



2nd International Symposium on

Visual Computing

Lake Tahoe, Nevada

Nov 6-8, 2006

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Final Program

2nd International Symposium on Visual Computing (ISVC06)

November 6-8, 2006, Lake Tahoe, Nevada, USA

Symposium Overview

	Monday 6 th	Tuesday 7 th	Wednesday 8 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 5th: 2:30pm-6:30pm
Monday 6th – Wednesday 8th: 8:00am – 5:00pm
Symposium Reception: Monday 6th: 7pm – 9:30pm (Sand Harbor III)
Banquet Dinner and Keynote: Tuesday 7th: 6:30pm – 10pm (Sand Harbor III)

* Poster session runs from 14:00pm to 15:30pm (see page 6)

Monday, November 6th

07:30-09:00	Breakfast (Sand Harbor III)	
09:00-10:00	Keynote: Carolina Cruz-Neira, University of Louisiana at Lafayette (Sand Harbor II)	
Parallel Sessions 1&2		
10:00-12:30	Segmentation, Tracking, and Recognition I Chair: Ara Nefian (Sand Harbor II)	Virtual Reality Chair: Jiri Zara (Tahoe C)
	10:00	Real-Time and Robust Monocular SLAM Using Predictive Multi-resolution Descriptors <i>Denis Chekhlov, Mark Pupilli, Walterio Mayol-Cuevas and Andrew Calway</i>
	10:20	Object Recognition Using Local Descriptors: A Comparison <i>Andrea Salgian</i>
	10:40	Integration of Multiple Methods for Class and Specific Object Recognition <i>Al Mansur, Md. Altab Hossain, and Yoshinori Kuno</i>
		A Mobile Low-Cost Motion Capture System Based on Accelerometers <i>Jan-Phillip Tiesel and Jorn Loviscach</i>
		Markerless Pose Tracking for Augmented Reality <i>Chunrong Yuan</i>
		Towards a Modular Network-Distributed Mixed-Reality Learning Space System <i>Timothy J. Rogers, Bedrich Benes, and Gary R. Bertoline</i>
11:00-11:30	Coffee Break	
	11:30	Segmentation of triangular meshes using multi-scale normal variation <i>Kyungha Min and Moon-Ryul Jung</i>
	11:50	Finite Sample Bias of Robust Scale Estimators in Computer Vision Problems <i>Reza Hoseinnezhad, Alireza Bab-Hadiashar and David Suter</i>
	12:10	Perceptual Grouping Based on Iterative Multi-Scale Tensor Voting <i>L. Loss, G. Bebis, M. Nicolescu, and A. Skourikhine</i>
		Effects of Layer Partitioning in Collaborative 3D Visualizations <i>Lars Winkler Pettersson, Andreas Kjellin, Mats Lind and Stefan Seipel</i>
		Light Simulation in a Distributed Driving Simulator <i>Stefan Lietsch, Henning Zabel, Martin Eikermann, Veit Wittenberg and Jan Berssenbrugge</i>
		Physically Interacting with Four Dimensions <i>Hui Zhang and Andrew J. Hanson</i>
Parallel Sessions 3&4		
10:00-12:30	Rendering Chair: Valerio Pascucci (Tahoe A-B)	Visualization I Chair: Tom Malzbender (Tahoe D)
	10:00	Adaptive Real-Time Rendering for Large-Scale Molecular Models <i>Jun Lee, Sungjun Park, and Jee-In Kim</i>
	10:20	An Efficient Photon Mapping Algorithm for Rendering Light-Emitting Fluids <i>Kyungha Min</i>
	10:40	Rendering dynamic real-world scenes using Image Spheres <i>Stephan Behrendt</i>
		Trifocal Transfer Based Novel View Synthesis for Micromanipulation <i>Julien Bert, Sounkalo Dembee, and Nadine Lefort-Piat</i>
		Viewpoint Selection for Angiographic Volume <i>Ming-Yuen Chan, Huamin Qu, Yingcai Wu, and Hong Zhou</i>
		GPU Accelerated Isosurface Extraction on Tetrahedral Grids <i>Luc Buatois, Guillaume Caumon, and Bruno Levy</i>
11:00-11:30	Coffee Break	
	11:30	Real-time Rendering of Light Shafts on GPU <i>Shuyi Chen, Sheng Li, and Guoping Wang</i>
	11:50	Real-time GPU-based Simulation of Dynamic Terrain <i>Anthony S. Aquilio, Jeremy C. Brooks, Ying Zhu, and G. Scott Owen</i>
	12:10	Physically-based Real-Time Diffraction Using Spherical Harmonics <i>Clifford Lindsay and Emmanuel Agu</i>
		Improving Brightness for a Multi-projector Display Considering Image Content <i>Hee-Won Lee, and Byung-Uk Lee</i>
		Combining Pixelization and Dimensional Stacking <i>John T. Langton, Astrid A. Prinz and Timothy J. Hickey</i>
		Creating Multi-Layered 3D Images Using Reversible Jump MCMC algorithms <i>Sergio Hernandez-Marin, Andrew M. Wallace and Gavin J. Gibson</i>
12:30-14:00	Lunch (on your own)	

