

**4th International Symposium on Visual Computing
(ISVC08)**

December 1-3, 2008, Las Vegas, Nevada, USA



Contents

SYMPOSIUM OVERVIEW	2
MONDAY, DECEMBER 1 st	3
TUESDAY, DECEMBER 2 nd	5
WEDNESDAY, DECEMBER 3 rd	7
POSTER SESSION	9
Steering Committee/Area Chairs	13
Keynote Speakers	14
International Program Committee	14
Special Tracks	20
SPONSORS	24





Final Program

4th International Symposium on Visual Computing (ISVC08)

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Symposium Overview

	Monday 1 st	Tuesday 2 nd	Wednesday 3 rd
07:00 am – 08:30 am	<i>Breakfast (Ballroom 2-3)</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 (4:10pm-4:40pm on Dec 2nd)</i>		
4:10 pm – 5:30 pm	Parallel Sessions (Ballroom 2, 3, 4-5, Gold Room) (4:40pm – 6pm on Dec 2 nd)		

Registration Desk hours: Sunday Nov 30th: 5pm -9:30pm
Monday, Dec 1st – Wednesday, Dec 3rd: 7:30am – 5:30pm

Banquet Dinner: Tuesday, Dec 2nd: 7:00pm – 10:00pm (Ballroom 4-5)

