAR, Fatima Zahra (GSCM-LRIT, Mohammed V-Agdal Univ. Rabat, Morocco andMIS, U), Demonceaux, Cédric (Le2i, UMR CNRS 6306), EL FKIHI, Sanaa (ENSIAS Mohammed V Univ. Souissi), Mouaddib, El Mustapha (MIS Lab. Univ. de Picardie Jules Verne), Aboutajdine, Driss (Univ. Mohamed V -Faculty of sciences-LRIT)		<i>Semantic Hough Transform Based Object Detection with Partial Least Squares</i> , pp. 3652-3655. Tang, Jianyu (Xiamen Univ.), Wang, Hanzi (Xiamen Univ.)	
14:00-14:30	ThPSBT2.12	14:00-14:30	ThPSBT2.24
<i>Robust Depth Regularization Explicitly Constrained by Camera Motion</i> , pp. 3606-3609. Zarrouati-Vissiere, Nadège (DGA, Mines ParisTech), Aldea, Emanuel (SYSNAV), Rouchon, Pierre (Ec. des Mines ParisTech)		<i>Night Removal by Color Estimation and Sparse Representation</i> , pp. 3656-3659. Fu, Huiyuan (Beijing Univ. of Posts and Telecommunications), Ma, Huadong (Beijing Univ. of Posts and Telecommunications), Wu, Shixin (Beijing Univ. of Posts and Telecommunications)	
14:00-14:30	ThPSBT2.13	14:00-14:30	ThPSBT2.25
<i>Attention-Driven Segmentation of Cluttered 3D Scenes</i> , pp. 3610-3613. Potapova, Ekaterina (Vienna Univ. of Tech.), Zillich, Michael (Vienna Univ. of Tech.), Vincze, Markus (TU Wien)		<i>Single Camera Multi-Person Tracking Based on Crowd Simulation</i> , pp. 3660-3663. Jin, Zhixing (Univ. of California, Riverside), Bhanu, Bir (Univ. of California)	
14:00-14:30	ThPSBT2.14	14:00-14:30	ThPSBT2.26
<i>Learning Symmetrical Model for Head Pose Estimation</i> , pp. 3614-3617. Dahmane, Afifa (USTHB Univ. USTL Lille1), Larabi, slimane (usthb Univ. Algiers, Algeria), Djeraba, Chabane (UMR USTL/CNRS 8022), BILASCO, Ioan Marius (Univ. Lille 1)		<i>Illuminant Segmentation in Non-Uniformly Lit Scenes</i> , pp. 3664-3667. Huynh, Cong Phuoc (National ICT Australia (NICTA)), Robles-Kelly, Antonio (NICTA)	
14:00-14:30	ThPSBT2.16	14:00-14:30	ThPSBT2.27
<i>Unsupervised Dynamic Texture Segmentation Using Local Descriptors in Volumes</i> , pp. 3622-3625. Chen, Jie (Univ. of Oulu, Finland)		<i>Appearance-Based Object Recognition Using Weighted Longest Increasing Subsequence</i> , pp. 3668-3671. Kusuma Negara, I Gede Putra (Inst. for Infocomm Res.), Szabo, Attila (Inst. for Infocomm Res.), Li, Yiqun (Inst. for Infocomm Res.), Lee, Jimmy Addison (Inst. for Infocomm Res.)	
14:00-14:30	ThPSBT2.17	14:00-14:30	ThPSBT2.28
<i>A Viewpoint-Independent Statistical Method for Fall Detection</i> , pp. 3626-3630. Zhang, Zhong (Univ. of Texas at Arlington), Liu, Weihua (Univ.		<i>Automated Person Segmentation in Videos</i> , pp. 3672-3675. Bhole, Chetan (Univ. of Rochester), Pal, Chris (École Pol. Montréal)	
		14:00-14:30	ThPSBT2.29
		<i>Semantic Saliency Using K-TR Theory of Visual Perception</i> ,	

pp. 3676-3679.

Varadarajan, Karthik Mahesh (TU Wien), Vincze, Markus (TU Wien)

14:00-14:30 ThPSBT2.30

Pedestrian Tracking in Low Contrast Regions Using Component Silhouette and Aggregated Background Model, pp. 3680-3683.

HSU, GEE-SERN (National Taiwan Univ. of Science and Tech.), NGUYEN, HONG PHUOC (NATIONAL TAIWAN Univ. OF SCIENCE AND Tech.), Chien-Hung, Wu (Artificial Vision Lab.), Chung, Sheng-Lun (National Taiwan Univ. of Science and Tech.)