14:00-15:00	<i>Keynote: Eli Peli, Harvard Medical School (Sand Harbor II)</i>	
	Parallel Sessions 5&6	
15:00-17:30	ST4: Biomedical Image Analysis Chairs: Ioannis Kakadiaris/Tao Ju (Sand Harbor II)	ST6: Visual Computing and Biological Vision Chairs: Jeff Mulligan/Michael Webster (Tahoe C)
	15:00 Simulation of Diabetic Retinopathy Neovascularization in Color Digital Fundus Images <i>Xinyu Xu, Baoxin Li, Jose F. Florez, Helen K. Li</i>	Fusing individual algorithms and humans improves face recognition accuracy <i>Alice J. O'Toole, Fang Jiang, Herve Abdi and P. Jonathon Phillips</i>
	15:20 Flexible Segmentation and Smoothing of DT-MRI Fields through a Customizable Structure Tensor <i>Thomas Schultz, Bernhard Burgeth, and Joachim Weickert</i>	A Method for the Automatic Analysis of Colour Category Pixel Shifts During Dichromatic Vision <i>Mike Bennett and Aaron Quigley</i>
	15:40 A Novel 3D Statistical Shape Model for Segmentation of Medical Images <i>Zheen Zhao and Eam Khwang Teoh</i>	What can we learn from biological vision studies for human motion segmentation? <i>Cheng Chen and Guoliang Fan</i>
16:00-16:30	<i>Coffee Break</i>	
	16:30 GPU-based Active Contour Segmentation using Gradient Vector Flow <i>Zhiyu He and Falko Kuester</i>	Optic flow integration at multiple spatial frequencies - neural mechanism and algorithm <i>Cornelia Beck, Pierre Bayerl and Heiko Neumann</i>
	16:50 Segmentation of Three Dimensional Cell Culture Models from a Single Focal Plane <i>Hang Chang and Bahram Parvin</i>	
	17:10 3D Surface Reconstruction and Registration for Image Guided Medialization Laryngoplasty <i>Ge Jin, Sang-Joon Lee, James K. Hahn, Steven Bielamowicz, Rajat Mittal and Raymond Walsh</i>	
	Parallel Sessions 7&8	
15:00-17:30	ST5: Understanding and Imitating Nature: Analysis, Interpretation, Rendering and Inspiration of Biological Forms Chair: Paolo Remagnino (Tahoe A-B)	ST2: Multimodal Data Understanding and Visualization for Industrial Applications Chairs: Fatih Porikli/Andrea Cavallaro (Tahoe D)
	15:00 A Critical Appraisal of the Box Counting Method to Assess the Fractal Dimension of Tree Crowns <i>D. Da Silva, F. Boudon, C. Godin, O. Puech, C. Smith and H. Sinoquet</i>	Layout of Multiple Views for Volume Visualization: A User Study <i>Daniel Lewis, Steve Haroz, Kwan-Liu Ma</i>
	15:20 Active Stabilization of Images Acquired on a Walking Robotic Platform <i>Xander Twombly, Richard Boyle, and Silvano Colombano</i>	A Multi-Modal Interface for Road Planning Tasks using Vision, Haptics and Sound <i>Matt Newcomb and Chris Harding</i>
	15:40 Venation Pattern Analysis of Leaf Images <i>James Clarke, Sarah Barman, Paolo Remagnino, Ken Bailey, Don Kirkup, Simon Mayo, and Paul Wilkin</i>	Semantically Relevant Image Retrieval by Combining Image and Linguistic Analysis <i>Tony Lam and Rahul Singh</i>
16:00-16:30	<i>Coffee Break</i>	
	16:30 3D Segmentation of Mammospheres from Imaging Assays <i>Ju Han, Hang Chang, Qing Yang, Mary Helen Barcellos-Hoff and Bahram Parvin</i>	Networked Heterogeneous Camera System for High Resolution Face Images <i>Sofiane Yous, Abdelaziz Khat, Masatsugu Kidode, and Tsukasa Ogasawara</i>
	16:50 Detection and Characterization of Abnormal Vascular Patterns in Automated Cervical Image Analysis <i>Wenjing Li and Allen Poirson</i>	Autonomous Vehicle Video Aided Navigation – Coupling INS and Video Approaches <i>Chris Baker, Chris Debrunner, Sean Gooding, William Hoff, William Severson</i>
	17:10 An Experiential Approach to Interacting with Biological Information <i>Naureen Moon, Bibek Dev Bhattarai, Rahul Singh</i>	Sensor Fusion Based Obstacle Detection/Classification for Active Pedestrian Protection System <i>Ho Gi Jung, Yun Hee Lee, Pal Joo Yoon, In Yong Hwang, Jaihie Kim</i>
19:00-21:30	<i>ISVC06 Reception(Sand Harbor III)</i>	

