

**7th International Symposium on Visual Computing
(ISVC'11)**

September 26-28, 2011, Las Vegas, Nevada, USA



Contents

SYMPOSIUM OVERVIEW	2
MONDAY, SEPTEMBER 26 th	3
TUESDAY, SEPTEMBER 27 th	5
WEDNESDAY, SEPTEMBER 28 th	7
POSTER SESSION	9
Keynote Speakers.....	12
Steering Committee/Area Chairs.....	18
International Program Committee	19
Special Tracks	26
SPONSORS	28





Final Program

7th International Symposium on Visual Computing (ISVC'11)

September 26-28, 2011, Las Vegas, Nevada, USA

Symposium Overview

	Monday 26 th	Tuesday 27 th	Wednesday 28 th
08:30 am – 9:30 am	Keynote (<i>Ballrooms 1-2</i>)		
9:40 am – 10:40 am	Parallel Sessions (<i>Ballrooms 1-2, 3, 4</i>)		
10:40 am – 11:10 am	<i>Coffee Break</i>		
11:10 am – 12:10 am	Parallel Sessions (<i>Ballrooms 1-2, 3, 4</i>)		
12:10 pm – 1:30 pm	<i>Lunch Break</i> (<i>on your own</i>)		
1:30 pm – 2:30 pm	Keynote (<i>Ballrooms 1-2</i>)	Poster Session * (<i>Ballrooms 1-2</i>)	Keynote (<i>Ballrooms 1-2</i>)
2:40 pm – 3:40 pm	Parallel Sessions (<i>Ballrooms 1-2, 3, 4</i>)		
3:40 pm – 4:10 pm	<i>Coffee Break</i>		
4:10 pm – 6:00 pm	Parallel Sessions (<i>Ballrooms 1-2, 3, 4</i>)		

Registration Desk hours: Sunday, Sept 25th 5:30pm -8:30pm
Monday, Sept 26th – Wednesday, Sept 28th: 8:00am – 5:30pm
Banquet Dinner: Tuesday, Sept 27th: 7:00pm – 9:30pm (Ballroom 5)