14:00-14:30 ThPSBT2.31

Robust Video Stabilization Based on Bounded Path Planing, pp. 3684-3687.

Song, Chunhe (Univ. of Waterloo), Hai, Zhao (Northeastern Univ.), Jing, Wei (Northeastern Univ.), Bi, Yuanguo (School of Information Science and Tech. NortheasternUniver)

14:00-14:30 ThPSBT2.32

A New Depth Descriptor for Pedestrian Detection in RGB-D Images, pp. 3688-3691.

Wang, Ningbo (Zhejiang Univ.), Gong, Xiaojin (Zhejiang Univ.), Liu, Jilin (Zhejiang Univ.)

14:00-14:30 ThPSBT2.33

Motion Segmentation Using Curve Fitting on Lagrangian Particle Trajectories, pp. 3692-3695.

Narayan, Sanath (Indian Inst. of Science, Bangalore), Kalpathi, Ramakrishnan (Indian Inst. of Science, Bangalore)

14:00-14:30 ThPSBT2.34

Framework for Quantitative Performance Evaluation of Shape Decomposition Algorithms, pp. 3696-3699.

Lewin, Sergej (Univ. of Münster), Jiang, Xiaoyi (Univ. of Münster), Clausing, Achim (Univ. of Münster)

14:00-14:30 ThPSBT2.35

Plane Based Multi Camera Calibration under Unknown Correspondence Using ICP-Like Approach, pp. 3700-3703.

Kawabata, Satoshi (National Inst. of Advanced IndustrialScienceandTechnology (A), Kawai, Yoshihiro (National Inst. of Advanced Industrial Science and Tech.)

14:00-14:30 ThPSBT2.36

Glocal Shape Context Descriptor in Cluttered Images, pp. 3704-3707.

Li, Shimiao (Inst. for Infocomm Res. A*STAR), Xiong, Wei (Inst. for Infocomm Res. A-STAR), Nguyen, Tan Dat (Panasonic R&D Center, Singapore)

14:00-14:30 ThPSBT2.37

Scalable Image Co-Segmentation Using Color and Covariance Features, pp. 3708-3711.

Zhang, Shijie (Tianjin Univ.), FENG, Wei (Tiajin Univ.), Wan, Liang (Tianjin Univ.), Zhang, Jiawan (Tianjin Univ.), Jiang, Jianmin (Tianjin Univ.)

14:00-14:30 ThPSBT2.38

Recognizing Surface Qualities from Natural Images Based on Learning to Rank, pp. 3712-3715.

Abe, Takashi (Tohoku Univ.), Okatani, Takayuki (Tohoku Univ.), Deguchi, Koichiro (Tohoku Univ.)

14:00-14:30 ThPSBT2.39

Unsupervised Multi-Target Trajectory Detection, Learning and Analysis in Complicated Environments, pp. 3716-3720.

Liu, Hong (Peking Univ.), Li, Jiang (Peking Univ.)

14:00-14:30 ThPSBT2.40

Position Estimation of Near Point Light Sources Using Clear Hollow Sphere, pp. 3721-3724.

Aoto, Takahito (Nara Inst. of Science and Tech.), Taketomi, Takafumi (Nara Inst. of Science and Tech.), Sato, Tomokazu (Nara Inst. of Science and Tech.), Mukaigawa, Yasuhiro (Osaka Univ.), Yokoya, Naokazu (Nara Inst. of Science and Tech.)

ThCT1 Main Hall

Handwriting (Regular Session)

Chair: Tan, Chew-Lim National Univ. of Singapore

Co-Chair: Liu, Cheng-Lin Inst. of Automation, Chinese Acad. of Sciences

14:30-14:50 ThCT1.1

Combining Online and Offline Systems for Arabic Handwriting Recognition, pp. 3725-3728.

Mansour, Hany Ahmed (The American Univ. in Cairo), Abdelazeem, Sherif (American Univ. in Cairo)

14:50-15:10 ThCT1.2

Sparse Descriptor for Lexicon Reduction in Handwritten Arabic Documents, pp. 3729-3732.

Chherawala, Youssef (Ec. de Tech. Supérieure), Wisnovsky, Robert (Inst. of Islamic Studies, McGill Univ.), Cheriet, Mohammed (École de Tech. supérieure)

15:10-15:30 ThCT1.3

Offline Signature Verification and Forgery Detection Using a 2-D Geometric Warping Approach, pp. 3733-3736.

Kennard, Douglas J. (Brigham Young Univ.), Barrett, William A. (Brigham Young Univ.), Sederberg, Thomas W. (Brigham Young Univ.)