Tuesday, November 7th

07:30-09:00	<i>Breakfast (Sand Harbor III)</i>	
09:00-10:00	<i>Keynote: Daniel DeMenthon, National Science Foundation (Sand Harbor II)</i>	
Parallel Sessions 1&2		
10:00-12:30	ST1: Intelligent Environments: Algorithms and Applications Chairs: Guoliang Fan/Yunqian Ma (Sand Harbor II)	Calibration, Stereo, and Reconstruction Chair: Kenneth Tobin (Tahoe C)
10:00	Multiple Hypothesis Target Tracking using Merge and Split of Graph's Nodes <i>Yunqian Ma, Qian Yu, Isaac Cohen</i>	Graph-based Multi-Resolution Temporal-based Face Reconstruction <i>Charlotte Ghys, Nikos Paragios and Benedicte Bascle</i>
10:20	Real-Time Multi-View 3D Object Tracking in Cluttered Scenes <i>Huan Jin, Gang Qian, Stejepan Rajko</i>	3D Geometry from Uncalibrated Images <i>G. Kamberov, G. Kamberova, O. Chum, S. Obdrzalek, D. Martinec, J. Kostkova, T. Pajdla, J. Matas and R. Sara</i>
10:40	Tracking of Individuals in Very Long Video Sequences <i>P. Fihl, R. Corlin, S. Park, T.B. Moeslund, and M.M. Trivedi</i>	Feature correspondences From Multiple Views of Coplanar Ellipses <i>C. Barat, J.F Menudet, H. Louhichi, T. Fournel</i>
11:00-11:30	<i>Coffee Break</i>	
11:30	Motion Estimation with Edge Continuity Constraint for Crowd Scene Analysis <i>B. Zhan, P. Remagnino, S.A. Velastin, N. Monekosso, and L-Q.Xu</i>	Lateral and Depth Calibration of PMD-Distance Sensors <i>Marvin Lindner and Andreas Kolb</i>
11:50	A Novelty Detection Approach for Foreground Region Detection in Videos with Quasi-stationary Backgrounds <i>A. Tavakkoli, M. Nicolescu and G. Bebis</i>	A Domain Reduction Algorithm for Incremental Projective Reconstruction <i>Rafael Lemuz-Lopez and Miguel Arias-Estrada</i>
12:10	Auto-Focusing in Extreme Zoom Surveillance: A System Approach with Application to Faces <i>Y. Yao, B. Abidi, M. Tousek, and M. Abidi</i>	A High-speed Parallel Architecture for Stereo Matching <i>Sungchan Park and Hong Jeong</i>
Parallel Sessions 3&4		
10:00-12:30	Computer Graphics I Chair: Lijun Yin (Tahoe A-B)	ST8: Discrete and Computational Geometry and Their Applications in Visual Computing I Chair: Reneta Barneva (Tahoe D)
10:00	Issues and Implementation of C1 and C2 Natural Neighbor Interpolation <i>T. Bobach, M. Bertram, G. Umlauf</i>	History Trees as Descriptors of Macromolecular Structures <i>Deniz Sarioz, T. Yung Kong and Gabor T. Herman</i>
10:20	Constrained Delaunay Triangulation Using Delaunay Visibility <i>Yi-Jun Yang, Hui Zhang, Jun-Hai Yong, Wei Zeng, Jean-Claude Paul and Jianguang Sun</i>	Combinatorial pyramids and discrete geometry for energy-minimizing segmentation <i>Martin Braure de Calignon, Luc Brun and Jacques-Olivier Lachaud</i>
10:40	Efficient Motion Search in Large Motion Capture Databases <i>Yi Lin</i>	Arithmetic Discrete Parabolas <i>I. Debled-Rennesson, E. Domenjoud, D. Jamet</i>
11:00-11:30	<i>Coffee Break</i>	
11:30	CPU-GPU multithreaded programming model: Application to the Path tracing with next event estimation algorithm <i>Christophe Cassagnabere, Franccois Rousselle, Christophe Renaud</i>	Shape Reconstruction by Line Voting in Discrete Space <i>Kosuke Sato, Atsushi Imiya, Tomoya Sakai</i>
11:50	Fusing Features in Direct Volume Rendered Images <i>Y. Wu, H. Qu, H. Zhou, and M.Y. Chan</i>	Dynamic Reconstruction of Complex Objects on Irregular Isothetic Grids <i>Antoine Vacavant, David Coeurjolly and Laure Tougne</i>
12:10	Generating and Updating Textures for a Large-Scale Environment <i>Jinhui Hu, Suyu You, Ulrich Neumann</i>	
12:30-14:00	<i>Lunch (on your own)</i>	

