

**5th International Symposium on Visual Computing
(ISVC09)**

Nov 30 - Dec 2, 2009, Las Vegas, Nevada, USA



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Final Program

5th International Symposium on Visual Computing (ISVC09)

Nov 30th - Dec 2nd, 2009, Las Vegas, Nevada, USA

Symposium Overview

	Monday 30 th	Tuesday 1 st	Wednesday 2 nd
07:00 am – 08:30 am	<i>Breakfast (East Ballrooms)</i>		
08:30 am – 9:30 am	Keynote (Ballroom 4-5)		
9:40 am – 10:40 am	Parallel Sessions (Ballroom 2, 3, 4-5, Gold Room)		
10:40 am – 11:10 am	<i>Coffee Break</i>		
11:10 am – 12:10 am	Parallel Sessions (Ballroom 2, 3, 4-5, Gold Room)		
12:10 pm – 1:30 pm	<i>Lunch Break (on your own)</i>		
1:30 pm – 2:30 pm	Keynote (Ballroom 4-5)	Poster Session * (Ballroom 4-5)	Keynote (Ballroom 4-5)
2:40 pm – 3:40 pm	Parallel Sessions (Ballroom 2, 3, 4-5, Gold Room)		
3:40 pm – 4:10 pm	<i>Coffee Break</i>		
4:10 pm – 6:00 pm	Parallel Sessions (Ballroom 2, 3, 4-5, Gold Room)		

Registration Desk hours: Sunday Nov 29th: 5:30pm -9:30pm

Monday, Nov 30th – Wednesday, Dec 2nd: 7:30am – 5:30pm

Banquet Dinner: Tuesday, Dec 1st: 7:00pm – 9:30pm (East Ballrooms)

Semantic Robot Vision Challenge: Tuesday, December 1st (Ballroom 1)

*The poster session runs from 1:30pm to 3:30pm.

