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Chu-Song Chen · Jiwen Lu
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Computer Vision – ACCV 2016 Workshops

ACCV 2016 International Workshops
Taipei, Taiwan, November 20–24, 2016
Revised Selected Papers, Part I

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Preface

It is our great pleasure to present the workshop proceedings of three LNCS volumes, which contain the papers carefully reviewed and selected from the 17 workshops that were held in conjunction with the 13th Asian Conference on Computer Vision (ACCV), during November 20–24, 2016, in Taipei, Taiwan. There are 134 papers selected from 223 papers submitted to all the 17 workshops as listed below.

1. New Trends in Image Restoration and Enhancement (NTIRE): 14 papers
2. Workshop on Assistive Vision: 6 papers
3. ACCV 2016 Workshop on Hyperspectral Image and Signal Processing: 6 papers
4. Computer Vision Technologies for Smart Vehicle: 7 papers
5. Spontaneous Facial Behavior Analysis: 8 papers
6. 3D Modelling and Applications: 16 papers
7. 4th ACCV Workshop on e-Heritage: 4 papers
8. Multiview Lip-Reading Challenges: 5 papers
9. Workshop on Facial Informatics (WFI): 11 papers
10. Discrete Geometry and Mathematical Morphology for Computer Vision: 4 papers
11. Workshop on Mathematical and Computational Methods in Biomedical Imaging and Image Analysis: 15 papers
12. International Workshop on Driver Drowsiness Detection from Video: 6 papers
13. Workshop on Meeting HCI with CV: 6 papers
14. Workshop on Human Identification for Surveillance (HIS) Methods and Applications: 8 papers
15. Benchmark and Evaluation of Surveillance Task (BEST): 9 papers
16. The Third Workshop on Computer Vision for Affective Computing (CV4AC): 3 papers
17. Workshop on Interpretation and Visualization of Deep Neural Nets: 6 papers

The workshop topics are related to computer vision and its applications, interdisciplinary themes with other application areas, as well as challenges or competitions. Every workshop handles its own paper submission system, and each paper is reviewed by two to three reviewers. We thank all the workshop organizers for their great efforts in holding these successful workshops. We also thank the help of the publication chairs in making this publication possible.

November 2016

Chu-Song Chen
Jiwen Lu
Kai-Kuang Ma

Organization

W01: 3D Modelling and Applications

Chia-Yen Chen	National University of Kaohsiung, Taiwan
Min-Chun Hu	National Cheng Kung University, Taiwan
Li-Wei Kang	National Yunlin University of Science and Technology, Taiwan
Chih-Yang Lin	Asia University, Taiwan
Tang-Kai Yin	National University of Kaohsiung, Taiwan
Guo-Shiang Lin	Da-Yeh University, Taiwan
Chia-Hung Yeh	National Sun Yat-Sen University, Taiwan

W02: 4th ACCV Workshop on e-Heritage

Katsushi Ikeuchi	Microsoft Research Asia, China
El Mustapha Mouaddib	Université de Picardie Jules Verne, France
Takeshi Masuda	AIST, Japan
Takeshi Oishi	The University of Tokyo, Japan

W03: ACCV 2016 Workshop on Hyperspectral Image and Signal Processing

Keng-Hao Liu	National Sun Yat-sen University, Taiwan
Wei-Min Liu	National Chung Cheng University, Taiwan

W04: Benchmark and Evaluation of Surveillance Task (BEST)

Xiaokang Yang	Shanghai Jiao Tong University, China
Chong-Yang Zhang	Shanghai Jiao Tong University, China
Bingbing Ni	Shanghai Jiao Tong University, China
Lin Mei	The Third Research Institute of the Ministry of Public Security, China

W05: Computer Vision Technologies for Smart Vehicle

Li-Chen Fu	National Taiwan University, Taiwan
Pei-Yung Hsiao	National University of Kaohsiung, Taiwan
Shih-Shinh Huang	National Kaohsiung First University of Science and Technology, Taiwan

W06: Discrete Geometry and Mathematical Morphology for Computer Vision

Jean Cousty	Université Paris-Est, ESIEE Paris, France
Yukiko Kenmochi	Université Paris-Est, CNRS, France
Akihiro Sugimoto	National Institute of Informatics, Japan