14:00-15:30	Poster Session (Sand Harbor II)	
Parallel Sessions 5&6		
15:30-17:30	Illumination, Color, and Texture Chair: Bharam Parvin (Sand Harbor II)	ST10: Energy Minimization Approaches in Image Processing and Computer Vision Chair: Jerome Darbon (Tahoe C)
15:30	Singular Value Decomposition-Based Illumination Compensation in Video <i>Ki-Youn Lee and Rae-Hong Park</i>	GrayCut - Object Segmentation in IR-Images <i>Christian Ruwwe and Udo Zolzer</i>
15:50	Hierarchical image database navigation on a hue sphere <i>Gerald Schaefer and Simon Ruzsala</i>	An Improved Representation of Junctions through Asymmetric Tensor Diffusion <i>Shawn Arseneau and Jeremy R. Cooperstock</i>
16:10-16:30	Coffee Break	
16:30	Dynamic Texture Analysis and Synthesis using Tensor Decomposition <i>Roberto Costantini, Luciano Sbaiz, and Sabine Susstrunk</i>	Surface fitting to curves with energy control <i>Wen-Ke Wang, Hui Zhang, Jun-Hai Yong and Jia-Guang Sun</i>
16:50	Color Pair Clustering for Texture Detection <i>Lech Szumilas, Allan Hanbury</i>	Low Level Moving-Feature Extraction via Heat Flow Analogy <i>Cem Direkoglu and Mark S. Nixon</i>
17:10	Improving Spatiotemporal Inpainting with Layer Appearance Models <i>Thommen Korah and Christopher Rasmussen</i>	
Parallel Sessions 7&8		
15:30-17:30	ST9: Soft Computing in Image Processing and Computer Vision Chair: Andrea Salgian (Tahoe A-B)	ST7: 4D Medical Data Modeling, Visualization and Measurement Chair: Irene Cheng (Tahoe D)
15:30	Learning for Multi-View 3D Tracking in the Context of Particle Filters <i>Juergen Gall, Bodo Rosenhahn, Thomas Brox and Hans-Peter Seidel</i>	Temporal Alignment of Time Varying MRI Datasets for High Resolution Medical Visualization <i>Meghna Singh, Anup Basu and Mrinal Mandal</i>
15:50	Activity Recognition via Classification Constrained Diffusion Maps <i>Yunqian Ma, S. B. Damelin, O. Masoud and N. Papanikolopoulos</i>	Shape Tracking and Registration for 4D Visualization of MRI and Structure <i>Irene Cheng, Sharmin Nilufar, Anup Basu and Randy Goebel</i>
16:10-16:30	Coffee Break	
16:30	Self-Adaptive RBF Neural Networks for Face Recognition <i>S. Gharai, S. Thakur, S. Lahiri, J. K. Sing, D. K. Basu, M. Nasipuri, and M. Kundu</i>	Iterative Estimation of 3D Transformations for Object Alignment <i>Tao Wang and Anup Basu</i>
16:50	On Asymmetric Classifier Training for Detector Cascades <i>Timothy F. Gee</i>	Segmentation-Based Registration of Organs in Intraoperative, Thermal Video Sequences <i>James Goddard, Timothy Gee, Hengliang Wang, and Alexander M. Gorbach</i>
17:10	Lip Detection Using Confidence-Based Adaptive Thresholding <i>Jin Young Kim, Seung You Na, and Ronald Cole</i>	
18:30-22:00	ISVC06 Banquet Dinner (Sand Harbor III) Keynote: Chris Johnson, University of Utah	