15:30-15:50 ThCT1.4

Exploiting Ruling Line Artifacts in Writer Identification, pp. 3737-3740.

Chen, Jin (Lehigh Univ.), Lopresti, Daniel (Lehigh Univ.)

15:50-16:10 ThCT1.5

The ILGDB Database of Realistic Pen-Based Gestural Commands, pp. 3741-3744.

Renau-Ferrer, Ney (Univ. Rennes 2, UMR IRISA), LI, PEIYU (INSA de Rennes), Delaye, Adrien (IRISA - INSA), Anquetil, Eric (IRISA/INSA)

ThCT2 Multi-Purpose Hall

Imaging and Segmentation (Regular Session)

Chair: Chen, Yen-wei Ritsumeikan Univ.

Co-Chair: Kita, Yasuyo National Inst. ofAdvancedIndustrialScienceand Technology

14:30-14:50 ThCT2.1

Local Water Diffusion Phenomenon Clustering from High Angular Resolution Diffusion Imaging (HARDI), pp. 3745-3749.

Giot, Romain (Lab. GREYC , ENSICAEN - Univ.), Charrier, Christophe (Univ. de Caen), Descoteaux, Maxime (Univ. de Sherbrooke)

14:50-15:10 ThCT2.2

Texture and Shape in Fluorescence Pattern Identification for Auto-Immune Disease Diagnosis, pp. 3750-3753.

Snell, Violet (Univ. of Surrey), Christmas, William (Univ. of Surrey), Kittler, Josef (Univ. of Surrey)

15:10-15:30 ThCT2.3

A New Convex Variational Model for Liver Segmentation, pp. 3754-3757.

Peng, Jialin (Zhejiang Univ.), Wang, jinwei (Zhejiang Univ.), Kong, Dexing (Zhejiang Univ.), Yang, Wenhui (Univ. of Science and Tech. of China)

15:30-15:50	ThCT2.4
<i>Super-Resolution of MR Volumetric Images Using Sparse Representation and Self-Similarity</i> , pp. 3758-3761.	
Iwamoto, Yutaro (Ritsumeikan Univ.), Han, Xian-Hua (Ritsumeikan Univ.), Sasatani, So (Ritsumeikan Univ.), Taniguchi, Kazuki (Ritsumeikan Univ.), Xiong, Wei (Inst. for Infocomm Res. A-STAR), Chen, Yen-wei (Ritsumeikan Univ.)	

15:50-16:10	ThCT2.5
<i>A Novel Framework for Segmentation of Stroke Lesions in Diffusion Weighted MRI Using Multiple B-Value Data</i> , pp. 3762-3765.	
Mujumdar, Shashank (International Inst. of Information Tech.), Sivaswamy, Jayanthi (IIIT Hyderabad), Varma, Ravi (KIMS Hospital, Hyderabad), L.T., Kishore (CARE Hospital, Hyderabad)	

ThCT3	Room 101+102
Applications (Regular Session)	
Chair: Chen, Chu-Song	Acad. Sinica
Co-Chair: Ohta, Yuichi	Univ. of Tsukuba

14:30-14:50	ThCT3.1
<i>Connecting the Dots: Triadic Clustering of Crowdsourced Data to Map Dirt Roads</i> , pp. 3766-3769.	
Huynh, Andrew (Univ. of California, San Diego), Lin, Albert (California Inst. of Telecommunications and Information Tech.)	

14:50-15:10	ThCT3.2
<i>Real-Time Staircase Detection from a Wearable Stereo System</i> , pp. 3770-3773.	
Lee, Young Hoon (Univ. of Southern California), Leung, Tung-Sing (Univ. of Southern California), Medioni, Gerard (Univ. of Southern California)	

15:10-15:30	ThCT3.3
<i>Optimal Consensus Set and Preimage of 4-Connected Circles in a Noisy Environment</i> , pp. 3774-3777.	
Andres, Eric (Univ. of Poitiers, Lab. XLIM), Largeteau-Skapin, Gaelle (XLIM-SIC Department, Univ. of Poitiers), Zrou, Rita (Univ. of Poitiers), Sugimoto, Akihiro (National Inst. of Informatics), Kenmochi, Yukiko (Univ. Paris-Est)	

15:30-15:50	ThCT3.4
<i>Learning Action Symbols for Hierarchical Grammar Induction</i> , pp. 3778-3782.	
Lee, Kyuhwa (Imperial Coll. London), Kim, Tae-Kyun (Imperial Coll. London), Demiris, Yiannis (Imperial Coll. London)	

15:50-16:10	ThCT3.5
<i>Glass Object Localization by Joint Inference of Boundary and Depth</i> , pp. 3783-3786.	
Wang, Tao (Australian National Univ. National ICT Australia (NICTA)), He, Xuming (National ICT Australia and Australian National Univ.), Barnes, Nick (NICTA)	

ThCT4	Hall 200
3D Imaging and Application (Regular Session)	
Chair: Hancock, Edwin	Univ. of York
Co-Chair: Jiang, Xiaoyi	Univ. of Münster

14:30-14:50	ThCT4.1
<i>Image Matting with Color and Depth Information</i> , pp. 3787-3790.	
Lu, Ting (Hunan Univ.), Li, Shutao (Hunan Univ.)	