W07: International Workshop on Driver Drowsiness Detection from Video

Chen-Kuo Chiang	National Chung Cheng University, Taiwan
Shang-Hong Lai	National Tsing Hua University, Taiwan
Michel Sarkis	Qualcomm Technologies Inc., USA

W08: Large-Scale 3D Human Activity Analysis Challenge in Depth Videos

Gang Wang	Nanyang Technological University, Singapore
Amir Shahroudy	Nanyang Technological University, Singapore
Jun Liu	Nanyang Technological University, Singapore

W09: Multiview Lip-Reading Challenges

Ziheng Zhou	University of Oulu, Finland
Guoying Zhao	University of Oulu, Finland
Takeshi Saitoh	Kyushu Institute of Technology, Japan
Richard Bowden	University of Surrey, UK

W10: New Trends in Image Restoration and Enhancement (NTIRE)

Radu Timofte	ETH Zurich, Switzerland
Luc Van Gool	ETH Zurich, Switzerland
Ming-Hsuan Yang	University of California at Merced, USA

W11: Spontaneous Facial Behavior Analysis

Xiaopeng Hong	University of Oulu, Finland
Guoying Zhao	University of Oulu, Finland
Stefanos Zafeiriou	Imperial College London, UK
Matti Pietikäinen	University of Oulu, Finland
Maja Pantic	Imperial College London, UK

W12: The Third Workshop on Computer Vision for Affective Computing (CV4AC)

Abhinav Dhall	Abhinav Dhall, University of Waterloo, Canada
Roland Goecke	University of Canberra/Australian National University, Australia
O.V. Ramana Murthy	Amrita University, India
Jesse Hoey	University of Waterloo, Canada
Nicu Sebe	University of Trento, Italy

W13: Workshop on Assistive Vision

Chetan Arora	Indraprastha Institute of Information Technology, Delhi, India
Vineeth N. Balasubmanian	Indian Institute of Technology, Hyderabad, India
C.V. Jawahar	International Institute of Information Technology, Hyderabad, India
Vinay P. Namboodiri	Indian Institute of Technology, Kanpur, India
Ramanathan Subramanian	International Institute of Information Technology, Hyderabad, India

W14: Workshop on Facial Informatics (WFI)

Gee-Sern (Jison) Hsu	National Taiwan University of Science and Technology, Taiwan
Moi Hoon Yap	Manchester Metropolitan University, UK
Xiaogang Wang	Chinese University of Hong Kong, Hong Kong, SAR China
Su-Jing Wang	Chinese Academy of Science, China
John See	Multimedia University, Malaysia

W15: Workshop on Meeting HCI with CV

Liwei Chan	National Chiao Tung University, Taiwan and Keio Media Design, Japan
Yi-Ping Hung	National Taiwan University, Taiwan

W16: Workshop on Human Identification for Surveillance (HIS): Methods and Applications

Wei-Shi Zheng	Sun Yat-sen University, China
Ruiping Wang	Institute of Computing Technology, Chinese Academy of Sciences, China

Weihong Deng	Beijing University of Posts and Telecommunications, China
Shenghua Gao	ShanghaiTech University, China

W17: Workshop on Interpretation and Visualization of Deep Neural Nets

Alexander Binder	Singapore University of Technology and Design, Singapore
Wojciech Samek	Fraunhofer Heinrich Hertz Institute, Germany

W18: Workshop on Mathematical and Computational Methods in Biomedical Imaging and Image Analysis

Atsushi Imiya	Chiba University, Japan
Xiaoyi Jiang	Universität Münster, Germany
Hidetaka Hontani	Nagoya Institute of Technology, Japan

Contents – Part I

New Trends in Image Restoration and Enhancement (NTIRE)

