

2012 IEEE Computer Society Conference on Computer Vision and Pattern Recognition Workshops

(CVPRW 2012)

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Part 1 of 2



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Workshops

Saturday, June 16

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3D Cinematography (3DCINE)

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Authors: Feng Liu, Yuzhen Niu, Hailin Jin

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Authors: Wei-Jia Huang, An-Chun Luo, Wen-Chao Chen, Wei-Hao Huang

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Authors: Janusz Konrad, Meng Wang, Prakash Ishwar

The Measurement of Eyestrain Caused from Diverse Binocular Disparities, Viewing Time and Display Sizes in Watching Stereoscopic 3D Contents 23

Authors: Sang-Hyun Cho, Hang-Bong Kang

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Authors: Jianhui Chen, Karim Benzeroual, Robert S. Allison

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Authors: Harlyn Baker, Gregorij Kurillo, Zeyu Li, Q Luong, Constantin Papadas

3D Display Size Matters: Compensating for the Perceptual Effects of S3D Display Scaling 45

Authors: Karim Benzeroual, Robert S. Allison, Laurie M. Wilcox

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Authors: Jiaping Zhao, Suya You
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Authors: Agis Mesolongitis, Ioannis Stamos

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Authors: Patrick Marion, Roland Kwitt, Brad Davis, Michael Gschwandtner

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Authors: Nil Goyette, Pierre Jodoin, Fatih Porikli, Janusz Konrad, Prakash Ishwar

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Perceptual Organization in Computer Vision (POCV)

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Authors: Maruthi Narayanan, Benjamin Kimia	

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Authors: Rizwan Ahmed Khan, Alexandre Meyer, Hubert Konik, Saida Bouakaz

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Vision Industry & Entrepreneur Workshop (VIEW)

Ballroom C

This workshop does not have published papers.

Egocentric Vision (EgoVision)

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Authors: Keisuke Ogaki, Kris M. Kitani, Yusuke Sugano, Yoichi Sato

Wearable Omnidirectional Vision System for Personal Localization and Guidance 8

Authors: Ana C. Murillo, Daniel Gutiérrez-Gómez, Alejandro Rituerto, Luis Puig, Josechu J. Guerrero

Consistency Analysis and Improvement for Single-camera Localization 15

Authors: Joel A. Hesch, Stergios I. Roumeliotis

Adaptive Object Tracking by Learning Background Context 23

Authors: Ali Borji, Simone Frintrop, Dicky N. Sihite, Laurent Itti

Projector-Camera Systems (PROCAMS)

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Authors: Toshiyuki Amano
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Gradient Domain Color Restoration of Clipped Highlights 7

Authors: Mushfiqur Rouf, Cheryl Lau, Wolfgang Heidrich
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Dominant Material Identification

Authors: Christoph Mertz, Sanjeev J. Koppal, Solomon Sia, Srinivas Narasimhan

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Authors: Aydin Arpa, Gordon Wetzstein, Douglas Lanman, Ramesh Raskar
[Supplemental Material]

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Authors: Jingwen Dai, Ronald Chung
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Authors: Andrew Dolce, Joshua Nasman, Barbara Cutler
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Workshop on Camera Networks & Wide Area Scene Analysis (WCNWASA)
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Authors: Kang-Yu Ni, Terrell N. Mundhenk, Kyungnam Kim, Yuri Owechko

Object Browsing and Searching in A Camera Network using Graph Models **7**

Authors: Zefeng Ni, Jiejun Xu, B. S. Manjunath

Detecting and Tracking All Moving Objects in Wide-Area Aerial Video **15**

Authors: Thomas Pollard, Matthew Antone
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2D and 3D Visualization with Dual-Resolution for Surveillance **23**

Authors: Shen-Chi Chen, Chung-Yi Lee, Chih-Wei Lin, Iok-Long Chan, Yong-Sheng Chen, Sheng-Wen Shih, Yi-Ping Hung

Re-Identify people in wide area camera network **31**

Authors: Niki Martinel, Christian Micheloni

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Authors: Jan Prokaj, Xuemei Zhao, Gérard Medioni

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Authors: Grace Vesom

Using Scene Features to Improve Wide-Area Video Surveillance **50**

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Authors: Bernhard Rinner, Bernhard Dieber, Lukas Esterle, Peter R. Lewis, Xin Yao

Biometrics (BIOM)

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Authors: Jonghyun Choi, Abhishek Sharma, David W. Jacobs, Larry S. Davis

Preliminary Studies on the Good, the Bad, and the Ugly Face Recognition Challenge Problem 9

Authors: Yui Man Lui, David Bolme, P. Jonathon Phillips, J. Ross Beveridge, Bruce A. Draper

A Passive Stereo System for 3D Human Face Reconstruction and Recognition at a Distance 17

Authors: Mostafa Abdelrahman, Asem Ali, Shireen Elhabian, Ham Rara, Aly A. Farag

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Authors: Tomoki Hosoi, Sei Nagashima, Koji Kobayashi, Koichi Ito, Takafumi Aoki

Face Detection at a Distance using Saliency Maps 31

Authors: Ahmed EL-Barkouky, Ham Rara, Aly Farag, Phil Womble

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Iris Recognition using Quaternionic Sparse Orientation Code (QSOC) 59

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Frontiers in Computer Vision: Outreach and Core (FiCV)

Ballroom B

This workshop does not have published papers.