14:50-15:10	ThCT4.2
<i>A Comprehensive Polarisation Model for Surface Orientation Recovery</i> , pp. 3791-3794.	
Zhang, Lichi (Univ. of York), Hancock, Edwin (Univ. of York)	

15:10-15:30	ThCT4.3
<i>Depth Image Up-Sampling Using Ant Colony Optimization</i> , pp. 3795-3798.	
Tian, Jing (Wuhan Univ. of Science and Tech.), Chen, Li (Wuhan Univ. of Science and Tech.)	

15:30-15:50	ThCT4.4
<i>Faithful Spatio-Temporal Disocclusion Filling Using Local Optimization</i> , pp. 3799-3802.	
Schmeing, Michael (Univ. of Münster), Jiang, Xiaoyi (Univ. of Münster)	

15:50-16:10	ThCT4.5
<i>Point Cloud Transport</i> , pp. 3803-3806.	
Nakajima, Hozuma (Osaka Univ.), Makihara, Yasushi (The Inst.), Hsu, Hsu (Osaka Univ.), Mitsugami, Ikuhisa (Osaka Univ.), Nakazawa, Mitsuru (Osaka Univ.), Yamazoe, Hirotake (Osaka Univ.), Habe, Hitoshi (Kinki Univ.), Yagi, Yasushi (Osaka Univ.)	

ThCT5	Hall 300
Gesture and Action Analysis-II (Regular Session)	
Chair: Nevatia, Ram	USC
Co-Chair: Mukaigawa, Yasuhiro	Osaka Univ.

14:30-14:50	ThCT5.1
<i>Human Actions Recognition from Streamed Motion Capture</i> , pp. 3807-3810.	
Barnachon, Mathieu (Univ. de Lyon, CNRS, Univ. Lyon 1, LIRIS UMR5205), BOUAKAZ, Saida (Univ. Claude Bernard Lyon1, IIRIS Lab.), Boufama, Boubakeur (Univ. of Windsor), Guillou, Erwan (Univ. de Lyon, CNRS, Univ. Lyon 1, LIRIS UMR5205)	

14:50-15:10	ThCT5.2
<i>Inertial-Sensor-Based Walking Action Recognition Using Robust Step Detection and Inter-Class Relationships</i> , pp. 3811-3814.	
Ngo, Thanh Trung (The Inst. of Scientific and Industrial Research, Osaka University), Makihara, Yasushi (The Inst.), Nagahara, Hajime (Kyushu Univ.), Mukaigawa, Yasuhiro (Osaka Univ.), Yagi, Yasushi (Osaka Univ.)	

15:10-15:30	ThCT5.3
<i>Correlations between 48 Human Actions Improve Their Detection</i> , pp. 3815-3818.	
Burghouts, Gertjan (TNO), Schutte, Klamer (TNO Defence, Security and Safety)	

15:30-15:50	ThCT5.4
<i>Gesture Recognition System Based on Adaptive Resonance Theory</i> , pp. 3819-3822.	
Park, Paul K. J. (Samsung Advanced Inst. of Tech.), Lee, Jun Haeng (Samsung Advanced Inst. of Tech.), Shin, Chang Woo (Samsung Advanced Inst. of Tech.), Ryu, Hyun-Surk (Samsung Advanced Inst. of Tech.), Kang, Byung-Chang (Samsung Advanced Inst. of Tech.), Carpenter, Gail A. (Boston Univ.), Grossberg, Stephen (Boston Univ.)	

15:50-16:10	ThCT5.5
<i>Sparse Shift-Invariant Representation of Local 2D Patterns and Sequence Learning for Human Action Recognition</i> , pp. 3823-3826.	
BACCOUCHE, Moez (Orange Lab. R&D - LIRIS INSA Lyon), MAMALET, Franck (Orange Lab.), Wolf, Christian (INSA de Lyon), Garcia, Christophe (LIRIS - Insa de Lyon), Baskurt, Atilla (LIRIS, INSA Lyon)	