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

Monday, December 1st

7:00-8:30	<i>Breakfast (Ballroom 2-3)</i>	
8:30-9:30	<i>Keynote: <u>Ioannis Pavlidis</u>, University of Houston, 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	Detection of a Large Number of Overlapping Ellipses Immersed in Noise <i>Manuel Fernandes</i>	Cumulus Cloud Synthesis with Similarity Solution and Particle/Voxel Modeling <i>Bei Wang, Jingliang Peng, and C.-C. Jay Kuo</i>
10:00	Recognizing ancient coins based on local features <i>Martin Kampel and Maia Zaharieva</i>	An Efficient Wavelet-Based Framework for Articulated Human Motion Compression <i>Chao-Hua Lee and Joan Lasenby</i>
10:20	Learning Pairwise Dissimilarity Profiles for Appearance Recognition in Visual Surveillance <i>Zhe Lin and Larry S. Davis</i>	On Smooth Bicubic Surfaces from Quad Meshes <i>Jianhua Fan and Jorg Peters</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Edge-based Template Matching and Tracking for Respectively Distorted Planar Objects <i>Andreas Hofhauser, Carsten Steger and Nassir Navab</i>	Simple Steps for Simply Stepping <i>Chun-Chih Wu, Jose Medina and Victor B. Zordan</i>
11:30	Enhancing Boundary Primitives using a Multiscale Quadtree Segmentation <i>Robert Bergevin and Vincent Bergeron</i>	Fairing of Discrete Surfaces with Boundary that Preserves Size and Qualitative Shape <i>Jana Kostliva, Radim Sara and Martina Matyskova</i>
11:50	3D Object Modeling and Segmentation Based on Edge-Point Matching with Local Descriptors <i>Masahiro Tomono</i>	Fast Decimation Of Polygonal Models <i>Muhammad Hussain</i>
9:40-12:10	Visualization I Chair: Laura Monroe (Ballroom 3)	ST: Real-time Vision Algorithm Implementation and Application Chair: D. J. Lee (Gold Room)
9:40	Visualizing Argument Structure <i>Peter Sbarski, Tim van Gelder, Kim Marriott, Daniel Prager, and Andy Bulka</i>	Vision-based localization for mobile robots using a set of known views <i>Pablo Frank Bolton, Montserrat Alvarado, Wendy Aguilar and Yann Frauel</i>
10:00	Visualization of Industrial Structures with Implicit GPU Primitives <i>Rodrigo Toledo and Bruno Levy</i>	On the advantages of asynchronous pixel reading and processing for high-speed motion estimation <i>Fernando Pardo and Jose A. Boluda and Francisco Vegara and Pedro Zuccarello</i>
10:20	Cartesian vs. Radial -- A Comparative Evaluation of Two Visualization Tools <i>Michael Burch, Felix Bott, Fabian Beck and Stephan Diehl</i>	An Optimized Software-based Implementation of a Census-based Stereo Matching Algorithm <i>Christian Zinner, Martin Humenberger, Kristian Ambrosch and Wilfried Kubinger</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	VoxelBars: An Informative Interface for Volume Visualization <i>Wai-Ho Mak, Ming-Yuen Chan, Yingcai Wu, Ka-Kei Chung and Huamin Qu</i>	Mutual Information based Semi-Global Stereo Matching on the GPU <i>Ines Ernst and Heiko Hirschmuller</i>
11:30	Wind Field Retrieval and Display for Doppler Radar Data <i>Shyh-Kuang Ueng and Yu-Chong Chiang</i>	Accurate Optical Flow Sensor for Obstacle Avoidance <i>Zhaoyi Wei, Dah-Jye Lee, Brent E. Nelson and Kirt D. Lillywhite</i>
11:50	Dual Marching Tetrahedra: Contouring in the Tetrahedral Environment <i>Gregory M. Nielson</i>	A Novel 2D Marker Design and Application in Object Tracking and Event Detection <i>Xu Liu, David Doermann, Huiping Li, K. C. Lee, Hasan Ozdemir and Lipin Liu</i>
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-2:30	Keynote: Gerard Medioni , University of Southern California, USA (Ballroom 4-5)	
Parallel Sessions		
2:40-5:30	Segmentation Chair: Yoshniori Kuno (Ballroom 4-5)	Shape/Recognition I Chairs: Frederic Chausse (Ballroom 2)
2:40	Automatic Lung Segmentation of Volumetric Low-Dose CT Scans Using Graph Cuts <i>Asem M. Ali and Aly A. Farag</i>	A Fast and Effective Dichotomy Based Hash Algorithm for Image Matching <i>Zhoucan He and Qing Wang</i>
3:00	A continuous labeling for multiphase graph cut image partitioning <i>Mohamed Ben Salah, Amar Mitiche and Ismail Ben Ayed</i>	Evaluation of Gradient Vector Flow for Interest Point Detection <i>Julian Stottinger, Rene Donner, Lech Szumilas and Allan Hanbury</i>
3:20	A Graph-based Method for Image Segmentation <i>Thang V. Le, Casimir A. Kulikowski and Ilya B. Mucknik</i>	Spatially Enhanced Bags of Words for 3D Shape Retrieval <i>Xiaolan Li, Afzal Godil and Asim Wagan</i>
3:40-4:10	<i>Coffee Break</i>	
4:10	Active Contours Driven by Supervised Binary Classifiers for Texture Segmentation <i>Julien Olivier, Romuald Bone, Jean-Jacques Rousselle and Hubert Cardot</i>	Image Matching Using High Dynamic Range Images and Radial Feature Descriptors <i>Krishnaprasad Jagadish and Eric Sinzinger</i>
4:30	Proximity Graphs Based Multi-Scale Image Segmentation <i>Alexei N. Skurikhin</i>	Random Subwindows for Robust Peak Recognition in Intracranial Pressure Signals <i>Fabien Scalzo, Peng Xu, Marvin Bergsneider and Xiao Hu</i>
4:50	Improved Adaptive Spatial Information Clustering for Image Segmentation <i>Zhi Min Wang, Qing Song, Yeng Chai Soh and Kang Sim</i>	A New Shape Benchmark for 3D Object Retrieval <i>Rui Fang, Afzal Godil, Xiaolan Li and Asim Wagan</i>
5:10	Stable Image Descriptions using Gestalt Principles <i>Yi-Zhe Song and Peter M. Hall</i>	Shape Extraction through Region-Contour Stitching <i>Elena Bernardis and Jianbo Shi</i>
2:40-5:30	Face/Gesture Chair: Ara Nefian (Ballroom 3)	Virtual Reality I Chair: Muhammad Hussain (Gold Room)
2:40	Face recognition Based on Normalization and the Phase Spectrum of the Local Part of an Image <i>Jesus Olivares-Mercado, Kazuhiro Hotta, Haruhisa Takahashi, Hector Perez-Meana, Mariko Nakano Miyatake and Gabriel Sanchez-Perez</i>	The Benefits of Co-located Collaboration and Immersion on Assembly Modeling in Virtual Environments <i>David d'Angelo, Gerold Wesche, Maxim Foursa and Manfred Bogen</i>
3:00	A Novel Shape Registration Framework and Its Application to 3D Face Recognition in the Presence of Expressions <i>Rachid Fahmi and Aly A. Farag</i>	Simple feedforward control for responsive motion capture-driven simulations <i>Rubens F. Nunes, Creto A. Vidal, Joaquim B. Cavalcante-Neto and Victor B. Zordan</i>
3:20	Frontal Face Recognition from Video <i>Angshul Majumdar and Panos Nasiopoulos</i>	Marker less Vision-Based Tracking of Partially Known 3D Scenes for Outdoor Augmented Reality Applications <i>Fakhreddine Ababsa, Jean-Yves Didier, Imane Zenzjebil and Malik Malle</i>
3:40-4:10	<i>Coffee Break</i>	
4:10	Real Time Hand Based Robot Control Using 2D/3D Images <i>Seyed Eghbal Ghobadi, Omar Edmond Loepprich, Farid Ahmadov, Jens Bernshausen, Klaus Hartmann and Otmar Loeld</i>	Multiple Camera, Multiple Person Tracking with Pointing Gesture Recognition in Immersive Environments <i>Anuraag Sridhar and Arcot Sowmya</i>
4:30	Facial Trait Code and its Applications to Face Recognition <i>Ping-Han Lee and Gee-Sern Hsu and Tsuhan Chen and Yi-Ping Hung</i>	Augmented Reality Using Projective Invariant Patterns <i>Lucas Teixeira, Manuel Loaiza, Alberto Raposo and Marcelo Gattass</i>
4:50	Using Multiple Masks to Improve End-to-End Face Recognition Performance <i>Christopher A. Neylan and Andrea Salgjan</i>	Acquisition of High Quality Planar Patch Features <i>Harald Wuest, Folker Wientapper and Didier Stricker</i>
5:10	Sparse Representation for Ear Biometrics <i>Imran Naseem, Roberto Togneri and Mohammed Bennamoun</i>	