Blind Image Deblurring Using Elastic-Net Based Rank Prior	3
<i>Hongyan Wang, Jinshan Pan, Zhixun Su, and Songxin Liang</i>	
Single Image Dehazing Using Fixed Points and Nearest-Neighbor Regularization.	18
<i>Shengdong Zhang and Jian Yao</i>	
Robust Noisy Image Super-Resolution Using ℓ_1 -norm Regularization and Non-local Constraint	34
<i>Bo Yue, Shuang Wang, Xuefeng Liang, and Licheng Jiao</i>	
CNN-GRNN for Image Sharpness Assessment	50
<i>Shaode Yu, Fan Jiang, Leida Li, and Yaoqin Xie</i>	
Model and Dictionary Guided Face Inpainting in the Wild.	62
<i>Reuben A. Farrugia and Christine Guillemot</i>	
Patch Group Based Bayesian Learning for Blind Image Denoising	79
<i>Jun Xu, Dongwei Ren, Lei Zhang, and David Zhang</i>	
Low-Rank Tensor Recovery and Alignment Based on ℓ_p Minimization	96
<i>Kaifei Zhang, Di Wang, Xiaoqin Zhang, Nannan Gu, Hongxing Jiang, and Xiuzi Ye</i>	
Deblurring Low-Resolution Images	111
<i>Jinshan Pan, Zhe Hu, Zhixun Su, and Ming-Hsuan Yang</i>	
Visual Smoke Detection.	128
<i>Abhishek Kumar Tripathi and Shanti Swarup</i>	
Local Feature-Based Photo Album Compression by Eliminating Redundancy of Human Partition	143
<i>Chia-Hsin Chan, Bo-Hsyuan Chen, and Wen-Jiin Tsai</i>	
Generic 3D Convolutional Fusion for Image Restoration	159
<i>Jiqing Wu, Radu Timofte, and Luc Van Gool</i>	
Video Super Resolution Using Non-Local Means with Adaptive Decaying Factor and Searching Window	177
<i>Yawei Li, Xiaofeng Li, Cui Yao, Zhizhong Fu, and Xiuxia Yin</i>	

Single Image Super-Resolution Reconstruction Based on Edge-Preserving with External and Internal Gradient Prior Knowledge	191
<i>Ruxin Wang, Congying Han, Mingqiang Li, and Tiande Guo</i>	

A Dual Adaptive Regularization Method to Remove Mixed Gaussian-Poisson Noise	206
<i>Ziling Wu, Hongxia Gao, Ge Ma, and Yanying Wan</i>	

Workshop on Assistive Vision

A Study of Combining Re-coloring and Adding Patterns to Images for Dichromats	225
<i>Wei-Ta Chu and Tsung-Han Yang</i>	

Calorie Counter: RGB-Depth Visual Estimation of Energy Expenditure at Home.	239
<i>Lili Tao, Tilo Burghardt, Majid Mirmehdi, Dima Damen, Ashley Cooper, Sion Hannuna, Massimo Camplani, Adeline Paiement, and Ian Craddock</i>	

Emotion Understanding Using Multimodal Information Based on Autobiographical Memories for Alzheimer’s Patients	252
<i>Juan Manuel Fernandez Montenegro, Athanasios Gkelias, and Vasileios Argyriou</i>	

Video Captioning via Sentence Augmentation and Spatio-Temporal Attention	269
<i>Tseng-Hung Chen, Kuo-Hao Zeng, Wan-Ting Hsu, and Min Sun</i>	

Bottom-Up Fixation Prediction Using Unsupervised Hierarchical Models . . .	287
<i>Hamed R. Tavakoli and Jorma Laaksonen</i>	

Face Detection and Object Recognition for a Retinal Prosthesis	303
<i>Derek Rollend, Paul Rosendall, Seth Billings, Philippe Burlina, Kapil Katyal, and Kevin Wolfe</i>	

Hyperspectral Image and Signal Processing

Spectral Dichromatic Parameter Recovery from Two Views via Total Variation Hyper-priors	317
<i>Filippo Bergamasco, Andrea Torsello, and Antonio Robles-Kelly</i>	

A Combinatorial Approach for Hyperspectral Image Segmentation	334
<i>José Antonio Valero Medina, Pablo Andrés Arbeláez Escalante, and Iván Alberto Lizarazo Salcedo</i>	