Monday, November 30th

7:00-8:30	<i>Breakfast (East Ballrooms)</i>	
8:30-9:30	<i>Keynote: Pietro Perona, California Institute of Technology, USA (Ballroom 4-5)</i>	
Parallel Sessions		
9:40-12:10	ST: Object Recognition Chair: Andrea Salgian/Fabien Scalzo (Ballroom 4-5)	Computer Graphics I Chair: Jiří Žára (Ballroom 2)
	9:40	Which Shape Representation is the best for Real-Time Hand Interface System? <i>Serkan Genç and Volkan Atalay</i>
	10:00	Multi-target and multi-camera object detection with Monte-Carlo sampling <i>Giorgio Panin, Sebastian Klose and Alois Knoll</i>
	10:20	Spatial Configuration of Local Shape Features for Discriminative Object Detection <i>Lech Szumilas and Horst Wildenauer</i>
		Relighting Forest Ecosystems <i>Jay E. Steele and Robert Geist</i>
		Cartoon Animation Style Rendering of Water <i>Mi You, Jinho Park, Byungkuk Choi and Junyong Noh</i>
		Deformable Proximity Queries and their Application in Mobile Manipulation Planning <i>M. Gissler, C. Dornhege, B. Nebel and M. Teschner</i>
10:40-11:10	<i>Coffee Break</i>	
	11:10	A Bag of Features Approach for 3D Shape Retrieval <i>Janis Fehr, Alexander Streicher and Hans Burkhardt</i>
	11:30	Efficient Object Pixel-Level Categorization using Bag of Features <i>David Aldavert, Arnau Ramisa, Ricardo Toledo and Ramon Lopez de Mantaras</i>
	11:50	Adaptive Partitioning of Vertex Shader for Low Power High Performance Geometry Engine <i>B.V.N. Silpa, Kumar S.S Vemuri and Preeti Ranjan Panda</i>
		Speech-Driven Facial Animation Using A Shared Gaussian Process Latent Variable Model <i>Salil Deena and Aphrodite Galata</i>
		Extracting Principal Curvature Ridges from B-Spline Surfaces with Deficient Smoothness <i>Suraj Musuvathy and Elaine Cohen</i>
9:40-12:10	Visualization I Chair: Daniel Coming (Ballroom 3)	ST: Visual Computing for Robotics Chair: Frederic Chausse (Gold Room)
	9:40	Visualized Index-Based Search for Digital Libraries <i>Jon Scott, Beomjin Kim and Sanyogita Chhabada</i>
	10:00	Generation of an Importance Map for Visualized Images <i>Akira Egawa and Susumu Shirayama</i>
	10:20	Drawing Motion Without Understanding It <i>Vincenzo Caglioti, Alessandro Giusti, Andrea Riva, and Marco Uberti</i>
		Real-time Feature Acquisition and Integration for Vision-based Mobile Robots <i>Thomas Hubner and Renato Pajarola</i>
		Matching planar features for robot localization <i>Baptiste Charmette, Eric Royer, Frederic Chausse</i>
		Fast and Accurate Structure and Motion Estimation <i>Johan Hedborg, Per-Erik Forssen, and Michael Felsberg</i>
10:40-11:10	<i>Coffee Break</i>	
	11:10	Image Compression Based on Visual Saliency at Individual Scales <i>Stella X. Yu and Dimitri A. Lisin</i>
	11:30	Fast Occlusion Sweeping <i>Mayank Singh, Cem Yuksel, and Donald House</i>
	11:50	An Empirical Study of Categorical Dataset Visualization using a Simulated Bee Colony Clustering Algorithm <i>James D. McCaffrey</i>
		Optical flow based detection in mixed human robot environments <i>Dario Figueira, Plinio Moreno, Alexandre Bernardino, Jose Gaspar, and Jose Santos-Victor</i>
		Using a virtual world to design a simulation platform for vision and robotic systems <i>Om K. Gupta and Ray A. Jarvis</i>
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-2:30	Keynote: Rakesh (Teddy) Kumar , Sarnoff Corporation, USA (Ballroom 4-5)	
	Parallel Sessions	
2:40-5:30	Feature Extraction and Matching Chair: Alireza Tavakkoli (Ballroom 4-5)	Medical Imaging Chairs: Tim McGraw (Ballroom 2)
	2:40	Accurate and Efficient Computation of Gabor Features in Real-Time Applications <i>Gholamreza Amayeh, Alireza Tavakkoli and George Bebis</i>
	3:00	Region Graph Spectra as Geometric Global Image Features <i>Qirong Ho, Weimiao Yu, and Hwee Kuan Lee</i>
	3:20	Robust Harris-Laplace Detector by Scale Multiplication <i>Fanhuai Shi, Xixia Huang, Ye Duan</i>
		Automated Segmentation of Brain Tumors in MRI Using Force Data Clustering Algorithm <i>Masoumeh Kalantari Khandania, Ruzena Bajcsy, Yaser P. Fallah</i>
		Top-Down Segmentation of Histological Images using a Digital Deformable Model <i>F. De Vieilleville, J.-O. Lachaud, P. Herlin, O. Lezoray, B. Plancaoulaine</i>
		Closing Curves with Riemannian Dilation: Application to Segmentation in Automated Cervical Cancer Screening <i>Patrik Malm and Anders Brun</i>
3:40-4:10	<i>Coffee Break</i>	
	4:10	Spatial-temporal junction extraction and semantic interpretation <i>Kasper Broegaard Simonsen, Mads Thorsted Nielsen, Florian Pilz, Norbert Kruger and Nicolas Pugeault</i>
	4:30	Cross-Correlation and Rotation Estimation of Local 3D Vector Field Patches <i>Janis Fehr, Marco Reisert and Hans Burkhardt</i>
	4:50	Scene categorization by introducing contextual information to the visual words <i>Jianzhao Qin and Nelson H.C. Yung</i>
	5:10	Edge-Preserving Laplacian Pyramid <i>Stella X. Yu</i>
		Lung Nodule Modeling – A Data-Driven Approach <i>Amal Farag, James Graham, Aly Farag and Robert Falk</i>
		Concurrent CT Reconstruction and Visual Analysis using Hybrid Multi-Resolution Raycasting in a Cluster Environment <i>Steffen Frey, Christoph Müller, Magnus Strengert and Thomas Ertl</i>
		Randomized Tree Ensembles for Object Detection in Computational Pathology <i>Thomas J. Fuchs, Johannes Haybaeck, Peter J. Wild, Mathias Heikenwalder, Holger Moch, Adriano Aguzzi, and Joachim M. Buhmann</i>
		Human Understandable Features for Segmentation of Solid Texture <i>Ludovic Paulhac, Pascal Makris, Jean-Marc Gregoire, and Jean-Yves Rame</i>
2:40-5:30	Motion Chair: Eraldo Ribeiro (Ballroom 3)	Virtual Reality I Chair: Christian Odom (Gold Room)
	2:40	Exploiting Mutual Camera Visibility in Multi-Camera Motion Estimation <i>Christian Kurz, Thorsten Thormahlen, Bodo Rosenhahn, and Hans-Peter Seidel</i>
	3:00	Optical Flow Computation from An Asynchronised Multiresolution Image Sequence <i>Yusuke Kameda, Naoya Ohnishi, Atsushi Imiya and Tomoya Sakai</i>
	3:20	Conditions for Segmentation of Motion with Affine Fundamental Matrix <i>Shafriza Nisha Basah, Reza Hoseinnezhad, and Alireza Bab-Hadiashar</i>
		RiverLand: An Efficient Procedural Modeling System for Creating Realistic-Looking Terrains <i>Soon Tee Teoh</i>
		Real-Time 3D Reconstruction for Occlusion-aware Interactions in Mixed Reality <i>Alexander Ladikos and Nassir Navab</i>
		Augmenting Exercise Systems with Virtual Exercise Environment <i>Wei Xu, Jaeheon Jeong and Jane Mulligan</i>
3:40-4:10	<i>Coffee Break</i>	
	4:10	Motion-Based View-Invariant Articulated Motion Detection and Pose Estimation Using Sparse Point Features <i>Shrinivas J. Pundlik and Stanley T. Birchfield</i>
	4:30	Robust Estimation of Camera Motion using Optical Flow Models <i>Jurandy Almeida, Rodrigo Minetto, Tiago A. Almeida Ricardo da S. Torres, and Neucimar J. Leite</i>
	4:50	Maximum Likelihood Estimation Sample Consensus with Validation of Individual Correspondences <i>Liang Zhang, Houman Rastgar, Demin Wang, André Vincent</i>
	5:10	Efficient Random Sampling for Nonrigid Feature Matching <i>Lixin Fan and Timo Pylvanainen</i>
		Codebook-based Background Subtraction to Generate Photorealistic Avatars in a Walkthrough Simulator <i>Anjin Park, Keechul Jung and Takeshi Kurata</i>
		JanusVF: Adaptive Fiducial Selection <i>Malcolm Hutson and Dirk Reiners</i>
		Natural Pose Generation from a Reduced Dimension Motion Capture Data Space <i>Reza Ferrydiansyah and Charles B. Owen</i>