Tuesday, December 2nd

7:00-8:30	<i>Breakfast (Ballroom 2-3)</i>	
8:30-9:30	<i>Keynote: Kelly Gaither, University of Texas at Austin, USA (Ballroom 4-5)</i>	
Parallel Sessions		
9:40-12:10	ST: Computational Bioimaging and Visualization Chairs: João Manuel R. S. Tavares (Ballroom 4-5)	Computer Graphics II Chair: Tim McGraw (Ballroom 2)
9:40	Level Set Segmentation of Cellular Images based on Topological Dependence <i>Weimiao Yu, Hwee Kuan Lee, Srivats Hariharan, Wenyu Bu and Sohail Ahmed</i>	GPU-Supported Image Compression for Remote Visualization - Realization and Benchmarking <i>Stefan Lietsch and Paul Hermann Lensing</i>
10:00	A Novel Algorithm for Automatic Brain Structure Segmentation from MRI <i>Qing He, Kevin Karsch and Ye Duan</i>	Efficient Schemes for Monte Carlo Markov Chain Algorithms in Global Illumination <i>Yu-Chi Lai, Feng Liu, Li Zhang, and Charles Dyer</i>
10:20	Brain Lesion Segmentation through Physical Model Estimation <i>Marcel Prastawa and Guido Gerig</i>	Adaptive CPU Scheduling to Conserve Energy in Real-Time Mobile Graphics Applications <i>Fan Wu, Emmanuel Agu and Clifford Lindsay</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Calibration of Bi-planar Radiography with a Rangefinder and a Small Calibration Object <i>Daniel C. Moura, Jorge G. Barbosa, Joao Manuel R. S. Tavares and Ana M. Reis</i>	A Quick 3D-to-2D Points Matching based on the Perspective Projection <i>Songxiang Gu, Clifford Lindsay, Michael A. Gennert and Michael A. King</i>
11:30	Identification of Cell Nucleus using a Mumford-Shah Ellipse Detector <i>Choon Kong Yap and Hwee Kuan Lee</i>	Deformation-based Animation of Snake Locomotion <i>Yeongho Seol and Junyong Noh</i>
11:50	Evaluation of Brain MRI Alignment with the Robust Hausdorff Distance Measures <i>Andriy Fedorov, Eric Billet, Marcel Prastawa, Guido Gerig, Alireza Radmanesh, Simon K. Warfield, Ron Kikinis and Nikos Chrisochoides</i>	User Driven Two-Dimensional Computer-Generated Ornamentation <i>Dustin Anderson and Zoe Wood</i>
9:40-12:10	ST: Discrete and Computational Geometry and their Applications in Visual Computing I Chair: Valentin E. Brimkov (Ballroom 3)	ST: Soft Computing in Image Processing and Computer Vision Chair: Gerald Schaefer (Gold Room)
9:40	Linear Time Constant-Working Space Algorithm for Computing the Genus of a Digital Object <i>Valentin E. Brimkov and Reneta P. Barneva</i>	Iris Recognition: A Method To Segment Visible Wavelength Iris Images Acquired On-The-Move and At-A-Distance <i>Hugo Proenca</i>
10:00	Offset Approach to Defining 3D Digital Lines <i>Valentin E. Brimkov, Reneta P. Barneva, Boris Brimkov and Fran çois de Vieilleville</i>	3D Textural Mapping and Soft-Computing Applied to Cork Quality Inspection <i>Beatriz Paniagua, Miguel A. Vega-Rodríguez, Mike Chantler, Juan A. Gómez-Pulido and Juan M. Sánchez-Pérez</i>
10:20	Curvature and torsion estimators for 3D curves <i>Thanh Phuong Nguyen and Isabelle Debled-Rennesson</i>	Analysis of breast thermograms based on statistical image features and hybrid fuzzy classification <i>Gerald Schaefer, Tomoharu Nakashima and Michal Zaviscek</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Threshold selection for segmentation of dense objects in tomograms <i>W. van Aarle, K. J. Batenburg and J. Sijbers</i>	Efficient Facial Feature Detection Using Entropy and SVM <i>Qiong Wang, Chunxia Zhao and Jingyu Yang</i>
11:30	Comparison of Discrete Curvature Estimators and Application to Corner Detection <i>B. Kerautret, J.-O Lachaud and B. Naegel</i>	Type-2 Fuzzy Mixture of Gaussians Model: Application to Background Modeling <i>Fida El Baf, Thierry Bouwmans and Bertrand Vachon</i>