Hyperspectral Image Classification via a Joint Weighted K-Nearest Neighbour Approach	349
<i>Chunjuan Bo, Dong Wang, and Huchuan Lu</i>	
Perceptual Color Classification Based on Lightning Environment with Hyperspectral Data.	361
<i>Yuko Ozasa, Kenji Iwata, Naoko Enami, and Yutaka Satou</i>	
Joint Multiview Fused ELM Learning with Propagation Filter for Hyperspectral Image Classification	374
<i>Yu Shen, Liang Xiao, and Mohsen Molaei</i>	
Unsupervised Band Selection Based on Group-Based Sparse Representation	389
<i>Hung-Chang Chien, Chih-Hung Lai, and Keng-Hao Liu</i>	
Computer Vision Technologies for Smart Vehicle	
Cost-Based Feature Transfer for Vehicle Occupant Classification	405
<i>Toby Perrett and Majid Mirmehdi</i>	
The World Is Changing: Finding Changes on the Street.	420
<i>Kuan-Ting Chen, Fu-En Wang, Juan-Ting Lin, Fu-Hsiang Chan, and Min Sun</i>	
Pedestrian and Vehicle Detection and Tracking with Object-Driven Vanishing Line Estimation	436
<i>Yi-Ming Chan, Li-Chen Fu, Pei-Yung Hsiao, and Shin-Shinh Huang</i>	
Recognition of Texting-While-Walking by Joint Features Based on Arm and Head Poses	452
<i>Fumito Shinmura, Yasutomo Kawanishi, Daisuke Deguchi, Ichiro Ide, Hiroshi Murase, and Hironobu Fujiyoshi</i>	
A Motion Robust Remote-PPG Approach to Driver's Health State Monitoring	463
<i>Bing-Fei Wu, Yun-Wei Chu, Po-Wei Huang, Meng-Liang Chung, and Tzu-Min Lin</i>	
Instance-Level Segmentation of Vehicles by Deep Contours	477
<i>Jan van den Brand, Matthias Ochs, and Rudolf Mester</i>	
STFCN: Spatio-Temporal Fully Convolutional Neural Network for Semantic Segmentation of Street Scenes	493
<i>Mohsen Fayyaz, Mohammad Hajizadeh Saffar, Mohammad Sabokrou, Mahmood Fathy, Fay Huang, and Reinhard Klette</i>	

Spontaneous Facial Behavior Analysis

LBP-TOP: A Tensor Unfolding Revisit	513
<i>Xiaopeng Hong, Yingyue Xu, and Guoying Zhao</i>	
3D Convolutional Neural Networks for Facial Expression Classification	528
<i>Wenyun Sun, Haitao Zhao, and Zhong Jin</i>	
Suppression of Alpha Oscillation During Micro-expression Recognition.	544
<i>Ming Zhang, Yu-Hsin Chen, and Xiaolan Fu</i>	
Distinguishing Posed and Spontaneous Smiles by Facial Dynamics	552
<i>Bappaditya Mandal, David Lee, and Nizar Ouarti</i>	
Affective Gait Recognition and Baseline Evaluation from Real World Samples	567
<i>Vili Kellokumpu, Markus Särkiniemi, and Guoying Zhao</i>	
Weighted Non-locally Self-similarity Sparse Representation for Face Deblurring	576
<i>Lei Tian, Chunxiao Fan, Yue Ming, and Xiaopeng Hong</i>	
Fiducial Points Detection of a Face Using RBF-SVM and Adaboost Classification	590
<i>Shreyank N. Gowda</i>	
Real-Time Head Pose Estimation on Mobile Devices.	599
<i>Zhengxin Cheng and Fangyu Bai</i>	

3D Modelling and Applications

DNA-SLAM: Dense Noise Aware SLAM for ToF RGB-D Cameras	613
<i>Oliver Wasenmüller, Mohammad Dawud Ansari, and Didier Stricker</i>	
3D Shape Retrieval via Irrelevance Filtering and Similarity Ranking (IF/SR)	630
<i>Xiaqing Pan, Yueru Chen, and C.-C. Jay Kuo</i>	
Author Index	647

Contents – Part II

3D Modelling and Applications

3D Shape Reconstruction in Traffic Scenarios Using Monocular Camera and Lidar	3
<i>Qing Rao, Lars Krüger, and Klaus Dietmayer</i>	
A 3D Recognition System with Local-Global Collaboration	19
<i>Kai Sheng Cheng, Huei Yung Lin, and Tran Van Luan</i>	
Comparison of Kinect V1 and V2 Depth Images in Terms of Accuracy and Precision	34
<i>Oliver Wasenmüller and Didier Stricker</i>	
3D Line Segment Reconstruction in Structured Scenes via Coplanar Line Segment Clustering	46
<i>Kai Li, Jian Yao, Li Li, and Yahui Liu</i>	
Bio-Inspired Architecture for Deriving 3D Models from Video Sequences . . .	62
<i>Julius Schöning and Gunther Heidemann</i>	
DSLIC: A Superpixel Based Segmentation Algorithm for Depth Image	77
<i>Ali Suryaperdana Agoes, Zhencheng Hu, and Nobutomo Matsunaga</i>	
Monocular Depth Estimation of Outdoor Scenes Using RGB-D Datasets	88
<i>Tianteng Bi, Yue Liu, Dongdong Weng, and Yongtian Wang</i>	
Reconstruction of 3D Models Consisting of Line Segments	100
<i>Naoto Ienaga and Hideo Saito</i>	
3D Estimation of Extensible Surfaces Through a Local Monocular Reconstruction Technique	114
<i>S. Jafar Hosseini and Helder Araujo</i>	
Disparity Estimation by Simultaneous Edge Drawing.	124
<i>Dexmont Peña and Alistair Sutherland</i>	
Image-Based Camera Localization for Large and Outdoor Environments	136
<i>Chin-Hung Teng, Yu-Liang Chen, and Xuejie Zhang</i>	
An Efficient Meta-Algorithm for Triangulation	148
<i>Qiangong Zhang and Tat-Jun Chin</i>	