Tuesday, December 1st

7:00-8:30	<i>Breakfast (East Ballrooms)</i>	
8:30-9:30	<i>Keynote: <u>Larry Davis</u>, University of Maryland, USA (Ballroom 4-5)</i>	
Parallel Sessions		
9:40-12:10	ST: Computational Bioimaging Chairs: João Manuel R. S. Tavares (Ballroom 4-5)	Computer Graphics II Chair: Dirk Reiners (Ballroom 2)
9:40	Segmentation of Neural Stem/Progenitor Cells Nuclei within 3-D Neurospheres <i>Weimiao Yu, Hwee Kuan Lee, Srivats Hariharan, Shvetha Sankaran, Pascal Vallotton and Sohail Ahmed</i>	High-Quality Rendering of Varying Isosurfaces with Cubic Trivariate C ¹ -continuous Splines <i>Thomas Kalbe, Thomas Koch, and Michael Goesele</i>
10:00	Deconvolving active contours for fluorescence microscopy images <i>Jo A. Helmuth and Ivo F. Sbalzarini</i>	Visualizing Arcs of Implicit Algebraic Curves, Exactly and Fast <i>Pavel Emeliyanenko, Eric Berberich, Michael Sagraloff</i>
10:20	Image Registration Guided by Particle Filter <i>Edgar R. Arce-Santana, Daniel U. Campos-Delgado, and Alfonso Alba</i>	Fast Cube Cutting for Interactive Volume Visualization <i>Travis McPhail, Powei Feng, and Joe Warren</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Curve Enhancement Using Orientation Fields <i>Kristian Sandberg</i>	A Statistical Model for Daylight Spectra <i>Martyn Williams and William A.P. Smith</i>
11:30	Lighting-Aware Segmentation of Microscopy Images for In Vitro Fertilization <i>Alessandro Giusti, Giorgio Corani, Luca Maria Gambardella, Cristina Magli, and Luca Gianaroli</i>	Reducing Artifacts between Adjacent Bricks in Multiresolution Volume Rendering <i>Rhadamés Carmona, Gabriel Rodríguez and Bernd Fröhlich</i>
11:50	Fast 3D Reconstruction of the Spine Using User-Defined Splines and a Statistical Articulated Model <i>Daniel C. Moura, Jonathan Boisvert, Jorge G. Barbosa, and Joao Manuel R. S. Tavares</i>	Height and Tilt Geometric Texture <i>Vedrana Andersen, Mathieu Desbrun, J. Andreas Bærentzen, and Henrik Aanæs</i>
9:40-12:10	ST: 3D Mapping, Modeling and Surface Reconstruction Chair: Ara Nefian (Ballroom 3)	Face Processing Chair: Lijun Yi (Gold Room)
9:40	Using coplanar circles to perform calibration-free planar scene analysis under a perspective view <i>Yisong Chen</i>	Natural Facial Expression Recognition Using Dynamic and Static Schemes <i>Bogdan Raducanu and Fadi Dornaika</i>
10:00	Parallel Poisson Surface Reconstruction <i>Matthew Bolitho, Michael Kazhdan, Randal Burns, and Hugues Hoppe</i>	Facial Shape Recovery From a Single Image With an Arbitrary Directional Light Using Linearly Independent Representation <i>Minsik Lee and Chong-Ho Choi</i>
10:20	3D Object Mapping by Integrating Stereo SLAM and Object Segmentation Using Edge Points <i>Masahiro Tomono</i>	Locating Facial Features and Pose Estimation Using a 3D Shape Model <i>Angela Counce, David Cristinacce, Chris Taylor, Tim Cootes</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Photometric Recovery of Ortho-images Derived from Apollo 15 Metric Camera Imagery <i>Taemin Kim, Ara V. Nefian, and Michael J. Broxton</i>	A Stochastic Method for Face Image Super-Resolution <i>Jun Zheng and Olac Fuentes</i>
11:30	3D Lunar Terrain Reconstruction from Apollo Images <i>Michael J. Broxton, Ara V. Nefian, Zachary Moratto, Taemin Kim, Michael Lundy, and Aleksandr V. Segal</i>	A Framework for Long Distance Face Recognition using Dense- and Sparse-Stereo Reconstruction <i>Ham Rara, Shireen Elhabian, Asem Ali, Travis Gault, Mike Miller, Thomas Starr, and Aly Farag</i>
11:50	Factorization of correspondence and camera error for unconstrained dense correspondence applications <i>Daniel Knoblauch, Mauricio Hess-Flores, Mark Duchaineau, and Falko Kuester</i>	
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-3:30	Poster Session (Ballroom 4-5)	
	Parallel Sessions	