11:50	Computing and Visualizing Constant-Curvature Metrics on Hyperbolic 3-Manifolds with Boundaries <i>Xiaotian Yin, Miao Jin, Feng Luo and Xianfeng David Gu</i>	Unsupervised Clustering Algorithm for Video Shots using Spectral Division <i>Lin Zhong, Chao Li, Huan Li, and Zhang Xiong</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/Attentional Vision Chair: Paolo Remagnino (Ballroom 4-5)	ST: Visualization and Simulation on Immersive Display Devices Chair: Daniel Coming (Ballroom 2)
	3:30 Noise Analysis of a SFS Algorithm Formulated Under Various Imaging Conditions <i>Amal A. Farag, Shireen Y. Elhabian, Abdelrehim H. Ahmed and Aly A. Farag</i>	Immersive 3d Visualizations for Software-Design Prototyping and Inspection <i>Anthony Savidis, Panagiotis Papadakos and George Zargianakis</i>
	3:50 Shape from Texture via Fourier Analysis <i>Fabio Galasso and Joan Lasenby</i>	VR visualisation as an interdisciplinary collaborative data exploration tool for large eddy simulations of bio-sphere-atmosphere interactions <i>Gil Bohrer, Marcos Longo, David J Zielinski and Rachael Brady</i>
4:10-4:40	Coffee Break	
	4:40 Full Camera Calibration from a Single View of Planar Scene <i>Yisong Chen, Horace Ipz, Zhangjin Huangy and Guoping Wang</i>	User Experience of Hurricane Visualization in an Immersive 3D Environment <i>J. Sanyal, P. Amburn, S. Zhang, J. Dyer, P. J. Fitzpatrick and R. J. Moorhead</i>
	5:00 Robust Two-view External Calibration by Combining Lines and Scale Invariant Point features <i>Xiaolong Zhang, Jin Zhou and Baoxin Li</i>	Immersive Visualization and Analysis of LiDAR Data <i>Oliver Kreylos, Gerald W. Bawden and Louise H. Kellogg</i>
	5:20 Stabilizing Stereo Correspondence Computation Using Delaunay Triangulation and Planar Homography <i>Chao-I Chen, Dusty Sargent, Chang-Ming Tsai, Yuan-Fang Wang and Dan Koppel</i>	Environment-Independent VR Development <i>Oliver Kreylos</i>
	5:40 Progressive focussing: a top down attentional vision system <i>Roland Chapuis, Frederic Chausse, and Noel Trujillo Bennamoun</i>	Enclosed Five-Wall Immersive Cabin <i>Feng Qiu, Bin Zhang, Kaloian Petkov, Lance Chong, Arie Kaufman, Klaus Mueller and Xianfeng David Gu</i>
	6:00	Panel Discussion: Jian Chen, Patrick O'Leary and Alfred Inselberg
3:30-6:00	ST: Discrete and Computational Geometry and their Applications in Visual Computing II Chair: Reneta P. Barneva (Ballroom 3)	Virtual Reality II Chair: Thomas Wischgoll (Gold Room)
	3:30 Combined Registration Methods for Pose Estimation <i>Dong Han, Bodo Rosenhahn, Joachim Weickert, and Hans-Peter Seidel</i>	OmniMap: Projective Perspective Mapping API for Non-planar Immersive Display Surfaces <i>Clement Shimizu, Jim Terhorst and David McConville</i>
	3:50 Local non-planarity of three dimensional surfaces for an invertible reconstruction: k-cuspal cells. <i>Marc Rodriguez, Gaele Largeteau-Skapin, Eric Andres</i>	Two-handed and one-handed techniques for precise and efficient manipulation in immersive virtual environments <i>Noritaka Osawa</i>
4:10-4:40	Coffee Break	
	4:40 A New Variant of the Optimum-Path Forest Classifier <i>Joao P. Papa and Alexandre X. Falcao</i>	VR Spray Painting for Training and Design <i>Jonathan Konieczny, Gary Meyer, Clement Shimizu, John Heckman, Mark Manyen and Marty Rabens</i>
	5:00 Results on Hexagonal Tile Rewriting Grammars <i>D.G. Thomas, F. Sweety and T. Kalyani</i>	Using Augmented Reality and interactive simulations to realize hybrid prototypes <i>Florian Niebling, Rita Griesser and Uwe Woessner</i>
	5:20 Lloyd's Algorithm on GPU <i>Cristina N. Vasconcelos, Asla Sa, Paulo Cezar Carvalho, Marcelo Gattass</i>	Immersive Simulator for Fluvial Combat Training <i>Diego A. Hincapie Ossa, Sergio A. Ordonez Medina, Carlos Francisco Rodriguez and Jose Tiberio Hernandez</i>
	5:40 Computing Fundamental Group of General 3-manifold <i>Junho Kim, Miao Jin, Qian-Yi Zhou, Feng Luo, and Xianfeng Gu</i>	A Low-cost, Linux-based Virtual Environment for Visualizing Vascular Structures <i>Thomas Wischgoll</i>
7:00-10:00	Banquet Dinner (Ballroom 4-5) Keynote: J.K. Aggarwal, University of Texas at Austin, USA	

