



**3rd International Symposium
on Visual Computing (ISVC07)**

Lake Tahoe, Nevada/California

November 26-28, 2007

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Final Program

3rd International Symposium on Visual Computing (ISVC07)

November 26-28, 2007, Lake Tahoe, NV/CA, USA

Symposium Overview

	Monday 26 th	Tuesday 27 th	Wednesday 28 th
07:30 am – 09:00 am	<i>Breakfast</i> (Sand Harbor III)		
09:00 am – 10:00 am	Keynote (Sand Harbor II)		
10:00 am – 11:00 am	Parallel Sessions (Sand Harbor II & Tahoe A, B, C-D)		
11:00 am – 11:30 pm	<i>Coffee Break</i>		
11:30 am – 12:30 am	Parallel Sessions (Sand Harbor II & Tahoe A, B, C-D)		
12:30 pm – 14:00 pm	<i>Lunch Break</i> (on your own)		
14:00 pm – 15:00 pm	Keynote (Sand Harbor II)	Poster Session * (Sand Harbor II)	Keynote (Sand Harbor II)
15:00 pm – 16:00 pm	Parallel Sessions (Sand Harbor II & Tahoe A, B, C-D)		
16:00 pm – 16:30 pm	<i>Coffee Break</i>		
16:30 pm – 17:30 pm	Parallel Sessions (Sand Harbor II & Tahoe A,B, C-D)		

Registration Desk hours: Sunday 25th: 3:00pm-6:00pm

Monday 26th – Wednesday 28th: 8:00am – 5:00pm

Symposium Reception: Monday 26th: 6:30pm – 9:30pm (Sand Harbor III)

Banquet Dinner and Keynote: Tuesday 27th: 6:30pm – 9:30pm (Sand Harbor III)

- The poster session runs from 14:00pm to 15:30pm (see page 6)

Monday, November 26th

07:30-09:00	<i>Breakfast (Sand Harbor III)</i>	
09:00-10:00	<i>Keynote: <u>Mathieu Desbrun</u>, California Institute of Technology (Sand Harbor II)</i>	
Parallel Sessions		
10:00-12:30	ST5: Medical Data Analysis Chair: Gerald Schaefer (Sand Harbor II)	Computer Graphics I Chair: Tom Malzbender (Tahoe A)
	10:00	Automatic Subcortical Structure Segmentation using Probabilistic Atlas <i>Jundong Liu, David Chelberg, Charles Smith, Hima Chebrolu</i>
	10:20	Integrative Geometric-Hashing Approaches to Binding Site Modeling and Ligand-Protein Interaction Prediction <i>Joanna Lipinski-Kruszka, Rahul Singh</i>
	10:40	4D Ventricular Segmentation and Wall Motion Estimation Using Efficient Discrete Optimization <i>Ahmed Besbes, Nikos Komodakis, Ben Glocker, Georgios Tziritas and Nikos Paragios</i>
11:00-11:30	<i>Coffee Break</i>	
	11:30	Teniae coli detection from colon surface: extraction of anatomical markers for virtual colonoscopy <i>Julien Lamy, Ronald M. Summers</i>
	11:50	A Quantitative Object-Level Metric for Segmentation Performance and Its Application to Cell Nuclei <i>Laura E. Boucheron, Neal R. Harvey, and B. S. Manjunath</i>
	12:10	A Convex Semi-Definite Positive Framework for DTI Estimation and Regularization <i>Radhouene Neji, Noura Azzabou, Nikos Paragios and Gilles Fleury</i>
10:00-12:30	Virtual Reality I Chair: Pablo Figueroa (Tahoe B)	Motion/Tracking I Chair: Mircea Nicolescu (Tahoe C-D)
	10:00	Autopolis: Allowing User Influence in the Automatic Creation of Realistic Cities <i>Soon Tee Teoh</i>
	10:20	Simulation of Flexible Tubes in VR <i>Florian Mannuss, Andre Hinkenjann, Gernot Gobbels, Martin Gobel</i>
	10:40	Blur in Human Vision and Increased Visual Realism in Virtual Environments <i>Michael S. Bittermann, I. Sevil Sariyildiz, Özer Ciftcioglu</i>
11:00-11:30	<i>Coffee Break</i>	
	11:30	Embedded Multigrid Approach For Real-Time Volumetric Deformation <i>Guillaume Saupin, Christian Duriez, Laurent Grisoni</i>
	11:50	A Novel Optical Tracking Algorithm for Point-Based Projective Invariant Marker Patterns <i>Manuel Loaiza, Alberto Raposo, and Marcelo Gattass</i>
	12:10	Using Gaussian Processes for Human Tracking and Action Classification <i>Leonid Raskin, Ehud Rivlin and Michael Rudzsky</i>
12:30-14:00	<i>Lunch (on your own)</i>	