3:30-6:00	Reconstruction I Chair: Antonis Argyros (Ballroom 4-5)	ST: Deformable Models: Theory and Applications Chair: Gavriil Tsechpenakis (Ballroom 2)
	3:30 Multi-View Reconstruction of Unknown Objects within a Known Environment <i>Stefan Kuhn and Dominik Henrich</i>	A New Algorithm for Inverse Consistent Image Registration <i>Xiaojing Ye and Yunmei Chen</i>
	3:50 Accurate Real-Time Disparity Estimation with Variational Methods <i>Sergey Kosov, Thorsten Thormahlen, Hans-Peter Seidel</i>	A 3D Active Surface Model for the accurate Segmentation of Drosophila Schneider Cell Nuclei and Nucleoli <i>Margret Keuper, Jan Padeken, Patrick Heun, Hans Burkhardt, Olaf Ronneberger</i>
4:10-4:40	<i>Coffee Break</i>	
	4:40 Real-Time Parallel Implementation of SSD Stereo Vision Algorithm on CSX SIMD Architecture <i>Fouzhan Hosseini, Amir Fijany, Saeed Safari, Ryad Chellali, and Jean-Guy Fontaine</i>	Weight, Sex, and Facial Expressions: On the Manipulation of Attributes in Generative 3D Face Models <i>Brian Amberg, Pascal Paysan, and Thomas Vetter</i>
	5:00 Revisiting the PnP Problem with a GPS <i>Timo Pylvanainen, Lixin Fan, and Vincent Lepetit</i>	Contrast Constrained Local Binary Fitting for Image Segmentation <i>Xiaojing Bai, Chunming Li, Quansen Sun, Deshen Xia</i>
	5:20 On using Projective Relations for Calibration and Estimation in a Structured-Light Scanner <i>Daljit Singh Dhillon and Venu Madhav Govindu</i>	Modeling and Rendering Physically-Based Wood Combustion <i>Roderick M. Riensche and Robert R. Lewis</i>
	5:40 Depth from Encoded Sliding Projections <i>Chris Hermans, Yannick Francken, Tom Cuypers, and Philippe Bekaert</i>	A Unifying View of Contour Length Bias Correction <i>Christina Pavlopoulou and Stella X. Yu</i>
	6:00	Discussion Panel
3:30-6:00	ST: Visualization Enhanced Data Analysis for Health Applications Chair: Ghassan Hamarneh (Ballroom 3)	Virtual Reality II Chair: Andre Hinkenjann (Gold Room)
	3:30 A Novel Method for Enhanced Needle Localization Using Ultrasound-Guidance <i>Bin Dong, Eric Savitsky, and Stanley Osher</i>	DRONE: A Flexible Framework for Distributed Rendering and Display <i>Michael Repplinger, Alexander Loffler, Dmitri Rubinstein, and Philipp Slusallek</i>
	3:50 Woolz IIP: A Tiled On-the-fly Sectioning Server for 3D Volumetric Atlases <i>Zsolt L. Husz, Thomas P. Perry, Bill Hill, Richard A. Baldock</i>	Efficient Strategies for Acceleration Structure Updates in Interactive Ray Tracing Applications on the Cell Processor <i>Martin Weier, Thorsten Roth, Andre Hinkenjann</i>
4:10-4:40	<i>Coffee Break</i>	
	4:40 New scalar measures for diffusion-weighted MRI visualization <i>Tim McGraw, Takamitsu Kawai, Inas Yassine, Lierong Zhu</i>	Interactive Assembly Guide using Augmented Reality <i>M. Andersen, R. Andersen, C. Larsen, T.B. Moeslund, and O. Madsen</i>
	5:00 Automatic Data-Driven Parameterization for Phase-Based Bone Localization in US using Log-Gabor Filters <i>Ilker Hacihaliloglu, Rafeef Abugharbieh, Antony Hodgson, Robert Rohling</i>	V-Volcano: Addressing Students' Misconceptions in Earth Sciences Learning Through Virtual Reality Simulations <i>Hollie Boudreaux, Paul Bible, Carolina Cruz-Neira, Thomas Parham, Cinzia Cervato, William Gallus, and Pete Stelling</i>
	5:20 Wavelet-Based Representation of Biological Shapes <i>Bin Dong, Yu Mao, Ivo D. Dinov, Zhuowen Tu, Yonggang Shi, Yalin Wang, and Arthur W. Toga</i>	A Framework for Object-Oriented Shader Design <i>Roland Kuck and Gerold Wesche</i>
	5:40 Detection of Unusual Objects and Temporal Patterns in EEG Video Recordings <i>Kostadin Koroutchev, Elka Korutcheva, Kamen Kanev, Apolinar Rodriguez Albari, Jose Luis Muniz Gutierrez, Fernando Farinaz Balsiero</i>	VR Spray Painting for Training and Design <i>Chrisitan NS Odom, Nikhil J. Shetty, Dirk Reiners</i>
7:00-9:30	<i>Banquet Dinner</i> (East Ballrooms) Keynote: Demetri Terzopoulos, University of California at Los Angeles, USA	