Wednesday, December 3rd

7:00-8:30	<i>Breakfast (Ballroom 2-3)</i>	
8:30-9:30	<i>Keynote: Arie Kaufman, Stony Brook University, USA (Ballroom 4-5)</i>	
Parallel Sessions		
9:40-12:10	ST: Analysis and Visualization of Biomedical Visual Data Chair: Eric Grimson (Ballroom 4-5)	Computer Graphics III Chair: Shuhua Lai (Ballroom 2)
9:40	Visualization of dynamic connectivity in high electrode-density EEG <i>Alfonso Alba and Edgar Arce-Santana</i>	Tracking Data Structures Coherency in Animated Ray Tracing: Kalman and Wiener Filters Approach <i>Sajid Hussain and Håkan Grah</i>
10:00	A New Parallel Approach to Fuzzy Clustering for Medical Image Segmentation <i>Huynh Van Luong and Jong Myon Kim</i>	Hardware Accelerated Per-Textel Ambient Occlusion Mapping <i>Tim McGraw and Brian Sowers</i>
10:20	Intuitive Visualization and Querying of Cell Motion <i>Richard Souvenir, Jerrod P. Kraftchick and Min C. Shin</i>	Comic Stylization from Photograph <i>Catherine Sauvaget and Vincent Boyer</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Registration of 2D Histological Images of Bone Implants with 3D μ CT Volumes <i>Hamid Sarve, Joakim Lindblad, and Carina B. Johansson</i>	Leaking Fluids <i>Kiwon Um and JungHyun Han</i>
11:30	Measuring an animal body temperature in thermographic video using particle filter tracking <i>Atousa Torabi, Guillaume-Alexandre Bilodeau, Maxime Levesque, J.M. Pierre Langlois, Pablo Lema and Lionel Carmant</i>	Automatic Structure-Aware Inpainting for Complex Image Content <i>Patrick Ndjiki-Nya, Martin Köppel, Dimitar Doshkov, and Thomas Wiegand</i>
11:50	Generation of Unit-width curve skeletons based on Valence Driven Spatial Median (VDSM) <i>Tao Wang and Irene Cheng</i>	Multiple Aligned Characteristic Curves for Surface Fairing <i>Janick Martinez Esturo, Christian Rössl and Holger Theisel</i>
9:40-12:10	Visualization II Chair: Tim Dwyer (Ballroom 3)	ST: Image Analysis for Remote Sensing Data Chair: Jose Malpica (Gold Room)
9:40	SUNVIZ: A Real-time Visualization Environment for Space Physics Applications <i>S. Eliuk, P. Boulanger, K. Kabin</i>	Identification of Oceanic Eddies in Satellite Images <i>Armando Manuel Fernandes</i>
10:00	An Efficient Quality-based Camera Path Planning Method for Volume Exploration <i>Ming-Yuen Chan, Wai-Ho Mak, Huamin Qu</i>	Multi-image fusion in remote sensing: spatial Enhancement vs. Spectral Characteristics Preservation <i>Manfred Ehlers</i>
10:20	A fast and simple heuristic for metro map path simplification <i>Tim Dwyer, Nathan Hurst, and Damian Merrick</i>	Classification of multispectral high-resolution satellite imagery using LIDAR elevation data <i>María C. Alonso and José A. Malpica</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Visual Verification of Hypothesis <i>Thorsten May, Joern Kohlhammer</i>	Semi-supervised Edge Learning for Building Detection in Aerial Images <i>Fenglei Yang, Ye Duan and Yue Lu</i>
11:30	LDR-LLE: LLE with low-dimensional neighborhood representation <i>Yair Goldberg and Yaacov Ritov</i>	High resolution satellite classification with graph cut algorithms <i>Adrian A. López and José A. Malpica</i>
11:50	SudokuVis - How to Explore Relationships of Mutual Exclusion <i>Gudrun Klinker</i>	Satellite Image Segmentation Using Wavelet Transforms Based on Color and Texture Features <i>Ricardo Dutra da Silva, Rodrigo Minetto William Robson Schwartz and Helio Pedrini</i>
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-2:30	Keynote: <u>Eric Grimson</u>, Massachusetts Institute of Technology, USA (Ballroom 4-5)	
	Parallel Sessions	
2:40-5:30	Shape/Recognition II Chair: Alexei Skurikhin (Ballroom 4-5)	Motion and Tracking Chair: Mircea Nicolescu (Ballroom 2)
	2:40 A System for Rapid Interactive Training of Object Detectors <i>Nathaniel Roman and Robert Pless</i>	Combining Line and Point Correspondences for Homography Estimation <i>Elan Dubrofsky and Robert J. Woodham</i>
	3:00 An Integrated Method for Multiple Object Detection and Localization <i>Dipankar Das, Al Mansur, Yoshinori Kobayashi, and Yoshinori Kuno</i>	Integration of Local Image Cues for Probabilistic 2D Pose Recovery <i>Paul Kuo, Dimitrios Makris, Najla Megherbi, Jean-Christophe Nebel</i>
	3:20 A Context Dependent Distance Measure for Shape Clustering <i>Rolf Lakaemper, JingTing Zeng</i>	Indirect Tracking to Reduce Occlusion Problems <i>Peter Keitler, Michael Schlegel, and Gudrun Klinker</i>
3:40-4:10	Coffee Break	
	4:10 A New Accumulator-based Approach to Shape Recognition <i>Karthik Krish and Wesley Snyder</i>	Real-time Lip Contour Extraction and Tracking using an Improved Active Contour Model <i>Jingying Chen Bernard Tiddeman Gang Zhao</i>
	4:30 Multi-dimensional Scale Saliency Feature Extraction Based on Entropic Graphs <i>P. Suau, F. Escolano</i>	Particle Filter Based Object Tracking with Discriminative Feature Extraction and Fusion <i>Yao Shen, Parthasarathy Guturu, Thyagaraju Damarla, and Bill P. Buckles</i>
	4:50 Merging Active Contours <i>Ismail Ben Ayed and Amar Mitiche</i>	A New Global Alignment Method for Feature Based Image Mosaicing <i>A. Elibol, R. Garcia, O. Delaunoy and N. Gracias</i>
	5:10 Contour Extraction using Particle Filters <i>ChengEn Lu and Longin Jan Latecki and Guangxi Zhu</i>	An Effective Active Vision System for Gaze Control <i>Yann Ducrocq, Shahram Bahrami Luc Duvieubourg, and Francois Cabestaing</i>
2:40-5:30	Video Analysis and Event Recognition Chair: George Bebis (Ballroom 3)	Computer Vision Applications Chair: Bahram Parvin (Gold Room)
	2:40 Difference of Gaussian Edge-Texture Based Background Modeling for Dynamic Traffic Conditions <i>Amit Satpathy, How-Lung Eng, and Xudong Jiang</i>	Image-Based Information Guide on Mobile Devices <i>Jimmy Addison Lee, Kin-Choong Yow, Andrzej Sluzek</i>
	3:00 A Sketch-Based Approach for Detecting Common Human Actions <i>Evan A. Suma, Christopher Walton Sinclair, Justin Babbs, and Richard Souvenir</i>	Estimating Atmospheric Visibility Using Networked Cameras <i>Ling Xie, Alex Chiu and Shawn Newsam</i>
	3:20 Multi-View Video Analysis of Humans and Vehicles in an Unconstrained Environment <i>D.M. Hanseny, P.T. Duizery, S. Parkz, T.B. Moeslundy, and M.M. Trivedi</i>	Numismatic object identification using fusion of shape and local descriptors <i>R. Huber-Mork, M. Zaharieva, and H. Czedik-Eysenberg</i>
3:40-4:10	Coffee Break	
	4:10 Self-Organizing Maps for the Automatic Interpretation of Crowd Dynamics <i>B.Zhan, P.Remagnino, N.Monekosso, S.A.Velastin</i>	Personalized News Video Recommendation via Interactive Exploration <i>Jianping Fan, Hangzai Luo, Aoying Zhou, and Daniel A. Keim</i>
	4:30 A Visual Tracking Framework for Intent Recognition in Videos <i>Alireza Tavakkoli, Richard Kelley, Christopher King, Mircea Nicolescu, Monica Nicolescu, George Bebis</i>	Browsing a Large Collection of Community Photos based on Similarity on GPU <i>Grant Strong and Minglun Gong</i>
	4:40 Unsupervised Video Shot Segmentation Using Global Color and Texture Information <i>Yuchou Chang, Dah-Jye Lee, Yi Hong, and James Archibald</i>	Security Analysis for Spread-Spectrum Watermarking Incorporating Statistics of Natural Images <i>Dong Zhang, Jiangqun Ni, and Dah-Jye Lee</i>
	5:10	Multi-view Feature Matching and Image Grouping from Multiple Unordered Wide-baseline Images <i>Xiuyuan Zeng, Heng Yang, Qing Wang</i>