Synchronization Error Compensation of Multi-view RGB-D 3D Modeling System	162
<i>Ju-Hwan Lee, Eung-Su Kim, and Soon-Yong Park</i>	

Can Vehicle Become a New Pattern for Roadside Camera Calibration?	175
<i>Yuan Zheng and Wenyong Zhao</i>	

4th ACCV Workshop on e-Heritage

Digital Longmen Project: A Free Walking VR System with Image-Based Restoration.	191
<i>Zeyu Wang, Xiaohan Jin, Dian Shao, Renju Li, Hongbin Zha, and Katsushi Ikeuchi</i>	

Fast General Norm Approximation via Iteratively Reweighted Least Squares	207
<i>Masaki Samejima and Yasuyuki Matsushita</i>	

Radiometry Propagation to Large 3D Point Clouds from Sparsely Sampled Ground Truth	222
<i>Thomas Höll and Axel Pinz</i>	

A 3D Reconstruction Method with Color Reproduction from Multi-band and Multi-view Images	236
<i>Shuya Ito, Koichi Ito, Takafumi Aoki, and Masaru Tsuchida</i>	

Multi-view Lip-Reading Challenges

Out of Time: Automated Lip Sync in the Wild	251
<i>Joon Son Chung and Andrew Zisserman</i>	

Visual Speech Recognition Using PCA Networks and LSTMs in a Tandem GMM-HMM System	264
<i>Marina Zimmermann, Mostafa Mehdipour Ghazi, Hazım Kemal Ekenel, and Jean-Philippe Thiran</i>	

Concatenated Frame Image Based CNN for Visual Speech Recognition.	277
<i>Takeshi Saitoh, Ziheng Zhou, Guoying Zhao, and Matti Pietikäinen</i>	

Multi-view Automatic Lip-Reading Using Neural Network.	290
<i>Daehyun Lee, Jongmin Lee, and Kee-Eung Kim</i>	

Lip Reading from Multi View Facial Images Using 3D-AAM	303
<i>Takuya Watanabe, Kouichi Katsurada, and Yasushi Kanazawa</i>	

Workshop on Facial Informatics (WFI)

Face Detection by Aggregating Visible Components	319
<i>Jiali Duan, Shengcai Liao, Xiaoyuan Guo, and Stan Z. Li</i>	
Deep Architectures for Face Attributes.	334
<i>Tobi Baumgartner and Jack Culpepper</i>	
Automatic Micro-expression Recognition from Long Video Using a Single Spotted Apex	345
<i>Sze-Teng Liong, John See, KokSheik Wong, and Raphael Chung-Wei Phan</i>	
Failure Detection for Facial Landmark Detectors.	361
<i>Andreas Steger and Radu Timofte</i>	
Fitting a 3D Morphable Model to Edges: A Comparison Between Hard and Soft Correspondences	377
<i>Anil Bas, William A.P. Smith, Timo Bolkart, and Stefanie Wuhrer</i>	
Multiple Facial Attributes Estimation Based on Weighted Heterogeneous Learning.	392
<i>Hiroshi Fukui, Takayoshi Yamashita, Yuu Kato, Ryo Matsui, T. Ogata, Yuji Yamauchi, and Hironobu Fujiyoshi</i>	
Reliable Age Estimation Based on Apt Gabor Features Selection and SVM. . . .	407
<i>ArulMurugan Ambikapathi, Yi-Tseng Cheng, Gee-Sern(Jison) Hsu, and Cheng-Hua Hsieh</i>	
VFSC: A Very Fast Sparse Clustering to Cluster Faces from Videos.	417
<i>Dinh-Luan Nguyen and Minh-Triet Tran</i>	
Deep or Shallow Facial Descriptors? A Case for Facial Attribute Classification and Face Retrieval.	434
<i>Rasoul Banaeeyan, Mohd Haris Lye, Mohammad Faizal Ahmad Fauzi, Hezerul Abdul Karim, and John See</i>	
A Main Directional Maximal Difference Analysis for Spotting Micro-expressions	449
<i>Su-Jing Wang, Shuhang Wu, and Xiaolan Fu</i>	
Aesthetic Evaluation of Facial Portraits Using Compositional Augmentation for Deep CNNs	462
<i>Magzhan Kairanbay, John See, and Lai-Kuan Wong</i>	