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

Monday, September 26th

8:30-9:30	<i>Keynote: Dorin Comaniciu, Siemens Corporate Research, USA (Ballrooms 1-2)</i>	
Parallel Sessions		
9:40-12:10	ST: Computational Bioimaging Chair: Adele Peskin (Ballroom 4)	Computer Graphics I Chair: John Hart (Ballroom 3)
9:40	EM+TV Based Reconstruction for Cone-Beam CT with Reduced Radiation <i>Ming Yan, Jianwen Chen, Luminita A. Vese, John Villasenor, Alex Bui and Jason Cong</i>	Adaptive Coded Aperture Photography <i>Oliver Bimber, Haroon Qureshi, Anselm Grundhofer, Max Grosse and Daniel Danch</i>
10:00	A Localization Framework under Non-Rigid Deformation for Robotic Surgery <i>Xiang Xiang</i>	Display Pixel Caching <i>Clemens Birkbauer, Max Grosse, Anselm Grundhofer, Tianlun Liu and Oliver Bimber</i>
10:20	Global Image Registration by Fast Random Projection <i>Hayato Itoh, Shuang Li, Tomoya Sakai and Athyushi Imiya</i>	Image Relighting by Analogy <i>Xiao Teng and Tat-Jen Cham</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	EM-Type Algorithms for Image Reconstruction with Background Emission and Poisson Noise <i>Ming Yan</i>	Generating EPI Representations of 4D Light Fields with a Single Lens Focused Plenoptic Camera <i>Sven Wanner, Janis Fehr and Bernd Jahne</i>
11:30	Region-Based Segmentation of Parasites for High-throughput Screening <i>Asher Moody-Davis, Laurent Mennillo and Rahul Singh</i>	MethMorph: Simulating Facial Deformation due to Methamphetamine Usage <i>Mahsa Kamali, Forrest N. Iandola, Hui Fang and John C. Hart</i>
11:50		
9:40-12:10	Motion and Tracking I Chair: Xenophon Zabulis (Ballrooms 1-2)	
9:40	Segmentation-Free, Area-Based Articulated Object Tracking <i>Daniel Mohr and Gabriel Zachmann</i>	
10:00	<i>Distortion Compensation for Movement Detection Based on Dense Optical Flow</i> <i>Josef Maier and Kristian Ambrosch</i>	
10:20	From Saliency to Eye Gaze: Embodied Visual Selection for a Pan-Tilt-Based Robotic Head <i>Matei Mancas, Fiora Pirri and Matia Pizzoli</i>	
10:40-11:10	<i>Coffee Break</i>	
11:10	Adaptive Two-Step Adjustable Partial Distortion Search Algorithm for Motion Estimation <i>Yonghoon Kim, Dokyung Lee and Jechang Jeong</i>	
11:30	Feature Trajectory Retrieval with Application to Accurate Structure and Motion Recovery <i>Kai Cordes, Oliver Muller, Bodo Rosenhahn and Jorn Ostermann</i>	
11:50	<i>An Attempt to Segment Foreground in Dynamic Scenes</i> <i>Xiang Xiang</i>	
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-2:30	<i>Keynote: Robert Geist, Clemson University, USA (Ballrooms 1-2)</i>	
	Parallel Sessions	
2:40-5:30	Segmentation Chair: Martin Kampel (Ballroom 4)	Visualization I Chairs: Dan Coming (Ballroom 3)
	2:40 Free Boundary Conditions Active Contours with Applications for Vision <i>Michal Shemesh and Ohad Ben-Shahar</i>	Interactive Object Graphs for Debuggers with Improved Visualization, Inspection and Configuration Features <i>Anthony Savidis and Nikos Koutsopoulos</i>
	3:00 Evolving content-driven superpixels for accurate image representation <i>Richard J. Lowe and Mark S. Nixon</i>	GPU-based Ray Casting of Stacked Out-of-Core Height Fields Christopher Lux and Bernd Frohlich
	3:20 A Parametric Active Polygon for Leaf Segmentation and Shape Estimation <i>Guillaume Cerutti, Laure Tougne, Antoine Vacavant and Didier Coquin</i>	Multi-View Stereo Point Clouds Visualization <i>Yi Gong and Yuan-Fang Wang</i>
3:40-4:10	<i>Coffee Break</i>	
	4:10 Avoiding Mesh Folding in 3D Optimal Surface Segmentation <i>Christian Bauer, Shanhui Sun and Reinhard Beichel</i>	Depth Map Enhancement Using Adaptive Steering Kernel Regression Based on Distance Transform <i>Sung-Yeol Kim, Woon Cho, Andreas Koschan and Mongi A. Abidi</i>
	4:30 High Level Video Temporal Segmentation <i>Ruxandra Tapu and Titus Zaharia</i>	Indented Pixel Tree Browser for Exploring Huge Hierarchies <i>Michael Burch, Hansjorg Schmauder and Daniel Weiskopf</i>
	4:50 Embedding Gestalt Laws on Conditional Random Field for Image Segmentation <i>Olfa Besbes, Nozha Boujemaa and Ziad Belhadj</i>	
	5:10 Higher Order Markov Networks for Model Estimation <i>Toufiq Parag and Ahmed Elgammal</i>	
2:40-5:30	ST: 3D Mapping, Modeling and Surface Reconstruction I Chair: Taemin Kim (Ballrooms 1-2)	
	2:40 Towards Realtime Handheld MonoSLAM in Dynamic Environments <i>Samunda Perera and Ajith Pasqual</i>	
	3:00 Registration of 3D Geometric Model and Color Images Using SIFT and Range Intensity Images <i>Ryo Inomata, Kenji Terabayashi, Kazunori Umeda and Guy Godin</i>	
	3:20 Denoising Time-Of-Flight Data with Adaptive Total Variation <i>Frank Lenzen, Henrik Schafer and Christoph Garbe</i>	
3:40-4:10	<i>Coffee Break</i>	
	4:10 Efficient City-sized 3D Reconstruction from Ultra-High Resolution Aerial and Ground Video Imagery <i>Alexandru N. Vasile, Luke J. Skelly, Karl Ni, Richard Heinrichs and Octavia Camps</i>	
	4:30 Non-Parametric Sequential Frame Decimation for Scene Reconstruction in Low-Memory Streaming Environments <i>Daniel Knoblauch, Mauricio Hess-Flores, Mark A. Duchaineau, Kenneth I. Joy and Falko Kuester</i>	
	4:50	
	5:10	