Poster Session (Ballroom 4-5)

Tuesday, December 2nd (1:30pm-3:30pm)

<p>GpuCV: A GPU-accelerated framework for Image Processing and Computer Vision <i>Yannick Allusse, Patrick Horain, Ankit Agarwal, and Cindula Saipriyadarshan</i></p>
<p>A Comparison Study on Two Multi-Scale Shape Matching Schemes <i>Bo Li and Henry Johan</i></p>
<p>PAD Model Based Facial Expression Analysis <i>Jie Cao, Hong Wang, Po Hu, and Junwei Miao</i></p>
<p>Calibration and Pose Estimation of a Pox-slits Camera from a Single Image <i>N. Martins and H. Araujo</i></p>
<p>Covariance Matrices for Crowd Behaviour Monitoring on the Escalator exits <i>Md. Haidar Sharif, Nacim Ihaddadene, and Chabane Djeraba</i></p>
<p>User Verification by Combining Speech and Face Biometrics in Video <i>Imran Naseem and Ajmal Mian</i></p>
<p>A Gibbsian Kohonen network for online Arabic character recognition <i>Neila Mezghani and Amar Mitiche</i></p>
<p>Shading Through Defocus <i>Jose R.A. Torreao and Joao L. Fernandes</i></p>
<p>A Gabor Quotient Image for Face Recognition under varying Illumination <i>Sanun Srisuk and Amnart Petpon</i></p>
<p>Personal Identification using Palmprint and Contourlet Transform <i>Atif Bin Mansoor, M Mumtaz, H Masood, M Asif A Butt, and Shoab A Khan</i></p>
<p>Generating Reflection Transparent Image Using Image Fusion Space <i>Satoru Morita and Yasutoshi Sugiman</i></p>
<p>Fingerprint Images Enhancement In Curvelet Domain <i>Gholamreza Amayeh, Soheil Amayeh and Mohammad Taghi Manzuri</i></p>
<p>Effective Frame Rate Decision By Lagrange Optimization For Frame Skipping VideoTranscoding <i>Ching-Ting Hsu, Chia-Hung Yeh and Mei-Juan Chen</i></p>
<p>Symmetry of Shape via Self Similarity <i>Xingwei Yang, Nagesh Adluru, Longin Jan Latecki, Xiang Bai, and Zygmunt Pizlo</i></p>
<p>Robust Estimation Approach for NL-Means Filter <i>J. Dinesh Peter, V.K. Govindan, and Abraham T. Mathew</i></p>
<p>View-Invariant Pose Recognition using Multilinear Analysis and the Universum <i>Bo Peng, Gang Qian, and Yunqian Ma</i></p>
<p>Scaling Up a Metric Learning Algorithm for Image Recognition and Representation <i>Adrian Perez-Suay and Francesc J. Ferri</i></p>
<p>Smile Detection for User Interfaces <i>O. Deniz, M. Castrillon, J. Lorenzo, L. Anton, and G. Bueno</i></p>
<p>A Novel Segmentation Algorithm for Digital Subtraction Angiography Images: first experimental results <i>Danilo Franchi, Pasquale Gallo and Giuseppe Placidi</i></p>
<p>Image Representation in Differential Space <i>Shengzhi Du, Barend Jacobus van Wyk, M. Antonie van Wyk, Guoyuan Qi, Xinghui Zhang, and Chunling Tu</i></p>