Wednesday, December 2nd

7:00-8:30	<i>Breakfast (East Ballrooms)</i>	
8:30-9:30	<i>Keynote: Tao Ju, Washington University, USA (Ballroom 4-5)</i>	
Parallel Sessions		
9:40-12:10	ST: Optimization for Vision, Graphics and Medical Imaging: Theory and Applications Chair: Mircea Nicolescu (Ballroom 4-5)	Detection and Tracking Chair: Yoshinori Kuno (Ballroom 2)
9:40	Stochastic Optimization for Rigid Point Set Registration <i>Chavdar Papazov and Darius Burschka</i>	Propagation of pixel hypotheses for multiple objects tracking <i>Haris Baltzakis and Antonis A. Argyros</i>
10:00	Multi-Label MRF Optimization via a Least Squares s-t Cut <i>Ghassan Hamarneh</i>	Visibility-based Observation Model for a 3D Tracking with Non-parametric 3D Particle Filters <i>Raul Mohedano and Narciso Garcia</i>
10:20	Combinatorial Preconditioners and Multilevel Solvers for Problems in Computer Vision and Image Processing <i>Ioannis Koutis, Gary L. Miller, and David Tolliver</i>	Efficient Hypothesis Generation through Sub-categorization for Multiple Object Detection <i>Dipankar Das, Yoshinori Kobayashi, and Yoshinori Kuno</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Optimal Weights for Convex Functionals in Medical Image Segmentation <i>Chris McIntosh and Ghassan Hamarneh</i>	Object Detection and Localization in Clutter Range Images using Edge Features <i>Dipankar Das, Yoshinori Kobayashi, and Yoshinori Kuno</i>
11:30	Adaptive Contextual Energy Parameterization for Automated Image Segmentation <i>Josna Rao, Ghassan Hamarneh, and Rafeef Abugharbieh</i>	Learning Higher-Order Markov Models for Object Tracking in Image Sequences <i>Michael Felsberg and Fredrik Larsson</i>
11:50	Approximated Curvature Penalty in Non-rigid Registration using Pairwise MRFs <i>Ben Glocker, Nikos Komodakis, Nikos Paragios, Nassir Navab</i>	Analysis of Numerical Methods for Level Set Based Image Segmentation <i>Björn Scheuermann and Bodo Rosenhahn</i>
9:40-12:10	Visualization II Chair: James McCaffrey (Ballroom 3)	Computer Graphics III Chair: Shuhua Lai (Gold Room)
9:40	Progressive Presentation of Large Hierarchies Using Treemaps <i>Rene Rosenbaum and Bernd Hamann</i>	Layered Volume Splatting <i>Philipp Schlegel and Renato Pajarola</i>
10:00	Reaction Centric Layout for Metabolic Networks <i>Muhieddine ElKaissi, Ming Jia, Dirk Reiners, Julie Dickerson, Eve Wurtele</i>	Real-Time Soft Shadows Using Temporal Coherence <i>Daniel Scherzer, Michael Schwarzler, Oliver Mattausch, and Michael Wimmer</i>
10:20	Diverging Color Maps for Scientific Visualization <i>Kenneth Moreland</i>	Real-Time Dynamic Wrinkles of Face for Animated Skinned Mesh <i>L. Dutreuve, A. Meyer and S. Bouakaz</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	GPU-based Ray Casting of Multiple Multi-Resolution Volume Datasets <i>Christopher Lux and Bernd Frohlich</i>	Protected Progressive Meshes <i>Michael Gschwandtner and Andreas Uhl</i>
11:30	Dynamic Chunking for Out-of-Core Volume Visualization Applications <i>Dan R. Lipsa, R. Daniel Bergeron, Ted M. Sparr, and Robert S. Laramée</i>	Bilateral Filtered Shadow Maps <i>Jinwook Kim and Soojae Kim</i>
11:50	Visualization of the Molecular Dynamics of Polymers and Carbon Nanotubes <i>Sidharth Thakur, Syamal Tallury, Melissa A. Pasquinnelli, and Theresa-Marie Rhyne</i>	LightShop: An Interactive Lighting System Incorporating the 2D Image Editing Paradigm <i>Younghui Kim, Junyong Noh</i>
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-2:30	<i>Keynote: <u>Nassir Navab</u>, Technical University of Munich, Germany (Ballroom 4-5)</i>		
Parallel Sessions			
2:40-5:30	Reconstruction II Chair: Vijayan Asari (Ballroom 4-5)		ST: Semantic Robot Vision Challenge Chairs: Daniel DeMenthon / Paul Rybski (Ballroom 2)
	2:40	Focused Volumetric Visual Hull with Color Extraction <i>Daniel Knoblauch and Falko Kuester</i>	<i>Workshop might start at an earlier time; please, check with SRVC organizers.</i>
	3:00	Graph cut based point-cloud segmentation for polygonal reconstruction <i>David Sedlacek and Jiri Zara</i>	<i>TBD</i>
	3:20	Dense Depth Maps from Low Resolution Time-of-Flight Depth and High Resolution Color Views <i>Bogumil Bartczak and Reinhard Koch</i>	<i>TBD</i>
3:40-4:10	<i>Coffee Break</i>		
	4:10	Residential Building Reconstruction Based on the Data Fusion of Sparse LiDAR Data and Satellite Imagery <i>Ye Yu, Bill P. Buckles, Xiaoping Liu</i>	<i>TBD</i>
	4:30	Adaptive Sample Consensus for Efficient Random Optimization <i>Lixin Fan and Timo Pylvanainen</i>	<i>TBD</i>
	4:50	Feature Matching under Region-based Constraints for Robust Epipolar Geometry Estimation <i>Wei Xu and Jane Mulligan</i>	<i>TBD</i>
	5:10		<i>TBD</i>
2:40-5:30	Video Analysis and Event Recognition Chair: George Bebis (Ballroom 3)		Applications Chair: Clark Olson (Ballroom 2) (Gold Room)
	2:40	Adaptive Tuboid Shapes for Action Recognition <i>Roman Filipovych and Eraldo Ribeiro</i>	Lossless Compression Using Joint Predictor for Astronomical Images <i>Bo-Zong Wu and Angela Chih-Wei Tang</i>
	3:00	Human Activity Recognition using the 4D Spatiotemporal Shape Context Descriptor <i>Natasha Kholgade and Andreas Savakis</i>	Metric rectification to estimate the aspect ratio of camera-captured document images <i>Junhee Park and Byung-Uk Lee</i>
	3:20	A Shape and Energy Based Approach to Vertical People Separation in Video Surveillance <i>Alessio M Brits and Jules R Tapamo</i>	Active Learning Image Spam Hunter <i>Yan Gao and Alok Choudhary</i>
3:40-4:10	<i>Coffee Break</i>		
	4:10	Level Set Gait Analysis for Synthesis and Reconstruction <i>Muayed S. Al-Huseiny, Sasan Mahmoodi, and Mark S. Nixon</i>	Skin Paths for Contextual Flagging Adult Videos <i>Julian Stottinger, Allan Hanbury, Christian Liensberger and Rehanullah Khan</i>
	4:30		Grouping and Summarizing Scene Images from Web Collections <i>Heng Yang, Qing Wang</i>
	4:50		Robust Registration of Aerial Image Sequences <i>Clark F. Olson, Adnan I. Ansar, and Curtis W. Padgett</i>
	5:10		Color Matching for Metallic Coatings <i>Jayant Silva and Kristin J. Dana</i>