Discrete Geometry and Mathematical Morphology for Computer Vision

Discrete Polynomial Curve Fitting Guaranteeing Inclusion-Wise Maximality of Inlier Set.	477
<i>Fumiki Sekiya and Akihiro Sugimoto</i>	
A Discrete Approach for Decomposing Noisy Digital Contours into Arcs and Segments	493
<i>Phuc Ngo, Hayat Nasser, and Isabelle Debled-Rennesson</i>	
Mathematical Morphology on Irregularly Sampled Signals	506
<i>Teo Asplund, Cris L. Luengo Hendriks, Matthew J. Thurley, and Robin Strand</i>	
Adaptive Moving Shadows Detection Using Local Neighboring Information	521
<i>Bingshu Wang, Yule Yuan, Yong Zhao, and Wenbin Zou</i>	

Workshop on Mathematical and Computational Methods in Biomedical Imaging and Image Analysis

Cell Lineage Tree Reconstruction from Time Series of 3D Images of Zebrafish Embryogenesis	539
<i>Robert Spir, Karol Mikula, and Nadine Peyrieras</i>	
Binary Pattern Dictionary Learning for Gene Expression Representation in Drosophila Imaginal Discs	555
<i>Jiří Borovec and Jan Kybic</i>	
T-Test Based Adaptive Random Walk Segmentation Under Multiplicative Speckle Noise Model.	570
<i>Ang Bian and Xiaoyi Jiang</i>	
Langerhans Islet Volume Estimation from 3D Optical Projection Tomography	583
<i>Jan Švihlík, Jan Kybic, David Habart, Hanna Hlushak, Jiří Dvořák, and Barbora Radochová</i>	
Level Set Segmentation of Brain Matter Using a Trans-Roto-Scale Invariant High Dimensional Feature	595
<i>Naveen Madiraju, Amarjot Singh, and S.N. Omkar</i>	
Discriminative Subtree Selection for NBI Endoscopic Image Labeling	610
<i>Tsubasa Hirakawa, Toru Tamaki, Takio Kurita, Bisser Raytchev, Kazufumi Kaneda, Chaohui Wang, Laurent Najman, Tetsushi Koide, Shigeto Yoshida, Hiroshi Mieno, and Shinji Tanaka</i>	

Modelling Respiration Induced Torso Deformation Using a Mesh Fitting Algorithm	625
<i>Haobo Yu, Harvey Ho, Adam Bartlett, and Peter Hunter</i>	
Author Index	635

Contents – Part III

Workshop on Mathematical and Computational Methods in Biomedical Imaging and Image Analysis