14:00-15:00	Keynote: Kwan-Liu Ma , University of California at Davis (Sand Harbor II)		
Parallel Sessions			
15:00-17:30	ST4: Algorithms for the Understanding Of Dynamics and Complex and Cluttered Scenes Chairs: Paolo Remagnino (Sand Harbor II)	Visualization I Chairs: Tom Malzbender (Tahoe B)	
	15:00	Follow the Beat? Understanding Conducting Gestures from Video <i>Andrea Salgian, Micheal Pfirrmann and Teresa M. Nakra</i>	An anti-aliasing technique for voxel-based massive model visualization strategies <i>Gustavo N. Wagner, Alberto Raposo, and Marcelo Gattass</i>
	15:20	A quantitative comparison of two new motion estimation algorithms <i>B.Zhan, P.Remagnino, S.A.Velastin, N.Monekosso, and L-Q.Xu</i>	Photo-Realistic Depth-of-Field Effects Synthesis Based on Real Camera Parameters <i>Huei-Yung Lin and Kai-Da Gu</i>
	15:40	A Binary Decision Tree Based Real-Time Emotion Detection System <i>Adam Livingston, Ming-Jung Seow, and Vijayan K. Asari</i>	Anisotropic Potential Field Maximization Model for Subjective Contour from Line Figure <i>Osamu Hirose and Tomoharu Nagao</i>
16:00-16:30	<i>Coffee Break</i>		
	16:30	Building Petri Nets from Video Event Ontologies <i>Gal Lavee, Artyom Borzin, Ehud Rivlin, and Michael Rudzsky</i>	Surface Reconstruction from Constructive Solid Geometry for Interactive Visualization <i>Doug Baldwin</i>
	16:50	Feature-Adaptive Motion Energy Analysis for Facial Expression Recognition <i>Sungkyu Noh, Hanhoon Park, Yoonjong Jin, and Jong-Il Park</i>	Interactive Glyph Placement for Tensor Fields <i>Mario Hlawitschka and Gerik Scheuermann and Bernd Hamann</i>
	17:10	Boosting with temporal consistent learners: an application to human activity recognition <i>Pedro Canotilho Ribeiro, Plinio Moreno and Jose Santos-Victor</i>	Tensor Lines in Tensor Fields of Arbitrary Order <i>Mario Hlawitschka et al.</i>
15:00-17:30	Computer Vision Applications Chair: Darko Koracin (Tahoe A)	Calibration/Reconstruction Chair: Jeffrey Mulligan (Tahoe C-D)	
	15:00	Image Compression Using Data-dependent Triangulations <i>Burkhard Lehner, Georg Umlauf, and Bernd Hamann</i>	Robust Self-Calibration From Single Image Using RANSAC <i>Qi Wu, Te-Chin Shao, Tsuhan Chen</i>
	15:20	Unsynchronized 4D Barcodes <i>Tobias Langlotz and Oliver Bimber</i>	Contour Matching in Omnidirectional Images <i>Yongho Hwang, Jaeman Lee, and Hyunki Hong</i>
	15:40	A Control Architecture for Long-Term Autonomy of Robotic Assistants <i>Christopher King, Xavier Palathingal, Monica Nicolescu, and Mircea Nicolescu</i>	A Progressive Edge-Based Stereo Correspondence Method <i>Xiaoyuan Su and Taghi M. Khoshgoftaar</i>
16:00-16:30	<i>Coffee Break</i>		
	16:30	Classification of Structural Cartographic Objects Using Edge-based Features <i>Guray Erus and Nicolas Lomenie</i>	Creating Stereoscopic (3D) Video from a 2D Monocular Video Stream <i>Xiaokun Li, Roger Xu, Jin Zhou, and Baoxin Li</i>
	16:50	Determining atmospheric dust concentrations during strong flow perturbations using a digital-optical technique <i>J. McAlpine, D. Koracin, K. Veropoulos, D. Boyle, E. McDonald, and G. Lamorey</i>	3D Shape Recovery by the use of Single Image plus Simple Pattern Illumination <i>Zhan Song and Ronald Chung</i>
	17:10	Visual print quality evaluation using computational features <i>Tuomas Eerola, Joni-Kristian Kamarainen, Lasse Lensu and Heikki Kalviainen</i>	Reliable Depth Map Regeneration via a Novel Omnidirectional Stereo Sensor <i>Lei He, Chuanjiang Luo, Yanfeng Geng, Feng Zhu, and Yingming Hao</i>
18:30-21:30	<i>Reception(Sand Harbor III)</i>		