Poster Session (cont'd)

Tuesday, December 2nd (1:30pm – 3:30pm)

<p>A Four Point Algorithm for Fast Metric Cone Reconstruction from a Calibrated Image <i>Jin Zhou and Baoxin Li</i></p>
<p>TEXTURE-BASED SHADOW REMOVAL FROM A SINGLE COLOR IMAGE <i>Qiang He and Chee-Hung Henry Chu</i></p>
<p>Multi-Source Airborne IR and Optical Image Fusion and its Application to Target Detection <i>Fenghui Yao and Ali Sekmen</i></p>
<p>A New Adaptive Combination Approach to Score Level Fusion for Face and Iris Biometrics Combining Wavelets and Statistical Moments <i>Nicolas Morizet and Jerome Gilles</i></p>
<p>Medical Image Zooming Algorithm Based on Bivariate Rational Interpolation <i>Shanshan Gao, Caiming Zhang, Yunfeng Zhang, and Yuanfeng Zhou</i></p>
<p>2D Shape Decomposition Based on Combined Boundary-Skeleton Features <i>JingTing Zeng, Rolf Lakaemper, XingWei Yang, and Xin Li</i></p>
<p>Removing Pose from Face Images <i>Sean Begley, John Mallon, and Paul F. Whelan</i></p>
<p>A Real Time Fingers Detection by Symmetry Transform Using a Two Cameras System <i>Rachid Belaroussi and Maurice Milgram</i></p>
<p>High Resolution and High Dynamic Range Image Reconstruction from Differently Exposed Images <i>Hiroyuki Nakai, Shuhei Yamamoto, Yasuhiro Ueda, and Yoshihide Shigeyama</i></p>
<p>PDE-based Facial Animation: Making the Complex Simple <i>Yun Sheng, Phil Willis, Gabriela Gonzalez Castro and Hassan Ugail</i></p>
<p>A Variational Level Set Method for Multiple Object Detection <i>Zhenkuan Pan, Hua Li, Weibo Wei, and Shuhua Xu</i></p>
<p>Detecting thalamic Abnormalities in Autism Using Cylinder Conformal Mapping <i>Qing He, Ye Duan, Xiaotian Yin, Xianfeng Gu, Kevin Karsch, Judith Miles</i></p>
<p>Extraction Of Illumination Effects From Natural Images With Color Transition Model <i>Hiroaki Nishihara and Tomoharu Nagao</i></p>
<p>A Novel Macrobloc-level Rate-Distortion Optimization Scheme for H.264/AVC <i>Hong-jun Wang, Chang Sun and Hua Li</i></p>
<p>Automatic Segmentation of the Apparent Contour for 3D Modeling of Cutting Tools from Single View <i>Xi Zhanga, Waiming Tsanga, Xiaodong Tian, Kazuo Yamazakia, and Masahiko Moric</i></p>
<p>On Semantic Object Detection with Salient Feature <i>Zhidong Li and Jing Chen</i></p>
<p>A Generic and Parallel Algorithm for 2D Image Discrete Contour Reconstruction <i>Guillaume Damiand and David Coeurjolly</i></p>
<p>Spatial Filtering with Multi-scale Segmentation based on Gaussian Function <i>Chi-Fan Chen and Chia-Hsin Liang</i></p>
<p>Visibility-based Test Scene Understanding by Real Plane Search <i>Jae-Kyu Lee, Seongjin Ahn, and Jin Wook Chung</i></p>
<p>Real-time Face Verification for Mobile Platforms <i>Sung-Uk Jung, Yun-Su Chung, Jang-Hee Yoo, and Ki-Young Moon</i></p>

Poster Session (cont'd)

Tuesday, December 2nd (1:30pm – 3:30pm)

