

## Contents – Part II

### Poster Session 2

The Curious Robot: Learning Visual Representations via Physical Interactions. . . . .	3
<i>Lerrel Pinto, Dhiraj Gandhi, Yuanfeng Han, Yong-Lae Park, and Abhinav Gupta</i>	
Image Co-localization by Mimicking a Good Detector’s Confidence Score Distribution . . . . .	19
<i>Yao Li, Lingqiao Liu, Chunhua Shen, and Anton van den Hengel</i>	
Facilitating and Exploring Planar Homogeneous Texture for Indoor Scene Understanding . . . . .	35
<i>Shahzor Ahmad and Loong-Fah Cheong</i>	
An Empirical Study and Analysis of Generalized Zero-Shot Learning for Object Recognition in the Wild. . . . .	52
<i>Wei-Lun Chao, Soravit Changpinyo, Boqing Gong, and Fei Sha</i>	
Modeling Context in Referring Expressions . . . . .	69
<i>Licheng Yu, Patrick Poirson, Shan Yang, Alexander C. Berg, and Tamara L. Berg</i>	
Taxonomy-Regularized Semantic Deep Convolutional Neural Networks. . . . .	86
<i>Wonjoon Goo, Juyong Kim, Gunhee Kim, and Sung Ju Hwang</i>	
Playing for Data: Ground Truth from Computer Games . . . . .	102
<i>Stephan R. Richter, Vibhav Vineet, Stefan Roth, and Vladlen Koltun</i>	
Human Re-identification in Crowd Videos Using Personal, Social and Environmental Constraints . . . . .	119
<i>Shayan Modiri Assari, Haroon Idrees, and Mubarak Shah</i>	
Revisiting Additive Quantization. . . . .	137
<i>Julieta Martinez, Joris Clement, Holger H. Hoos, and James J. Little</i>	
Single Image Dehazing via Multi-scale Convolutional Neural Networks. . . . .	154
<i>Wenqi Ren, Si Liu, Hua Zhang, Jinshan Pan, Xiaochun Cao, and Ming-Hsuan Yang</i>	
Photometric Stereo Under Non-uniform Light Intensities and Exposures . . . . .	170
<i>Donghyeon Cho, Yasuyuki Matsushita, Yu-Wing Tai, and Inso Kweon</i>	

Visual Motif Discovery via First-Person Vision . . . . .	187
<i>Ryo Yonetani, Kris M. Kitani, and Yoichi Sato</i>	
A Cluster Sampling Method for Image Matting via Sparse Coding . . . . .	204
<i>Xiaoxue Feng, Xiaohui Liang, and Zili Zhang</i>	
Fundamental Matrices from Moving Objects Using Line Motion Barcodes . . .	220
<i>Yoni Kasten, Gil Ben-Artzi, Shmuel Peleg, and Michael Werman</i>	
Fashion Landmark Detection in the Wild . . . . .	229
<i>Ziwei Liu, Sijie Yan, Ping Luo, Xiaogang Wang, and Xiaoou Tang</i>	
Human Pose Estimation Using Deep Consensus Voting . . . . .	246
<i>Ita Lifshitz, Ethan Fetaya, and Shimon Ullman</i>	
Leveraging Visual Question Answering for Image-Caption Ranking . . . . .	261
<i>Xiao Lin and Devi Parikh</i>	
DAVE: A Unified Framework for Fast Vehicle Detection and Annotation . . .	278
<i>Yi Zhou, Li Liu, Ling Shao, and Matt Mellor</i>	
Real-Time Joint Tracking of a Hand Manipulating an Object from RGB-D Input . . . . .	294
<i>Srinath Sridhar, Franziska Mueller, Michael Zollhöfer, Dan Casas, Antti Oulasvirta, and Christian Theobalt</i>	
DeepWarp: Photorealistic Image Resynthesis for Gaze Manipulation . . . . .	311
<i>Yaroslav Ganin, Daniil Kononenko, Diana Sungatullina, and Victor Lempitsky</i>	
Non-rigid 3D Shape Retrieval via Large Margin Nearest Neighbor Embedding . . . . .	327
<i>Ioannis Chiotellis, Rudolph Triebel, Thomas Windheuser, and Daniel Cremers</i>	
Multi-Task Zero-Shot Action Recognition with Prioritised Data Augmentation . . . . .	343
<i>Xun Xu, Timothy M. Hospedales, and Shaogang Gong</i>	
Head Reconstruction from Internet Photos . . . . .	360
<i>Shu Liang, Linda G. Shapiro, and Ira Kemelmacher-Shlizerman</i>	
Support Discrimination Dictionary Learning for Image Classification . . . . .	375
<i>Yang Liu, Wei Chen, Qingchao Chen, and Ian Wassell</i>	
Accelerating the Super-Resolution Convolutional Neural Network . . . . .	391
<i>Chao Dong, Chen Change Loy, and Xiaoou Tang</i>	