Wednesday, November 8th

07:30-09:00	Breakfast (Sand Harbor III)	
09:00-10:00	Keynote: Karel Zuiderveld, Vital Images (Sand Harbor II)	
Parallel Sessions 1&2		
10:00-12:30	ST3: Pattern Analysis and Recognition Applications in Biometrics Chair: Mark Nixon (Sand Harbor II)	Visualization II Chair: Holger Theisel (Tahoe C)
	10:00	A Novel Gait Recognition Method via Fusing Shape and Kinematics Features <i>Yanmei Chai, Qing Wang, Jingping Jia and Rongchun Zhao</i>
	10:20	Facial Expression Transformations for Expression-Invariant Face Recognition <i>Hyung-Soo Lee and Daijin Kim</i>
	10:40	Face Recognition using 2D and 3D Multimodal Local Features <i>Ajmal Mian, Mohammed Bennamoun and Robyn Owens</i>
11:00-11:30	Coffee Break	
	11:30	Iris Recognition Using a Low Level of Details <i>Jaemin Kim, Seongwon Cho, Daewhan Kim, and Sun-Tae Chung</i>
	11:50	Feature Extraction and Selection for Recognizing Humans by Their Gait <i>Jang-Hee Yoo and Mark S. Nixon</i>
	12:10	Margin Maximizing Discriminant Analysis for Multi-shot Based Object Recognition <i>Hui Kong, Eam Khwang Teoh and Pengfei Xu</i>
Parallel Sessions 3&4		
10:00-12:30	Computer Graphics II Chair: Valerio Pascucci (Tahoe A-B)	ST8: Discrete and Computational Geometry and Their Applications in Visual Computing II Chair: Reneta Barneva (Tahoe D)
	10:00	Procedural Image Processing for Visualization <i>Xiaoru Yuan and Baoquan Chen</i>
	10:20	Automatic Learning of Articulated Skeletons from 3D Marker Trajectories <i>Edilson de Aguiar, Christian Theobalt and Hans-Peter Seidel</i>
	10:40	Learning the Stylistic Similarity Between Human Motions <i>Yu-Ren Chien and Jing-Sin Liu</i>
11:00-11:30	Coffee Break	
	11:30	A natural interface for sign language mathematics <i>Nicoletta Adamo-Villani, Bedrich Benes, Matt Brisbin, and Bryce Hyland</i>
	11:50	Optimal parameterizations of Bezier surfaces <i>Yi-Jun Yang, Jun-Hai Yong, Hui Zhang, Jean-Claude Paul and Jiaguang Sun</i>
	12:10	
12:30-14:00	Lunch (on your own)	