Poster Session (Ballroom 4-5)

Tuesday, December 1st (1:30pm-3:30pm)

<p>Real-Time Hand Detection and Gesture Tracking with GMM and Model Adaptation <i>Gabriel Yoder and Lijun Yin</i></p>
<p>Design of searchable Commemorative Coins Image Library <i>Radoslav Fasuga, Petr Kaspar, Martin Surkovsky</i></p>
<p>Visual intention detection for wheelchair motion <i>T. Luhandjula, E. Monacelli, Y. Hamam, B.J. van Wyk, Q. Williams</i></p>
<p>An Evaluation of Affine Invariant-Based Classification for Image Matching <i>Daniel Fleck and Zoran Duric</i></p>
<p>Asbestos Detection Method with Frequency Analysis for Microscope Images <i>Hikaru Kumagai, Soichiro Morishita, Kuniaki Kawabata, Hajime Asama, and Taketoshi Mishima</i></p>
<p>Shadows Removal by Edges Matching <i>P. Spagnolo, P.L. Mazzeo, M. Leo, and T. D'Orazio</i></p>
<p>Online Video Textures Generation <i>Wentao Fan and Nizar Bouguila</i></p>
<p>Deformable 2D Shape Matching Based on Shape Contexts and Dynamic Programming <i>Iasonas Oikonomidis and Antonis A. Argyros</i></p>
<p>3D Model Reconstruction from Turntable Sequence with Multiple-view Triangulation <i>Jian Zhang, Fei Mai, Y.S. Hung and G. Chesi</i></p>
<p>Recognition of Semantic Basketball Events Based on Optical Flow Patterns <i>Li Li, Ying Chen, Weiming Hu, Wanqing Li, and Xiaoqin Zhang</i></p>
<p>Action Recognition Based on Non-parametric Probability Density Function Estimation <i>Yuta Mimura, Kazuhiro Hotta, and Haruhisa Takahashi</i></p>
<p>Asymmetry-based Quality Assessment of Face Images <i>Guangpeng Zhang and Yunhong Wang</i></p>
<p>Scale analysis of several filter banks for color texture classification <i>Olga Rajadell, Pedro Garcya-Sevilla and Filiberto Pla</i></p>
<p>A Novel 3D Segmentation of Vertebral Bones from Volumetric CT Images Using Graph Cuts <i>Melih S. Aslan, Asem Ali, Ham Rara, Ben Arnold, Aly A. Farag, Rachid Fahmi, and Ping Xiang</i></p>
<p>Robust 3D Marker Localization using Multi-spectrum Sequences <i>Pengcheng Li, Jun Cheng, Ruifeng Yuan, and Wenchuang Zhao</i></p>
<p>Measurement of Pedestrian Groups Using Subtraction Stereo <i>Kenji Terabayashi, Yuki Hashimoto, and Kazunori Umeda</i></p>
<p>Vision-Based Obstacle Avoidance Using SIFT Features <i>Aaron Chavez, David Gustafson</i></p>
<p>Segmentation of Chinese Postal Envelope Images for Address Block Location <i>Xinghui Dong, Junyu Dong, and Shengke Wang</i></p>
<p>Recognizability of Polyhexes by Tiling and Wang Systems <i>H. Geetha, D.G. Thomas, T. Kalyani, and T. Robinson</i></p>
<p>Unsupervised video analysis for counting of wood in river during floods <i>Imtiaz Ali and Laure Tougne</i></p>

Poster Session (cont'd)