Human Activity Understanding from 3D Data (HAU3D)

Ballroom C

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Sequence of the Most Informative Joints (SMIJ): A New Representation for Human Skeletal Action Recognition	8
Authors: Ferda Ofli, Rizwan Chaudhry, Gregorij Kurillo, René Vidal, Ruzena Bajcsy	
EigenJoints-based Action Recognition Using Naïve-Bayes-Nearest-Neighbor	14
Authors: Xiaodong Yang, YingLi Tian	
View Invariant Human Action Recognition Using Histograms of 3D Joints	20
Authors: Lu Xia, Chia-Chih Chen, J.K. Aggarwal	
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Authors: Kiwon Yun, Jean Honorio, Debaleena Chattopadhyay, Tamara L. Berg, Dimitris Samaras [Supplemental Material]	
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Authors: Prabhu Kaliamoorthi, Ramakrishna Kakarala	
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Authors: Pashalis Padeleris, Xenophon Zabulis, Antonis A. Argyros [Supplemental Material]	
Scene Flow by Tracking in Intensity and Depth Data	50
Authors: Julian Quiroga, Frédéric Devernay, James Crowley	
3D Skeletal Reconstruction from Low-resolution Multi-view Images	58
Authors: Mayank Rana, Graham Taylor, Ian Spriro, Christoph Bregler	
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Medical Computer Vision (MCV)

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Color-Based Hybrid Reconstruction for Endoscopy	8
Authors: Haluk N. Tokgozoglu, Eric M. Meisner, Michael Kazhdan, Gregory D. Hager	
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Authors: Quannan Li, Cong Yao, Liwei Wang, Zhuowen Tu	
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Authors: Dijia Wu, David Liu, Michael Suehling, Christian Tietjen, Grzegorz Soza, Kevin S. Zhou	
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Authors: Austin Reiter, Peter K. Allen, Tao Zhao [Supplemental Material]	
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Authors: Claire R. Donoghue, Anil Rao, Luis Pizarro, Anthony M. J. Bull, Daniel Rueckert	
Fully Automated 3D Colon Segmentation for Early Detection of Colorectal Cancer based on Convex Formulation of the Active Contour Model	58
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Authors: Aly S. Abdelrahim, Moumen T. El-Melegy, Aly A. Farag	
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Authors: Faten M'hiri, Luc Duong, Christian Desrosiers	
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Authors: Viktor Gál, Etienne Kerre, Mike Nachtegaele	
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Large-Scale Video Search and Mining (LSVSM)

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Authors: Gilad Sharir, Tinne Tuytelaars	
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Authors: Do Hang Nga, Keiji Yanai	
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Authors: Vijay Kumar B G, Ioannis Patras	
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Authors: Joel Jurik, Thomas Burnett, Michael Klug, Paul Debevec	
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Authors: Prabath Gunawardane, Steven Scher, James Davis	
Light Field Denoising, Light Field Superresolution and Stereo Camera Based Refocussing using a GMM Light Field Patch Prior	22

Authors: Kaushik Mitra, Ashok Veeraraghavan

A Kaleidoscopic Approach to Surround Geometry and Reflectance Acquisition **29**

Authors: Ivo Ihrke, Ilya Reshetouski, Alkhazur Manakov, Art Tevs, Michael Wand,
Hans-Peter Seidel

Socially Intelligent Surveillance and Monitoring (SISM)

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Violent Flows: Real-Time Detection of Violent Crowd Behavior **1**

Authors: Tal Hassner, Yossi Itcher, Orit Kliper-Gross

Parameterizing Interpersonal Behaviour with Laban Movement Analysis - A Bayesian Approach - **7**

Authors: Kamrad Khoshhal Roudposhti, Luís Santos, Hadi Aliakbarpour, Jorge Miranda
Dias

A Dynamic Curvature Based Approach For Facial Activity Analysis in 3D Space **14**

Authors: Shaun Canavan, Yi Sun, Xing Zhang, Lijun Yin

Understanding Dyadic Interactions Applying Proxemic Theory on Videosurveillance Trajectories **20**

Authors: Simone Calderara, Rita Cucchiara

Urban Tribes: Analyzing Group Photos from a Social Perspective. **28**

Authors: Ana C. Murillo, Iljung S. Kwak, Lubomir Bourdev, David Kriegman, Serge
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