Tuesday, November 27th

07:30-09:00	<i>Breakfast (Sand Harbor III)</i>	
09:00-10:00	<i>Keynote: John Tsostos, York University (Sand Harbor II)</i>	
	Parallel Sessions	
10:00-12:30	ST1: Intelligent Algorithms for Smart Monitoring of Complex Environments Chairs: Yunqian Ma (Sand Harbor II)	Face Reconstruction and Processing Chair: Mircea Nicolescu (Tahoe B)
	10:00	Comparison of Techniques for Mitigating the Effects of Illumination Variations on the Appearance of Human Targets <i>C. Madden, d M. Piccardi and S. Zuffi</i>
	10:20	Scene Context Modeling for Foreground Detection from a Scene in Remote Monitoring <i>Liyuan Li, Xinguo Yu, and Weimin Huang</i>
	10:40	Recognition of Household Objects by Service Robots through Interactive and Autonomous Methods <i>Al Mansur, Katsutoshi Sakata and Yoshinori Kuno</i>
11:00-11:30	<i>Coffee Break</i>	
	11:30	Motion Projection for Floating Object Detection <i>Zhao-Yi Wei, Dah-Jye Lee, David Jilk, and Robert Schoenberger</i>
	11:50	Real-Time Subspace-Based Background Modeling Using Multi-Channel Data <i>Bohyung Han and Ramesh Jain</i>
	12:10	A Vision-Based Architecture for Intent Recognition <i>Alireza Tavakkoli, Richard Kelley, Christopher King, Mircea Nicolescu, Monica Nicolescu and George Bebis</i>
10:00-12:30	ST2: Object Recognition Chair: Andrea Salgian/Fabien Scalzo (Tahoe A)	(Tahoe C-D)
	10:00	Fast Codebook Generation by Sequential Data Analysis for Object Classification <i>Alexandra Teynor and Hans Burkhardt</i>
	10:20	Iris Recognition: An Entropy-Based Coding Strategy Robust to Noisy Imaging Environments <i>Hugo Proença and Luís A. Alexandre</i>
	10:40	Radial Edge Configuration for Semi-Local Image Structure Description <i>Lech Szumilas, Horst Wildenauer, Allan Hanbury, and Rene Donner</i>
11:00-11:30	<i>Coffee Break</i>	
	11:30	Learning 3D Object Recognition from an Unlabelled and Unordered Training Set <i>Raimund Leitner</i>
	11:50	Is Pinocchio's Nose Long or His Head Small? Learning Shape Distances for Classification <i>Daniel Gill, Yaacov Ritov and Gideon Dror</i>
	12:10	Probabilistic Combination of Visual Cues for Object Classification <i>Roman Filipovych and Eraldo Ribeiro</i>
12:30-14:00	<i>Lunch (on your own)</i>	