Symmetric Non-rigid Structure from Motion for Category-Specific Object Structure Estimation . . . . .	408
<i>Yuan Gao and Alan L. Yuille</i>	
Peak-Piloted Deep Network for Facial Expression Recognition . . . . .	425
<i>Xiangyun Zhao, Xiaodan Liang, Luoqi Liu, Teng Li, Yugang Han, Nuno Vasconcelos, and Shuicheng Yan</i>	
Is Faster R-CNN Doing Well for Pedestrian Detection? . . . . .	443
<i>Liliang Zhang, Liang Lin, Xiaodan Liang, and Kaiming He</i>	
Coarse-to-fine Planar Regularization for Dense Monocular Depth Estimation . . . . .	458
<i>Stephan Liwicki, Christopher Zach, Ondrej Miksik, and Philip H.S. Torr</i>	
Deep Attributes Driven Multi-camera Person Re-identification . . . . .	475
<i>Chi Su, Shiliang Zhang, Junliang Xing, Wen Gao, and Qi Tian</i>	
An Occlusion-Resistant Ellipse Detection Method by Joining Coelliptic Arcs . . . . .	492
<i>Halil Ibrahim Cakir, Cihan Topal, and Cuneyt Akinlar</i>	
Branching Path Following for Graph Matching . . . . .	508
<i>Tao Wang, Haibin Ling, Congyan Lang, and Jun Wu</i>	
Higher Order Conditional Random Fields in Deep Neural Networks . . . . .	524
<i>Anurag Arnab, Sadeep Jayasumana, Shuai Zheng, and Philip H.S. Torr</i>	
LSTM-CF: Unifying Context Modeling and Fusion with LSTMs for RGB-D Scene Labeling . . . . .	541
<i>Zhen Li, Yukang Gan, Xiaodan Liang, Yizhou Yu, Hui Cheng, and Liang Lin</i>	
Stereo Video Deblurring . . . . .	558
<i>Anita Sellent, Carsten Rother, and Stefan Roth</i>	
Robust Image and Video Dehazing with Visual Artifact Suppression via Gradient Residual Minimization . . . . .	576
<i>Chen Chen, Minh N. Do, and Jue Wang</i>	
Smooth Neighborhood Structure Mining on Multiple Affinity Graphs with Applications to Context-Sensitive Similarity . . . . .	592
<i>Song Bai, Shaoyan Sun, Xiang Bai, Zhaoxiang Zhang, and Qi Tian</i>	
Title Generation for User Generated Videos . . . . .	609
<i>Kuo-Hao Zeng, Tseng-Hung Chen, Juan Carlos Niebles, and Min Sun</i>	
Natural Image Matting Using Deep Convolutional Neural Networks . . . . .	626
<i>Donghyeon Cho, Yu-Wing Tai, and Inso Kweon</i>	

Double-Opponent Vectorial Total Variation . . . . .	644
<i>Freddie Åström and Christoph Schnörr</i>	
Learning to Count with CNN Boosting . . . . .	660
<i>Elad Walach and Lior Wolf</i>	
Amodal Instance Segmentation . . . . .	677
<i>Ke Li and Jitendra Malik</i>	
Perceptual Losses for Real-Time Style Transfer and Super-Resolution . . . . .	694
<i>Justin Johnson, Alexandre Alahi, and Li Fei-Fei</i>	

### Optimization

An Efficient Fusion Move Algorithm for the Minimum Cost Lifted Multicut Problem . . . . .	715
<i>Thorsten Beier, Björn Andres, Ullrich Köthe, and Fred A. Hamprecht</i>	
$\ell^0$ -Sparse Subspace Clustering . . . . .	731
<i>Yingzhen Yang, Jiashi Feng, Nebojsa Jojic, Jianchao Yang, and Thomas S. Huang</i>	
Normalized Cut Meets MRF. . . . .	748
<i>Meng Tang, Dmitrii Marin, Ismail Ben Ayed, and Yuri Boykov</i>	
Fast Global Registration. . . . .	766
<i>Qian-Yi Zhou, Jaesik Park, and Vladlen Koltun</i>	

### Poster Session 3

Polysemous Codes . . . . .	785
<i>Matthijs Douze, Hervé Jégou, and Florent Perronnin</i>	
Binary Hashing with Semidefinite Relaxation and Augmented Lagrangian . . .	802
<i>Thanh-Toan Do, Anh-Dzung Doan, Duc-Thanh Nguyen, and Ngai-Man Cheung</i>	
Efficient Continuous Relaxations for Dense CRF . . . . .	818
<i>Alban Desmaison, Rudy Bunel, Pushmeet Kohli, Philip H.S. Torr, and M. Pawan Kumar</i>	
Complexity of Discrete Energy Minimization Problems . . . . .	834
<i>Mengtian Li, Alexander Shekhovtsov, and Daniel Huber</i>	

A Convex Solution to Spatially-Regularized Correspondence Problems . . . . .	853
<i>Thomas Windheuser and Daniel Cremers</i>	
A Deep Learning-Based Approach to Progressive Vehicle Re-identification for Urban Surveillance. . . . .	869
<i>Xinchen Liu, Wu Liu, Tao Mei, and Huadong Ma</i>	
<b>Author Index</b> . . . . .	885

Computer Vision – ECCV 2016

14th European Conference, Amsterdam, The

Netherlands, October 11–14, 2016, Proceedings, Part II

Leibe, B.; Matas, J.; Sebe, N.; Welling, M. (Eds.)

2016, XXIX, 887 p. 342 illus., Softcover

ISBN: 978-3-319-46474-9