<p>3D Human Motion Tracking Using Progressive Particle Filter <i>Shih-Yao Lin and I-Cheng Chang</i></p>
<p>Visual Servoing for Patient Alignment in ProtonTherapy <i>Rachid Belaroussi and Guillaume Morel</i></p>
<p>Improving Recognition through Object Sub-categorization <i>Al Mansur and Yoshinori Kuno</i></p>
<p>Similarity Measure of the Visual Features using the Constrained Hierarchical Clustering for Content Based Image Retrieval <i>Sang Min Yoon and Holger Graf</i></p>
<p>An Experimental Study of Reconstruction of Tool Cutting Edge Features Using Space Carving Method <i>Wai Ming Tsanga, Xi Zhanga, Kazuo Yamazakia, Xiaodong Tian, Masahiko Moric</i></p>
<p>Real time object tracking in a video sequence using a fixed point DSP <i>Syed Aamir Ali Shah, Tahir Jamil Khattak, Muhammad Farooq, Yahya M. Khawaja, Abdul Bais, Asim Anees, and Muhammad U.K. Khan</i></p>
<p>Gesture Recognition for a Webcam-Controlled First Person Shooter <i>Robert W. Wilson and Andrea Salgian</i></p>
<p>3D line reconstruction of a road environment using an in-vehicle camera <i>Toshihiro Asai, Koichiro Yamaguchi, Yoshiko Kojima, Takashi Naito, and Yoshiki Ninomiya</i></p>
<p>Braille Document Parameters Estimation for Optical Character Recognition <i>Zhenfei Tai, Samuel Cheng and Pramode Verma</i></p>
<p>Bio-Imaging Toolkit for Indexing, Searching, Navigation, Discovery and Annotation <i>Afzal Godil, Benny Cheung, Asim Wagan, Xiaolan Li</i></p>
<p>Stereoscopic View Synthesis by View Morphing <i>Seon-Min Rhee, Jongmoo Choi, and Ulrich Neumann</i></p>
<p>Edge Detection from Global and Local Views Using an Ensemble of Multiple Edge Detectors <i>Yuchou Chang, Dah-Jye Lee, Yi Hong, and James Archibald</i></p>
<p>An Effective and Fast Lane Detection Algorithm <i>Chung-Yen Su and Gen-Hau Fan</i></p>
<p>Towards Real-Time Monocular Video-Based Avatar Animation <i>Utkarsh Gaur, Amrita Jain, and Sanjay Goel</i></p>
<p>Temporal Computational Objects: A Process for Dynamic Surface Generation <i>Kurt W. Swanson, Kenneth A. Brakke and David E. Breen</i></p>
<p>Hardware-Accelerated Particle-Based Volume Rendering for Multiple Irregular Volumes <i>Naohisa Sakamoto, Ding Zhongming, Takuma Kawamura, and Koji Koyamada</i></p>
<p>Immersive Visualization of Casting Flow and Solidification <i>Jiyoung Park, Sang-Hyun Cho, Jung-Gil Choi, and Myoung-Hee Kim</i></p>
<p>Graph-Based Visual Analytic Tools for Parallel Coordinates <i>Kai Lun Chung and Wei Zhuo</i></p>

Poster Session (cont'd)

Tuesday, December 2nd (1:30pm – 3:30pm)

<p>Modeling and Visualization Approaches for Time-Varying Volumetric Data <i>Kenneth Weiss and Leila De Floriani</i></p>
<p>Ubiquitous Interactive Visualization of 3-D Mantle Convection through Web Applications Using Java <i>Jonathan C. Mc Lane, Wojciech W. Czech, David A. Yuen, Michael R. Knox, James B.S.G. Greensky, M. Charley Kameyama, Vincent M. Wheeler, Rahul Panday, and Hiroki Senshu</i></p>
<p>Streaming Mesh Optimization for CAD <i>Tian Xia and Eric Shaffer</i></p>
<p>An Iterative Method for Fast Mesh Denoising <i>Shuhua Lai and Fuhua (Frank) Cheng</i></p>
<p>On The Performance and Scalability of a GPU-Limited Commodity Cluster <i>Jorge Luis Williams and Robert E. Hiromoto</i></p>
<p>Algorithms for the Automatic Design of Non-Formal Urban Parks <i>Soon Tee Teh</i></p>
<p>Hybrid Shading Model based on Device Performance for LOD Adaptive Service <i>Hakran Kim and Hwajin Park</i></p>
<p>Incremental Texture Compression for Real-Time Rendering <i>Ying Tang and Jing Fan</i></p>
<p>Geometry Independent Rain Rendering for Generic, Complex Scenes <i>Jürgen Rossmann, Nico Hempe</i></p>
<p>Extension of B-Spline Curves with G^2 Continuity <i>Zhou Yuan-feng, Zhang Cai-ming, and Gao Shan-shan</i></p>
<p>Building New Mixed Reality Devices <i>Camilo A. Perez and Pablo A. Figueroa</i></p>
<p>A Novel Acceleration Coding/Reconstruction Algorithm for Magnetic Resonance Imaging in Presence of Static Magnetic Field In-Homogeneities <i>Giuseppe Placidi, Danilo Franchi, Angelo Galante, Antonello Sotgiu</i></p>
<p>Reconstruction of some segmented and dynamic scenes: trifocal tensors in P^4, theoretical set up for critical loci, and instability <i>Marina Bertolini, GianMario Besana, and Cristina Turrini</i></p>
<p>Efficient algorithms for reconstruction of 2D-arrays from extended Parikh images <i>V. Masilamani, Kamala Krithivasan, K.G. Subramanian and Ang Miin Huey</i></p>
<p>Reconstruction of Binary Images with Few Disjoint Components from Two Projections <i>Peter Balazs</i></p>
<p>A connection between Z^n and generalized triangular grids <i>Benedek Nagy and Robin Strand</i></p>
<p>Collage of Hexagonal Arrays <i>F. Sweet, D.G. Thomas and T. Kalyani</i></p>
<p>Discrete Contour Extraction from Reference Curvature Function <i>H.G. Nguyen, B. Kerautret, P. Desbarats, and J.-O. Lachaud</i></p>
<p>Change detection with SPOT-5 and FORMASAT-2 imagery <i>Patricia Cifuentes, José A. Malpica and Francisco J. González-Matesanz</i></p>
<p>Stitching Video from Webcams <i>Mai Zheng, Xiaolin Chen and Li Guo</i></p>

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(Area 2) Computer Graphics

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(Area 3) Virtual Reality

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Brady Rachael, Duke University, USA
Brega Jos Remo Ferreira, Universidade Estadual Paulista, Brazil
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Coming Daniel, Desert Research Institute, USA
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Orlando, USA
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Austria

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(Area 4) Visualization

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