14:00-15:30	<i>Poster Session (Sand Harbor II)</i>	
	Parallel Sessions	
15:30-17:30	Shape/Motion/Tracking Chair: Dorothy Monekosso (Sand Harbor II)	Virtual Reality II Chair: Andre Hinkenjan (Tahoe B)
	15:30 Hill Climbing Algorithm for Random Sample Consensus Methods <i>Timo Pylvanainen and Lixin Fan</i>	Skeleton-Based Data Compression for Multi-Camera Tele-immersion System <i>Jyh-Ming Lien, Gregorij Kurillo, and Ruzena Bajcsy</i>
	15:50 FPGA Implementation of a Feature Detection and Tracking Algorithm for Real-time Applications <i>Beau Tippetts, Spencer Fowers, Kirt Lillywhite, Dah-Jye Lee and James Archibald</i>	A CUDA-Supported Approach to Remote Rendering <i>Stefan Lietsch and Oliver Marquardt</i>
16:10-16:30	<i>Coffee Break</i>	
	16:30 Utilizing Semantic Interpretation of Junctions for 3D-2D Pose Estimation <i>Florian Pilz, Yan Shi, Daniel Grest, Nicolas Pugeault, Sinan Kalkan, and Norbert Kruger</i>	Dynamic Balance Control Following Disturbance of Virtual Humans <i>Cyrille Collette, Alain Micaelli, Pierre Lemerle and Claude Andriot</i>
	16:50 Shape from Texture of Developable Surfaces via Fourier Analysis <i>Fabio Galasso and Joan Lasenby</i>	Haptic Exploration of Mathematical Knots <i>Hui Zhang, Sidharth Thakur and Andrew J. Hanson</i>
	17:10 Neural networks for exudate detection in retinal images <i>Gerald Schaefer and Edmond Leung</i>	Fitting the world to the mind: Transforming images to mimic perceptual adaptation <i>Michael A. Webster, Kyle McDermott, and George Bebis</i>
15:30-17:30	Computer Graphics II Chair: Matt Berger (Tahoe A)	(Tahoe C-D)
	15:30 A Framework for Exploring High-Dimensional Geometry <i>Sidharth Thakur and Andrew J. Hanson</i>	X
	15:50 Efficient and Realistic Cumulus Cloud Simulation based on Similarity Approach <i>Be Wang, Jingliang Peng, Youngmin Kwak and C.-C. Jay Kuo</i>	
16:10-16:30	<i>Coffee Break</i>	
	16:30 Six Degrees of Freedom Incremental Occlusion Horizon Culling Method for Urban Environments <i>Gurkan Koldas, Veysi Isler and Rynson W.H.Lau</i>	X
	16:50 Wavelet-Based Stratified Irradiance Caching for Efficient Indirect Illumination <i>Matt Berger and Lijun Yin</i>	
	17:10 Direct Extraction of Normal Mapped Meshes from Volume Data <i>Mark Barry and Zoe Wood</i>	
18:30-21:30	<i>Banquet Dinner (Sand Harbor III)</i> Keynote: Mubarak Shah, University of Central Florida	