Tuesday, December 1st (1:30pm – 3:30pm)

<p>Robust Facial Feature Detection and Tracking for Head Pose Estimation in a Novel Multimodal Interface for Social Skills Learning <i>Jingying Chen Oliver Lemon</i></p>
<p>High Performance Implementation of License Plate Recognition in Image Sequences <i>Andreas Zweng and Martin Kampel</i></p>
<p>TOCSAC: TOpology Constraint SAmples Consensus for fast and reliable feature correspondence <i>Zhoucan He, Qing Wang, Heng Yang</i></p>
<p>Multimedia Mining on Manycore Architectures: The Case for GPUs <i>Mamadou Diao and Jongman Kim</i></p>
<p>Human Activity Recognition based on R Transform and Fourier Mellin Transform <i>Pengfei Zhu, Weiming Hu, Li Li, and Qingdi Wei</i></p>
<p>Reconstruction of Facial Shape from Freehand Multi-viewpoint Snapshots <i>Seiji Suzuki, Hideo Saito, and Masaaki Mochimaru</i></p>
<p>Multiple-view Video Coding Using Depth Map in Projective Space <i>Nina Yorozu, Yuko Uematsu, and Hideo Saito</i></p>
<p>Using Subspace Multiple Linear Regression for 3D Face Shape Prediction from a Single Image <i>Mario Castelan, Gustavo A. Puerto-Souza, and Johan Van Horebeek</i></p>
<p>PedVed : Pseudo Euclidian Distances for Video Events Detection <i>Md. Haidar Sharif, Chabane Djeraba</i></p>
<p>Two Algorithms for Measuring Human Breathing Rate Automatically <i>Tomas Lampo, Javier Sierra and Carolina Chang</i></p>
<p>Biometric Recognition: When Is Evidence Fusion Advantageous? <i>Hugo Proenca</i></p>
<p>Interactive Image inpainting Using DCT Based Exemplar Matching <i>Tsz-Ho Kwok, Charlie C.L. Wang</i></p>
<p>Noise-Residue Filtering Based on Unsupervised Clustering for Phase Unwrapping <i>Jun Jiang, Jun Cheng, Xinglin Chen</i></p>
<p>Adaptive Digital Makeup <i>Abhinav Dhall, Gaurav Sharma, Rajen Bhatt, and Ghulam Mohiuddin Khan</i></p>
<p>An Instability Problem of Region Growing Segmentation Algorithms and its Set Median Solution <i>Lucas Franek and Xiaoyi Jiang</i></p>
<p>Distance Learning Based on Convex Clustering <i>Xingwei Yang, Longin Jan Latecki, and Ari Gross</i></p>
<p>Group Action Recognition Using Space-Time Interest Points <i>Qingdi Wei, Xiaoqin Zhang, Yu Kong, Weiming Hu, Haibin Ling</i></p>
<p>Adaptive Deblurring for Camera-based Document Image Processing <i>Yibin Tian, Wei Ming</i></p>
<p>A Probabilistic Model of Visual Attention and Perceptual Organization for Constructive Object Recognition <i>Masayasu Atsumi</i></p>
<p>Gloss and Normal Map Acquisition of Mesostructures Using Gray Codes <i>Yannick Francken, Tom Cuypers, Tom Mertens, and Philippe Bekaert</i></p>

Poster Session (cont'd)

Tuesday, December 1st (1:30pm – 3:30pm)

<p>Video Super-resolution by Adaptive Kernel Regression <i>Mohammad Moinul Islam, Vijayan K. Asari, Mohammed Nazrul Islam and Mohammad A. Karim</i></p>
<p>Unification of Multichannel Motion Feature using Boolean Polynomial <i>Naoya Ohnishi, Atsushi Imiya and Tomoya Sakai</i></p>
<p>Rooftop Detection and 3D Building Modeling from Aerial Images <i>Fanhui Shi, Yongjian Xi, Xiaoling Li, Ye Duan</i></p>
<p>An image registration approach for accurate satellite attitude estimation <i>Alessandro Bevilacqua, Ludovico Carozza, and Alessandro Gherardi</i></p>
<p>A novel-vision based approach for autonomous space navigation systems <i>Alessandro Bevilacqua, Alessandro Gherardi, and Ludovico Carozza</i></p>
<p>An adaptive cutaway with volume context Preservation <i>S. Grau and A. Puig</i></p>
<p>A 3D Visualisation to Enhance Cognition in Software Product Line Engineering <i>Ciarán Cawley, Goetz Botterweck, Patrick Healy, Saad Bin Abid, Steffen Thiel</i></p>
<p>A Visual Data Exploration Framework for Complex Problem Solving Based on Extended Cognitive Fit Theory <i>Ying Zhu, Xiaoyuan Suo, and G. Scott Owen</i></p>
<p>Energetic Path Finding Across Massive Terrain Data <i>Andrew Tsui and Zoe Wood</i></p>
<p>The Impact of Image Choices on the Usability and Security of Click Based Graphical Passwords <i>Ying Zhu, Xiaoyuan Suo, and G. Scott Owen</i></p>
<p>Visual Computing for Scattered Electromagnetic Fields <i>Shyh-Kuang Ueng and Fu-Sheng Yang</i></p>
<p>Visualization of Gene Regulatory Networks <i>Muhieddine ElKaissi, Ming Jia, Dirk Reiners, Julie Dickerson and Eve Wurtele</i></p>
<p>Autonomous Lighting Agents in Photon Mapping <i>A. Herubel, V. Biri and S. Deverly</i></p>
<p>Data Vases: 2D and 3D Plots for Visualizing Multiple Time Series <i>Sidharth Thakur and Theresa-Marie Rhyne</i></p>
<p>An Approach Based on Morse Theory for Mesh Segmentation <i>Jun Wang and Zeyun Yu</i></p>
<p>A Lattice Boltzmann Model for Rotationally Invariant Dithering <i>Kai Hagenburg, Michael Breuß, Oliver Vogel, Joachim Weickert, Martin Welk</i></p>
<p>Parallel 3D Image Segmentation of Large Data Sets on a GPU Cluster <i>Aaron Hagan and Ye Zhao</i></p>
<p>A Practical Guide to Large Tiled Displays <i>Paul A. Navratil, Brandt Westing, Gregory P. Johnson, Ashwini Athalye, Jose Carreno, and Freddy Rojas</i></p>