14:00-15:00	Keynote: Mark Nixon, (Sand Harbor II)	
Parallel Sessions 5&6		
15:00-17:30	Computer Vision Applications Chair: Ali Erol (Sand Harbor II)	Computer Vision I Chair: Rahul Singh (Tahoe C)
15:00	An Automated Procedure for Word Balloon Placement in Cinema Comics <i>Bong-Kyung Chun, Dong-Sung Ryu, Won-Il Hwang and Hwan-Gue Cho</i>	Investigating the Dynamics of Facial Expression <i>Jane Reilly, John Ghent, John McDonald</i>
15:20	Vision-based User Interfaces for Health Applications: a Survey <i>Alexandra Branzan Albu</i>	An Efficient Hardware Architecture for Full-Search Variable Block Size Motion Estimation in H.264/AVC <i>Seung-Man Pyen, Kyeong-Yuk Min, Jong-Wha Chong, and Satoshi Goto</i>
15:40	An Automated System for Contact Lens Inspection <i>A.I. Bazin, T. Cole, B. Kett and M.S. Nixon</i>	Strategies for Part-based Shape Analysis using Skeletons <i>Wooi-Boon Goh</i>
16:00-16:30	Coffee Break	
16:30	Scale Consistent Image Completion <i>Michal Holtzman-Gazit and Irad Yavneh</i>	High Resolution Video from Series of Still Photographs <i>Ge Jin and James K. Hahn</i>
16:50	Viewing Scenes Occluded by Smoke <i>Arturo Donate and Eraldo Ribeiro</i>	A Fast Macroblock Mode Decision Algorithm for H.264 Based on Hierarchical Classification Framework <i>Cheng-dong Shen and Si-kun Li</i>
17:10	Active Single Landmark Based Global Localization of Autonomous Mobile Robots <i>Abdul Bais, Robert Sablatnig, Jason Gu and Stefan Mahlke</i>	
Parallel Sessions 7&8		
15:00-17:30	Segmentation, Tracking and Recognition II Chair: Mircea Nicolescu (Tahoe A-B)	Computer Vision II Chair: Edward Rosten (Tahoe D)
15:00	Real Time Hand Gesture Recognition Including Hand Segmentation and Tracking <i>Thomas Coogan, George Awad, Junwei Han, Alistair Sutherland</i>	Towards Obtaining an Ideal Real Time Panoramic Video <i>Harsh Dhand and Lakshmi Pavan Daggubati</i>
15:20	Planar Surface Detection in Image Pairs Using Homographic Constraints <i>Qiang He and Chee-hung Henry Chu</i>	Accurate extraction of reciprocal space information from transmission electron microscopy images <i>Edward Rosten and Susan Cox</i>
15:40	Real-Time Model-Based SLAM Using Line Segments <i>Andrew P. Gee and Walterio Mayol-Cuevas</i>	Image-based informatics for Preclinical Biomedical Research <i>Kenneth W. Tobin, Deniz Aykac, V. Priya Govindasamy, Shaun S. Gleason, Jens Gregor, Thomas P. Karnowski, Jeffery R. Price, Jonathan Wall</i>
16:00-16:30	Coffee Break	
16:30	Motion Detection using an Improved Colour Model <i>Horst Wildenauer, Philipp Blauensteiner, Allan Hanbury and Martin Kappel</i>	A New Algorithm for Solid Texture Synthesis <i>Jia-Wei Chiou and Chuan-Kai Yang</i>
16:50	Blob Tracking With Adaptive Feature Selection and Accurate Scale Determination <i>Jingping Jia, David Feng, Yanmei Chai, Rongchun Zhao, and Zheru Chi</i>	Robust Quality-Scalable Transmission of JPEG2000 Images over Wireless Channels using LDPC Codes <i>Abdullah Al Muhit and Teong Chee Chuah</i>
17:10	An Efficient Algorithm for Connected Attribute Thinnings and Thickenings <i>David Lesage, Jérôme Darbon and Ceyhan Burak Akgul</i>	
See you at ISVC07 ☺		

Poster Session (Sand Harbor II)

Tuesday, November 7th (2:00pm-3:30pm)

<p>Vision-Based Self-Localization of Autonomous Guided Vehicle Using Landmarks of Colored Pentagons <i>Y. S. Kim, J. C. Kim, E. J. Park and Joonwhoan Lee</i></p>
<p>Unsupervised Clustering of Shapes <i>Mohammad Reza Daliri and Vincent Torre</i></p>
<p>Multiple Description Coding for Robust Video Transmission Over <i>Joohee Kim</i></p>
<p>Real-time detection of out-of-plane objects in stereo vision <i>Weiguang Guan and Patricia Monger</i></p>
<p>Recognizing Action Primitives in Complex Actions using Hidden Markov Models <i>V. Kruger</i></p>
<p>Emotion-based Textile Indexing using Colors, Texture and Patterns <i>Soo-jeong Kim, Eun Yi Kim, Karpjoo Jeong, and Jee-in Kim</i></p>
<p>The Diagnostic Application of Brain Image Processing and Analysis System for Ischemia Stroke <i>Tzyh-Chyang Chang, Jiann-Der Lee, Chung-Hsien Huang, Tony Wu, Chi-Jen Chen, and Shwu-Jiuan Wu</i></p>
<p>A Faster Graph-based Segmentation Algorithm with Statistical Region Merge <i>Ahmed Fahad and Tim Morris</i></p>
<p>Retinal Spot Lesion Detection Using Adaptive Multiscale Morphological Processing <i>Xin Zhang and Guoliang Fan</i></p>
<p>Bi-lateral Edge Detection on a Virtual Hexagonal Structure <i>Xiangjian He, Wenjing Jia, Namho Hur, Qiang Wu, Jinwoong Kim and Tom Hintz</i></p>
<p>Evaluation of subpixel tracking algorithms <i>Johan Skoglund and Michael Felsberg</i></p>
<p>Self-Calibration with Two Views Using the Scale-Invariant Feature Transform <i>Jae-Ho Yun and Rae-Hong Park</i></p>
<p>Omnidirectional Camera Model Estimation by Considering the Inlier Distribution <i>Yongho Hwang, Jaeman Lee, and Hyunki Hong</i></p>
<p>Video Indexing and Retrieval in Compressed Domain Using Fuzzy-Categorization <i>Hui Fang, Rami Qahwaji and Jianmin Jiang</i></p>
<p>Edge Detection Using a Complex-Valued Directional Field Representation <i>Sung Bae Kim and Rae-Hong Park</i></p>
<p>Detection and Localization of the top object in the stack of objects <i>Hernsoo Hahn, and Youngjoon Han</i></p>
<p>Recognition of 3D Object Using Attributed Relation Graph of Silhouette's Extended Convex Hull <i>Hernsoo Hahn and Youngjoon Han</i></p>
<p>Iterative Closest SIFT formulation for Robust Feature Matching <i>Rafael Lemuz-López and Miguel Arias-Estrada</i></p>
<p>Stereo imaging with uncalibrated camera <i>Xiaokun Li, Chiman Kwan and Baoxin Li</i></p>