Wednesday, November 28th

07:30-09:00	<i>Breakfast (Sand Harbor III)</i>	
09:00-10:00	<i>Keynote: Dimitris Metaxas, Rutgers University (Sand Harbor II)</i>	
	Parallel Sessions	
10:00-12:30	Motion and Tracking II Chair: Yoshinori Kuno (Sand Harbor II)	Segmentation/Feature Extraction/Classification Chair: George Bebis (Tahoe B)
	10:00 Visible and Infrared Sensors Fusion by Matching Feature Points of Foreground Blobs <i>Pier-Luc St-Onge and Guillaume-Alexandre Bilodeau</i>	A New Set of Normalized Geometric Moments Based on Schlick's Approximation <i>Ramakrishnan Mukundan</i>
	10:20 Multiple Combined Constraints for Optical Flow Estimation <i>Ahmed Fahad and Tim Morris</i>	Image and Volume Segmentation by Water Flow <i>Xin U. Liu and Mark S. Nixon</i>
	10:40 Combining Models of Pose and Dynamics for Human Motion Recognition <i>Roman Filipovych and Eraldo Ribeiro</i>	A Novel Hierarchical Technique for Range Segmentation of Large Building Exteriors <i>Reyhaneh Hesami, Alireza Bab-Hadiashar, and Reza Hosseinnezhad</i>
11:00-11:30	<i>Coffee Break</i>	
	11:30 Optical Flow and Total Least Squares Solution for Multi-Scale Data in an Over-determined System <i>Homa Fashandi, Reza Fazel-Rezai, Stephen Pistorius</i>	Lip Contour Segmentation Using Kernel Methods and Level Sets <i>A.Khan, W.Christmas and J.Kittler</i>
	11:50 A Hardware-Friendly Adaptive Tensor Based Optical Flow Algorithm <i>Zhao-Yi Wei, Dah-Jye Lee, and Brent E. Nelson</i>	A Robust Two level Classification algorithm for Text Localization in Printed documents <i>Kandan R, Nirup Kumar Reddy, Arvind KR, AG Ramakrishnan</i>
	12:10	Image Classification from Small Sample, with Distance Learning and Feature Selection <i>Daphna Weinshall and Lior Zamir</i>
10:00-12:30	Visualization II Chair: Jose Malpica (Tahoe A)	(Tahoe C-D)
	10:00 A GPU Framework for the Visualization and On-the-fly Amplification of Real Terrains <i>Yacine Amara, Sylvain Meunier and Xavier Marsault</i>	
	10:20 Visualization of Resource Allocation in Large-Scale Mobile Ad Hoc Networks <i>Alex Fridman, Dan Hennessey, David Breen, Steven Weber and Moshe Kam</i>	
	10:40 A Scalable Aural-Visual Environment for Security Event Monitoring, Analysis, and Response <i>Paul Z. Kolano</i>	
11:00-11:30	<i>Coffee Break</i>	
	11:30 Complexity Analysis for Information Visualization Design and Evaluation <i>Ying Zhu, Xiaoyuan Suo, and G. Scott Owen</i>	
	11:50 SketchSurfaces: Sketch-Line Initialized Deformable Surfaces for Efficient and Controllable Interactive 3D Medical Image Segmentation <i>Meisam Aliroteh and Tim McInerney</i>	
	12:10 Iterative Methods for Visualization of Implicit Surfaces on GPU <i>Rodrigo de Toledo, Bruno Levy and Jean-Claude Paul</i>	
12:30-14:00	<i>Lunch (on your own)</i>	