Poster Session (cont'd)

Tuesday, December 1st (1:30pm – 3:30pm)

<p>Fast Spherical Mapping for Genus-0 Meshes <i>Shuhua Lai, Fuhua (Frank) Cheng and Fengtao Fan</i></p>
<p>Rendering Virtual Objects with High Dynamic Range Lighting extracted automatically from unordered Photo Collections <i>Konrad Kolzer, Frank Nagl, Bastian Birnbach and Paul Grimm</i></p>
<p>Effective Adaptation to Experience of Different-sized Hand <i>Kenji Terabayashi, Natsuki Miyata, Jun Ota, and Kazunori Umeda</i></p>
<p>Image Processing Methods Applied in Mapping of Lubrication Parameters <i>Radek Poliscuk</i></p>
<p>An Active Contour Approach for a Mumford-Shah model in X-Ray Tomography <i>Elena Hoetzl and Wolfgang Ring</i></p>
<p>An Integral Active Contour Model for Convex Hull and Boundary Extraction <i>Nikolay Metodiev Sirakov, Karthik Ushkala</i></p>
<p>Comparison of segmentation algorithms for the zebra fish heart in fluorescent microscopy images <i>Petra Kramer, Fernando Boto, Diana Wald, Fabien Bessy, Celine Paloc, Carles Callol, Ainhoa Letamendia, Izaskun Ibarbia, Olaia Holgado and Juan M. Verto</i></p>
<p>A Quality Pre-Processor for Biological Cell Images <i>Adele P. Peskin, Karen Kafadar, and Alden Dima</i></p>
<p>Fast Reconstruction Method for Diffraction Imaging <i>Eliyahu Osherovich, Michael Zibulevsky, and Irad Yavneh</i></p>
<p>Evaluation Of Cardiac Ultrasound Data by Bayesian Probability Maps <i>Mattias Hansson, Sami Brandt, Petri Gudmundsson, and Finn Lindgren</i></p>
<p>Animated Classic Mosaics from Video <i>Yu Liu and Olga Veksler</i></p>
<p>Comparison of optimisation algorithms for deformable template matching <i>Vasileios Zografos</i></p>
<p>Two Step Variational Method for Subpixel Optical Flow Computation <i>Yoshihiko Michizuki, Yusuke Kameda, Atsushi Imiya, Tomoya Sakai, Takashi Imaizumi</i></p>
<p>A Variational Approach to Semiautomatic Generation of Digital Terrain Models <i>Markus Unger, Thomas Pock, Markus Grabner, Andreas Klaus, and Horst Bischof</i></p>
<p>Real-time articulated hand detection and pose estimation <i>Giorgio Panin, Sebastian Klose, Alois Knoll</i></p>
<p>Background subtraction in video using recursive mixture models, spatio-temporal filtering and shadow removal <i>ZeZhi Chen, Nick Pears, Michael Freeman and Jim Austin</i></p>
<p>A Generalization of Moment Invariants on 2D Vector Fields to Tensor Fields of Arbitrary Order and Dimension <i>Max Langbein, Hans Hagen</i></p>
<p>A Real-Time Road Sign Detection using Bilateral Chinese Transform <i>Rachid Belaroussi and Jean-Philippe Tarel</i></p>
<p>Probabilistic Facial Feature Extraction Using Joint Distribution of Location and Texture Information <i>Mustafa Berkay Yilmaz, Hakan Erdogan, Mustafa Unel</i></p>
<p>Common motion map based on codebooks <i>Ionel Pop, Scuturici Mihaela, Serge Miguet</i></p>

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(Area 3) Virtual Reality

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 Klosowski James, IBM T.J. Watson Research Center, USA
 Kozintsev, Igor, Intel, USA
 Kühlen Torsten, RWTH Aachen University, Germany
 Liere Robert van, CWI, The Netherlands

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Luo Gang, Harvard Medical School, USA
Majumder Aditi, University of California, Irvine, USA
Malzbender Tom, Hewlett Packard Labs, USA
Mantler Stephan, Technical University of Vienna, Austria
Meyer Joerg, University of California, Irvine, USA
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Paelke Volker, Leibniz Universität Hannover, Germany
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Special Tracks

ST1: 3D Mapping, Modeling and Surface Reconstruction

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