Segmentation of Trabecular Bone for In Vivo CT Imaging Using a Novel Approach of Computing Spatial Variation in Bone and Marrow Intensities. . .	3
<i>Cheng Chen, Dakai Jin, Xiaoliu Zhang, Steven M. Levy, and Punam K. Saha</i>	
Approximation of N -Way Principal Component Analysis for Organ Data. . . .	16
<i>Hayato Itoh, Atsushi Imiya, and Tomoya Sakai</i>	
Bayesian Saliency Model for Focal Liver Lesion Enhancement and Detection	32
<i>Xian-Hua Han, Jian Wang, Yuu Konno, and Yen-Wei Chen</i>	
A Novel Iterative Method for Airway Tree Segmentation from CT Imaging Using Multiscale Leakage Detection	46
<i>Syed Ahmed Nadeem, Dakai Jin, Eric A. Hoffman, and Punam K. Saha</i>	
Rapid Analytic Optimization of Quadratic ICP Algorithms.	61
<i>Leonid German, Jens R. Ziehn, and Bodo Rosenhahn</i>	
Segmentation of Partially Overlapping Convex Objects Using Branch and Bound Algorithm	76
<i>Sahar Zafari, Tuomas Eerola, Jouni Sampo, Heikki Kälviäinen, and Heikki Haario</i>	
Classification of Lung Nodule Malignancy Risk on Computed Tomography Images Using Convolutional Neural Network: A Comparison Between 2D and 3D Strategies	91
<i>Xingjian Yan, Jianing Pang, Hang Qi, Yixin Zhu, Chunxue Bai, Xin Geng, Mina Liu, Demetri Terzopoulos, and Xiaowei Ding</i>	
A Hybrid Convolutional Neural Network for Plankton Classification.	102
<i>Jialun Dai, Zhibin Yu, Haiyong Zheng, Bing Zheng, and Nan Wang</i>	

International Workshop on Driver Drowsiness Detection from Video

Driver Drowsiness Detection via a Hierarchical Temporal Deep Belief Network	117
<i>Ching-Hua Weng, Ying-Hsiu Lai, and Shang-Hong Lai</i>	

Detection of Driver Drowsiness Using 3D Deep Neural Network and Semi-Supervised Gradient Boosting Machine	134
<i>Xuan-Phung Huynh, Sang-Min Park, and Yong-Guk Kim</i>	
MSTN: Multistage Spatial-Temporal Network for Driver Drowsiness Detection	146
<i>Tun-Huai Shih and Chiou-Ting Hsu</i>	
Driver Drowsiness Detection System Based on Feature Representation Learning Using Various Deep Networks	154
<i>Sanghyuk Park, Fei Pan, Sunghun Kang, and Chang D. Yoo</i>	
Representation Learning, Scene Understanding, and Feature Fusion for Drowsiness Detection	165
<i>Jongmin Yu, Sangwoo Park, Sangwook Lee, and Moongu Jeon</i>	
Joint Shape and Local Appearance Features for Real-Time Driver Drowsiness Detection	178
<i>Jie Lyu, Hui Zhang, and Zejian Yuan</i>	
Workshop on Meeting HCI with CV	
3D Pose Estimation of a Front-Pointing Hand Using a Random Regression Forest	197
<i>Dai Fujita and Takashi Komuro</i>	
Fingertips Tracking Algorithm for Guitarist Based on Temporal Grouping and Pattern Analysis	212
<i>Zhao Wang and Jun Ohya</i>	
Intuitive Pointing Position Estimation for Large Scale Display Interaction in Top-View Depth Images	227
<i>Hye-mi Kim, Daehwan Kim, Yong Sun Kim, and Ki-Hong Kim</i>	
Investigating Size Personalization for More Accurate Eye Tracking Glasses . . .	239
<i>Yi-Yu Hsieh, Chia-Chen Liu, Wei-Lin Wang, and Jen-Hui Chuang</i>	
HeadPager: Page Turning with Computer Vision Based Head Interaction	249
<i>Zhenyu Tang, Chenyu Yan, Sijie Ren, and Huagen Wan</i>	
Exploring Manipulation Behavior on Video See-Through Head-Mounted Display with View Interpolation	258
<i>Chun-Jui Lai, Ping-Hsuan Han, Han-Lei Wang, and Yi-Ping Hung</i>	

Workshop on Human Identification for Surveillance (HIS) Methods and Applications

Multi-cue Information Fusion for Two-Layer Activity Recognition	273
<i>Yanli Ji, Jiaming Li, Hong Cheng, Xing Xu, and Jingkuan Song</i>	
Piecewise Video Condensation for Complex Scenes	286
<i>Yingying Chen, La Zhang, Jinqiao Wang, and Hanqing Lu</i>	
Unsupervised Person Re-identification via Graph-Structured Image Matching	301
<i>Bolei Xu and Guoping Qiu</i>	
Saliency-Based Person Re-identification by Probability Histogram.	315
<i>Zongyan Zhang, Cairong Zhao, Duoqian Miao, Xuekuan Wang, Zhihui Lai, and Jian Yang</i>	
Gait Gate: An Online Walk-Through Multimodal Biometric Verification System Using a Single RGB-D Sensor.	330
<i>Mohamed Hasan, Yasushi Makihara, Daigo Muramatsu, and Yasushi Yagi</i>	
3D Object Recognition with Enhanced Grassmann Discriminant Analysis . . .	345
<i>Lincon Sales de Souza, Hideitsu Hino, and Kazuhiro Fukui</i>	
An Extended Sparse Classification Framework for Domain Adaptation in Video Surveillance	360
<i>Farshad Nourbakhsh, Eric Granger, and Giorgio Fumera</i>	
BCP-BCS: Best-Fit Cascaded Matching Paradigm with Cohort Selection Using Bezier Curve for Individual Recognition.	377
<i>Jogendra Garain, Adarsh Shah, Ravi Kant Kumar, Dakshina Ranjan Kisku, and Goutam Sanyal</i>	