14:00-15:00	<i>Keynote: Fatih Porikli, Mitsubishi Electric Research Laboratories (MERL) (Sand Harbor II)</i>	
	Parallel Sessions	
15:00-17:30	Shape/Recognition Chair: Chris Madden (Sand Harbor II)	ST3: Image Databases Chair: Sanjiv Bhatia (Tahoe B)
	15:00 Combinatorial Shape Decomposition <i>Ralf Juengling, Melanie Mitchell</i>	Content-Based Image Retrieval using Shape and Depth from an Engineering Database <i>Amit Jain, Ramanathan Muthuganapathy and Karthik Ramani</i>
	15:20 Rotation-invariant Texture Recognition <i>Javier A. Montoya-Zegarra, Joao P. Papa, Neucimar J. Leite, Ricardo da Silva Torres and Alexandre X. Falcao</i>	RISE-SIMR: A Robust Image Search Engine for Satellite Image Matching and Retrieval <i>Sanjiv K. Bhatia, Ashok Samal and Prasanth Vadlamani</i>
	15:40 Image Segmentation that optimizes Global Homogeneity in a Variational Framework <i>Wei Wang and Ronald Chung</i>	Automatic image representation for content-based access to personal photo album <i>Edoardo Ardizzone, Marco La Cascia and Filippo Vella</i>
16:00-16:30	<i>Coffee Break</i>	
	16:30 Shape Evolution Driven by a Perceptually Motivated Measure <i>Sergej Lewin, Xiaoyi Jiang, and Achim Clausing</i>	Geographic Image Retrieval Using Interest Point Descriptors <i>Shawn Newsam and Yang Yang</i>
	16:50 The Global-Local transformation for invariant shape representation <i>Konstantinos A. Raftopoulos, Stefanos D. Kollias</i>	
	17:10 A Vision System for Recognizing Objects in Complex Real Images <i>Mohammad Reza Daliri, Walter Vanzella, and Vincent Torre</i>	
15:00-17:30	ST6: Soft Computing in Image Processing and Computer Vision Chair: Fabien Scalzo (Tahoe A)	(Tahoe C-D)
	15:00 Feed Forward Genetic Image Network: Toward Efficient Automatic Construction of Image Processing Algorithm <i>Shinichi Shirakawa and Tomoharu Nagao</i>	X
	15:20 Learning to Recognize Complex Actions Using Conditional Random Fields <i>Christopher I. Connolly</i>	
	15:40 Kernel Fusion for Image Classification Using Fuzzy Structural Information <i>Emanuel Aldea, Geoffroy Fouquier, Jamal Atif and Isabelle Bloch</i>	
16:00-16:30	<i>Coffee Break</i>	
	16:30 A Genetic Approach to Training Support Vector Data Descriptors for Background Modeling in Video Data <i>Alireza Tavakkoli, Amol Ambardekar, Mircea Nicolescu and Sushil Louis</i>	X
	16:50 Video Sequence Querying Using Clustering of Objects' Appearance Models <i>Yunqian Ma, Ben Miller and Isaac Cohen</i>	
	17:10	
	See you at ISVC08 ☺	

Poster Session (Sand Harbor II)

Tuesday, November 27th (2:00pm-3:30pm)

Intrinsic Images by Fisher Linear Discriminant <i>Qiang He and Chee-Hung Henry Chu</i>
Shape-from-Shading Algorithm for Oblique Light Source <i>Osamu Ikeda</i>
Pedestrian Tracking from a Moving Host using Corner Points <i>Mirko Meuter, Dennis Muller, Stefan Muller-Schneiders, Uri Iurgel, Su-Birm Park and Anton Kummert</i>
3D Reconstruction and Pose Determination of the Cutting Tool from a Single View <i>Xi Zhanga, Xiaodong Tiana, Kazuo Yamazakia, Makoto Fujishimab</i>
Playfield and Ball Detection in Soccer Video <i>Junqing Yu, Yang Tang, Zhifang Wang, Lejiang Shi</i>
Single-View Matching Constraints <i>Klas Nordberg</i>
A 3D Face Recognition Algorithm Based on Nonuniform Re-sampling Correspondence <i>Yanfeng Sun, Jun Wang and Baocai Yin</i>
A Novel Approach for Storm Detection Based on 3-D Radar Image Data <i>Lei Han, Hong-Qing Wang, Li-Feng Zhao, Sheng-Xue Fu</i>
Retinal Spot Lesion Detection Using Adaptive Multiscale Morphological Processing <i>Xin Zhang and Guoliang Fan</i>
A New Approach for Vehicle Detection in Congested Traffic Scenes Based on Strong Shadow Segmentation <i>Adeli Mosabbeeb, Maryam Sadeghi, Mahmoud Fathy</i>
A Robust Method for Near Infrared Face Recognition Based on Extended Local Binary Pattern <i>Di Huang, Yunhong Wang, Yiding Wang</i>
Surface Signature-Based Method for Modeling and Recognizing Free-Form Objects <i>H.B. Darbandi, M.R. Ito and J. Little</i>
Integrating Vision and Language: Semantic Description of Traffic Events from Image Sequences <i>Takashi Hirano, Shogo Yoneyama, Yasuhiro Okada</i>
Rule-Based Multiple Object Tracking for Traffic Surveillance Using Collaborative Background Extraction <i>Xiaoyuan Su, Taghi M. Khoshgoftaar, Xingquan Zhu, and Andres Folleco</i>
A Novel Approach for Iris Recognition using Local Edge Patterns <i>Jen-Chun Lee, Ping S. Huang, Chien-Ping Chang and Te-Ming Tu</i>
Automated Trimmed Iterative Closest Point Algorithm <i>Synave, R. and Desbarats, P. and Gueorguieva, S.</i>
Classification of high resolution satellite images using texture from the panchromatic band <i>María C. Alonso, María A. Sanz and José A. Malpica</i>
Deriving A Priori Co-occurrence Probability Estimates for Object Recognition from Social Networks and Text Processing <i>Guillaume Pitel, Christophe Millet, and Gregory Grefenstette</i>
3D Face Reconstruction under Imperfect Tracking Circumstances using Shape Model Constraints <i>H. Fang and N. P. Costen</i>