Poster Session (cont'd)

Tuesday, November 7th (2:00pm – 3:30pm)

<p>Binocular Uncalibrated Photometric Stereo <i>Hui Kong, Pengfei Xu and Eam Khwang Teoh</i></p>
<p>Direct Estimation of the Stereo Geometry from Monocular Normal Flows <i>Ding Yuan and Ronald Chung</i></p>
<p>Improved Face Recognition Using Extended Modular Principal Component Analysis <i>Changhan Park, Inho Paek, and Joonki Paik</i></p>
<p>Understanding 3D Emotions through Compact Anthropometric Autoregressive Models <i>Charlotte Ghys, Nikos Paragios and Benedicte Bascle</i></p>
<p>Adaptive Background Generation for Video Object Segmentation <i>Taekyung Kim and Joonki Paik</i></p>
<p>Fast dense stereo matching using adaptive window in hierarchical framework <i>SangUn Yoon, Dongbo Min, and Kwanghoon Sohn</i></p>
<p>Next Best View Algorithms for Interior and Exterior Model Acquisition <i>Bradley D. Null and Eric D. Sinzinger</i></p>
<p>Illumination Normalization for Color Face Images <i>Faisal R. Al-Osaimi, Mohammed Bennamoun and Ajmal Mian</i></p>
<p>Mesh Optimisation Using Edge Information In Feature-Based Surface Reconstruction <i>Jun Liu and Roger Hubbard</i></p>
<p>Automatic Camera Calibration and Scene Reconstruction with Scale-invariant Features <i>Jun Liu and Roger Hubbard</i></p>
<p>A Semi-Automatic 3D Reconstruction Algorithm for Telepresence <i>Michel Sarkis and Klaus Diepold</i></p>
<p>Image Retrieval by Local Contrast Patterns and Color <i>M. K. Bashar and N. Ohnishi</i></p>
<p>Development of Early Tunnel Fire Detection Algorithm Using the Image Processing <i>Dongil Han and Byoungmoo Lee</i></p>
<p>Affine Camera for 3-D Retinal Surface Reconstruction <i>Thitporn Chanwimaluang and Guoliang Fan</i></p>
<p>Rectification of Illumination in images used for Shape from Focus <i>Mannan S. M., Aamir Saeed Malik, Humaira Nisar, and Tae-Sun Choi</i></p>
<p>Global Hand Pose Estimation by Multiple Camera Ellipse Tracking <i>Jorge Usabiaga, Ali Erol, George Bebis, Richard Boyle, and Xander Twombly</i></p>
<p>A New Photographing Apparatus for Skin Maps of Human Face Rendering <i>Haedong Kim, Howook Jang, Inho Lee</i></p>
<p>Interpolation by Piecewise Quadric Polynomial to Scattered Data Points <i>Shanshan Gao, Caiming Zhang, and Li Zhong</i></p>

Poster Session (cont'd)

Tuesday, November 7th (2:00pm – 3:30pm)