Benchmark and Evaluation of Surveillance Task (BEST)

BEST: Benchmark and Evaluation of Surveillance Task.	393
<i>Chongyang Zhang, Bingbing Ni, Li Song, Guangtao Zhai, Xiaokang Yang, and Wenjun Zhang</i>	
Multiple-Shot Person Re-identification via Riemannian Discriminative Learning	408
<i>Yuheng Lu, Ruiping Wang, Shiguang Shan, and Xilin Chen</i>	
Visually Similar K -poselets Based Human Pose Recognition	426
<i>Shoucheng Ni, Weiwei Liu, Hao Cheng, and Chongyang Zhang</i>	

Public Security Video and Image Analysis Challenge: A Retrospective	441
<i>Gengjian Xue, Wenfei Wang, Jie Shao, Chen Liang, Jinjing Wu, Hui Yang, Xiaoteng Zhang, Lin Mei, and Chuanping Hu</i>	
Multiple-Branches Faster RCNN for Human Parts Detection and Pose Estimation	453
<i>Kaiqiang Wei and Xu Zhao</i>	
SPID: Surveillance Pedestrian Image Dataset and Performance Evaluation for Pedestrian Detection	463
<i>Dan Wang, Chongyang Zhang, Hao Cheng, Yanfeng Shang, and Lin Mei</i>	
Actions Recognition in Crowd Based on Coarse-to-Fine Multi-object Tracking	478
<i>Sixue Gong, Hu Han, Shiguang Shan, and Xilin Chen</i>	
Multi-view Multi-exposure Image Fusion Based on Random Walks Model	491
<i>Xiao Xue and Yue Zhou</i>	
Attributes and Action Recognition Based on Convolutional Neural Networks and Spatial Pyramid VLAD Encoding	500
<i>Shiyang Yan, Jeremy S. Smith, and Bailing Zhang</i>	
The Third Workshop on Computer Vision for Affective Computing (CV4AC)	
Expression Recognition with Ri-HOG Cascade	517
<i>Jinhui Chen, Zhaojie Luo, Tetsuya Takiguchi, and Yasuo Ariki</i>	
The LFW-Gender Dataset	531
<i>Ahsan Jalal and Usman Tariq</i>	
Thermal Imaging Based Elderly Fall Detection	541
<i>Somasundaram Vadivelu, Sudakshin Ganesan, O.V. Ramana Murthy, and Abhinav Dhall</i>	
Workshop on Interpretation and Visualization of Deep Neural Nets	
Multi-Scale Hierarchy Deep Feature Aggregation for Compact Image Representations	557
<i>Zhenbing Zhao, Guozhi Xu, and Yincheng Qi</i>	
Glance and Glimpse Network: A Stochastic Attention Model Driven by Class Saliency	572
<i>Mingming Li, Shuzhi Sam Ge, and Tong Heng Lee</i>	

Fine-Tuning Deep Neural Networks in Continuous Learning Scenarios	588
<i>Christoph Käding, Erik Rodner, Alexander Freytag, and Joachim Denzler</i>	
Dense Residual Pyramid Networks for Salient Object Detection	606
<i>Ziqin Wang, Peilin Jiang, and Fei Wang</i>	
Quantitative Analysis of a Bioplausible Model of Misperception of Slope in the Café Wall Illusion	622
<i>Nasim Nematzadeh, David M.W. Powers, and Trent Lewis</i>	
Image Patch Matching Using Convolutional Descriptors with Euclidean Distance.	638
<i>Iaroslav Melekhov, Juho Kannala, and Esa Rahtu</i>	
Author Index	655