Poster Session (cont'd)

Tuesday, November 27th (2:00pm – 3:30pm)

<p>A Combined Statistical-Structural Strategy for Alphanumeric Recognition <i>N. Thome and A. Vacavant</i></p>
<p>The Multiplicative Path toward Prior-Shape Guided Active Contour for Object Detection <i>Wei Wang and Ronald Chung</i></p>
<p>On Shape-Mediated Enrolment in Ear Biometrics <i>Banafshe Arbab-Zavar, Mark S. Nixon</i></p>
<p>Determining efficient Scan-Patterns for 3-D Object Recognition using Spin Images <i>Stephan Matzka, Yvan R. Petillot and Andrew M. Wallace</i></p>
<p>A Comparison of Fast Level Set-like Algorithms for Image Segmentation in Fluorescence Microscopy <i>Martin Maska, Jan Hubeny, David Svoboda and Michal Kozubek</i></p>
<p>Texture-Based Objects Recognition for Vehicle Environment Perception using a Multiband Camera <i>SangUn Yousun Kang, Kiyosumi Kidono, Yoshikatsu Kimura and Yoshiki Ninomiya</i></p>
<p>Object Tracking via Uncertainty Minimization <i>Albert Akhriev</i></p>
<p>Detection of a Speaker in Video by Combined Analysis of Speech Sound and Mouth Movement <i>Osamu Ikeda</i></p>
<p>Extraction of cartographic features from a high resolution satellite image <i>José A. Malpica, Juan B. Mena, Francisco J. González-Matesanz</i></p>
<p>Expression Mimicking : from 2D Monocular Sequences to 3D Animations <i>Charlotte Ghys, Maxime Taron, Nikos Paragios, Nikos Komodakis and Benedicte Bascle</i></p>
<p>Object Recognition: A Focused Vision Based Approach <i>Noel Trujillo, Roland Chapuis, Frederic Chausse, and Michel Naranjo</i></p>
<p>A Robust Image Segmentation Model based on Integrated Square Estimation <i>Shuisheng Xie, Jundong Liu, Darlene Berryman, Edward List, Charles Smith and Hima Chebrolu</i></p>
<p>Measuring Effective Data Visualization <i>Ying Zhu</i></p>
<p>Automatic Inspection of Tobacco Leaves Based on MRF Image Model <i>Yinhui Zhang, Yunsheng Zhang, Zifen He and Xiangyang Tang</i></p>
<p>A Mesh Meaningful Segmentation Algorithm Using Skeleton and Minima-rule <i>Zhi-Quan Cheng, Kai Xu, Bao Li, Yan-Zhen Wang, Gang Dang, Shi-Yao Jin</i></p>
<p>Fast kd-Tree Construction for 3D-rendering Algorithms like Ray Tracing <i>Sajid Hussain and Håkan Grahñ</i></p>
<p>Phase Space Rendering <i>Andre Hinkenjann and Thorsten Roth</i></p>
<p>Automatic Extraction of a Quadrilateral Network of NURBS Patches From Range Data Using Evolutionary Strategies <i>John William Branch, Flavio Prieto and Pierre Boulanger</i></p>
<p>ChipViz: Visualizing Memory Chip Test Data <i>Amit P. Sawant, Ravi Raina and Christopher G. Healey</i></p>