A new method to optimal parameterization <i>Fenghua Guo and Caiming Zhang</i>
A Non-Photorealistic Rendering of Seurat's Pointillism <i>Hui-Lin Yang and Chuan-Kai Yang</i>
3D and Texture Modelling of Precolombian Objects <i>Jorge Hernandez and Flavio Prieto</i>
Simulation of Artificial Winds Using a Hardware Illumination Technique <i>Namkyung Lee, Nakhoon Baek and Kwan Woo Ryu</i>
VirtualQWERTY: A Powerful Text Input Tool for Virtual Environments <i>Jaewoo Ahn and Kyungha Min</i>
A VR Game Platform built upon Wireless Sensor Network <i>Doo-seop Eom, Jungshik Jang, Taeyoung Kim and JungHyun Han</i>
EXDRAP: An Extended Dead Reckoning Architectural Pattern for the Development of Web-Based DVR Applications <i>Nerssi Nasiri Amini, and Mostafa Haghjoo</i>
Using Visualizations to Support Design and Debugging in Virtual Reality <i>Cara Winterbottom, Edwin Blake and James Gain</i>
Immersing Tele-operators in Collaborative Augmented Reality <i>Jane Hwang, Namgyu Kim, and Gerard J. Kim</i>
Enhancing Information on Large Scenes by Mixing Renderings <i>Vincent Boyer and Dominique Sobczyk</i>
Global Topology Preservation in Isosurface Extraction of Volumetric Data <i>Xingqiang Yang, Caiming Zhang</i>

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- Jack Snoeyink, University of North Carolina, USA
- Heidrun Schumann, Rostock University, Germany
- Ross Brown, Queensland University of Technology, Australia
- Robert van Liere, CWI, The Netherlands

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- Carolina Cruz-Neira, University of Louisiana at Lafayette, USA
- Eli Peli The Schepens, Harvard Medical School, USA
- Daniel DeMenthon, National Science Foundation, USA
- Chris Johnson, University of Utah, USA
- Karel Zuiderveld, Vital Images, USA
- Mark Nixon, University of Southampton, UK

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ISVC06 Special Tracks

Intelligent Environments: Algorithms and Applications

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- Paolo Remagnino, DIRC, Kingston University, UK
 - How-Lung Eng, IIR, Singapore
 - Guoliang Fan, Oklahoma State University, USA
 - Yunqian Ma, Honeywell Labs, USA
 - Monique Thonnat, INRIA, France
-

Pattern Analysis and Recognition Applications in Biometrics

Organizers:

- Ali Erol, University of Nevada, Reno, USA
 - Salil Prabhakar, DigitalPersona, USA
 - Mark Nixon, University of Southampton, UK
 - Arun Abraham Ross, West Virginia University, USA
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Biomedical Image Analysis

Organizers:

- Tao Ju, Washington University, USA
- Ioannis Kakadiaris, University of Houston, USA
- Shi Pengcheng, Hong Kong University of Science and Technology, China
- Tomas Gustavsson, Chalmers University of Technology, Sweden

Understanding and Imitating Nature: Analysis, Interpretation, Rendering and Inspiration of Biological Forms

Organizers:

- Paolo Remagnino, DIRC, Kingston University, UK
 - Richard Boyle, NASA Ames, USA
 - Paul Wilkin, The Royal Botanic Gardens, UK
 - Jonathan Clark, University of Surrey, UK
 - Sarah Barman, Kingston University, UK
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Multimodal Data Understanding and Visualization for Industrial Applications

Organizers:

- Fatih Porikli, MERL, USA
 - Andrea Cavallaro, Queen Mary, University of London, UK
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Visual Computing and Biological Vision

Organizers:

- Jeff Mulligan, NASA Ames, USA
- Michael Webster, University of Nevada, Reno, USA
- Alice O'Toole, University of Texas at Dallas, USA

4D Medical Data Modeling, Visualization and Measurement

Organizers:

- Irene Cheng, University of Alberta, Canada
 - Randy Goebel, University of Alberta, Canada
 - Lijun Yin, State University of New York, USA
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Soft Computing in Image Processing and Computer Vision

Organizers:

- Gerald Schaefer, Nottingham Trent University, UK
- Muhammad Sarfraz, King Fahd University of Petroleum and Minerals, Saudi Arabia
- Lars Nolle, Nottingham Trent University, UK

Discrete and Computational Geometry and their Applications in Visual Computing

Organizers:

- Valentin Brimkov, State University of New York, USA
 - Reneta Barneva, State University of New York, USA
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Energy Minimization Approaches in Image Processing and Computer Vision

Organizers:

- Jose M. Bioucas-Dias, Instituto Superior Tecnico Torre Norte, Portugal
- Antonin Chambolle, CMAP Ecole Polytechnique, France
- Jerome Darbon, EPITA Research and Development Laboratory, France

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