Poster Session (cont'd)

Tuesday, November 27th (2:00pm – 3:30pm)

Enhanced Visual Experience and Archival Reusability in Personalized Search Based on Modified Spider Graph <i>Dhruba J. Baishya</i>
Probe-It! Visualization Support for Provenance <i>Nicholas Del Rio and Paulo Pinheiro da Silva</i>
Portable Projection-Based AR System <i>Jihyun Oh, Byung-Kuk Seo, Moon-Hyun Lee, Hanhoon Park, Jong-Il Park</i>
Adaptive Chrominance Correction for a Projector Considering Image and Screen Color <i>Sun Hee Park, Sejung Yang and Byung-Uk Lee</i>
Easying MR Development with Eclipse and InTml <i>Pablo Figueroa and Camilo Florez</i>
Unsupervised Intrusion Detection Using Color Images <i>Grant Cermak and Karl Keyzer</i>
Pose Sampling for Efficient Model-Based Recognition <i>Clark F. Olson</i>
Video Segmentation for Markerless Motion Capture in Unconstrained Environments <i>Martin Côté, Pierre Payeur, Gilles Comeau</i>
Hardware-Accelerated Volume Rendering for Real-Time Medical Data Visualization <i>Rui Shen and Pierre Boulanger</i>
Fuzzy Morphology for Edge Detection and Segmentation <i>Atif Bin Mansoor, Ajmal S Mian, Adil Khan and Shoab A Khan</i>

Steering Committee

George Bebis, University of Nevada, Reno, USA
Richard Boyle, NASA Ames Research Center, USA
Bahram Parvin, Lawrence Berkeley National Laboratory, USA
Darko Koracin, Desert Research Institute, USA

Area Chairs

- *Computer Vision*
Paragios Nikos, Ecole Centrale de Paris , France
Syeda-Mahmood Tanveer, IBM Almaden, USA
- *Computer Graphics*
Ju Tao, Washington University, USA
Liu Zicheng, Microsoft, USA
- *Virtual Reality*
Coquillart Sabine, INRIA, France
Cruz-Neira Carolina, Louisiana Immersive Technologies Enterprise, USA
- *Visualization*
Möller Torsten, Simon Fraser University, Canada
Tom Malzbender, Hewlett Packard Labs, USA

Publicity

Li Wenjing, STI Medical Systems, USA

Local Arrangements

Konstantinos Veropoulos, Desert Research Institute, USA

Publications

Junxian Wang, UtopiaCompression, USA

International Program Committee

(Area 1) Computer Vision

- Abidi Bisma, University of Tennessee, USA
- Aggarwal J. K., University of Texas, Austin, USA
- Agouris Peggy, George Mason University, USA
- Anagnostopoulos George, Florida Institute of Technology, USA
- Argyros Antonis, University of Crete, Greece
- Asari Vijayan, Old Dominion University, USA
- Basu Anup, University of Alberta, Canada
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- Belyaev Alexander, Max-Planck-Institut fuer Informatik, Germany
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- Mathieu Desbrun, California Institute of Technology, USA
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