Tuesday, September 27th

8:30-9:30	<i>Keynote: Klaus Mueller, Stony Brook University, USA (Ballrooms 1-2)</i>	
Parallel Sessions		
9:40-12:10	Biomedical Imaging Chairs: Toufiq Parag (Ballroom 4)	Computer Graphics II Chair: Michael Jones (Ballroom 3)
9:40	Ground Truth Estimation by Maximizing Topological Agreements in Electron Microscopy Data <i>Huei-Fang Yang and Yoonsuck Choe</i>	High-quality Shadows with Improved Paraboloid Mapping <i>Juraj Vanek, Jan Navratil, Adam Herout and Pavel Zemcik</i>
10:00	Segmentation and Cell Tracking of Breast Cancer Cells <i>Adele P. Peskin, Daniel J. Hoepfner and Christina H. Stuelten</i>	Terramechanics Based Terrain Deformation for Real-time Off-Road Vehicle Simulation <i>Ying Zhu, Xiao Chen and G. Scott Owen</i>
10:20	Registration for 3D Morphological Comparison of Brain Aneurysm Growth <i>Carl Lederman, Luminita Vese and Aichi Chien</i>	An Approach to Point Based Approximate Color Bleeding With Volumes <i>Christopher J. Gibson and Zoe J. Wood</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	An Interactive Editing Framework for Electron Microscopy Image Segmentation <i>Huei-Fang Yang and Yoonsuck Choe</i>	3D Reconstruction of Buildings with Automatic Facade Refinement <i>C. Larsen and T.B. Moeslund</i>
11:30	Retinal Vessel Extraction using First-order Derivative of Gaussian and Morphological Processing <i>M.M. Fraz, P. Remagnino, A. Hoppe, B. Uyyanonvara, Christopher G. Owen, Alicja R. Rudnicka and S. A. Barman</i>	Surface Reconstruction of Maltese Cisterns using ROV Sonar Data for Archeological Study <i>C. Forney, J. Forrester, B. Bagley, W. McVicker, J. White, T. Smith, J. Batryn, A. Gonzalez, J. Lehr, T. Gambin, C. M. Clark and Z. J. Wood</i>
11:50		
9:40-12:10	ST: Interactive Visualization in Novel and Heterogeneous Display Environments Chair: René Rosenbaum (Ballrooms 1-2)	
9:40	Supporting Display Scalability by Redundant Mapping <i>Axel Radloff, Martin Luboschik, Mike Sips and Heidrun Schumann</i>	
10:00	A New 3D Imaging System Using a Portable Two-camera Omni-imaging Device for Construction and Browsing of Human-reachable Environments <i>Yu-Tung Kuo and Wen-Hsiang Tsai</i>	
10:20	Physical Navigation to Support Graph Exploration on a Large High-Resolution Display <i>Anke Lehmann, Heidrun Schumann, Oliver Stadt and Christian Tominski</i>	
10:40-11:10	<i>Coffee Break</i>	
11:10	An Extensible Interactive 3D Visualization Framework for N-dimensional Datasets used in Heterogeneous Software Display Environments <i>Nathaniel Rossol, Irene Cheng, John Berezowski and Iqbal Jamal</i>	
11:30	Improving Collaborative Visualization of Structural Biology <i>Aaron Bryden, George N. Phillips Jr., Yoram Griguer, Jordan Moxon and Michael Gleicher</i>	
11:50	Involve Me And I Will Understand!--Abstract Data Visualization In Immersive Environments <i>René Rosenbaum, Jeremy Bottleson, Zhuiguang Liu and Bernd Hamann</i>	
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-3:30	Poster Session (Ballrooms 1-2)	
Parallel Sessions		
3:30-6:00	Object Detection and Recognition I Chair: Kwok-Ping Chan (Ballroom 4)	Visualization II Chair: Klaus Mueller (Ballroom 3)
	3:30 Automated Fish Taxonomy using Evolution-Constructed Features <i>Kirt Lillywhite and Dah-Jye Lee</i>	Direct Spherical Parameterization of 3D Triangular Meshes Using Local Flattening Operations <i>Bogdan Mocanu and Titus Zaharia</i>
	3:50 A Monocular Human Detection System Based on EOH and Oriented LBP Features <i>Yingdong Ma, Xiankai Chen, Liu Jin and George Chen</i>	Segmentation and Visualization of Multivariate Features using Feature-Local Distributions <i>Kenny Gruchalla, Mark Rast, Elizabeth Bradley and Pablo Mininni</i>
4:10-4:40	<i>Coffee Break</i>	
	4:40 Using the shadow as a single feature for real-time monocular vehicle pose determination <i>Dennis Rosebrock, Markus Rilk, Jens Spehr and Friedrich M. Wahl</i>	Magic Marker: A Color Analytics Interface for Image Annotation <i>Supriya Garg, Kshitij Padalkar and Klaus Mueller</i>
	5:00 Multi-Class Object Layout with Unsupervised Image Classification and Object Localization <i>Ser-Nam Lim, Gianfranco Doretto and Jens Rittscher</i>	BiCluster Viewer: A Visualization Tool for Analyzing Gene Expression Data <i>Julian Heinrich, Robert Seifert, Michael Burch and Daniel Weiskopf</i>
	5:20 Efficient Detection of Consecutive Facial Expression Apices Using Biologically Based Log-Normal Filters <i>Zakia Hammal</i>	Visualizing Translation Variation: Shakespeare's Othello <i>Zhao Geng, Robert S. Laramée, Tom Cheesman, Alison Ehrmann and David M. Berry</i>
	5:40 DTTM: A Discriminative Temporal Topic Model for Facial Expression Recognition <i>Lifeng Shang, Kwok-Ping Chan and Guodong Pan</i>	
3:30-6:00	ST: 3D Mapping, Modeling and Surface Reconstruction II Chair: Ara Nefian (Ballrooms 1-2)	
	3:30 3D Object Modeling with Graphics Hardware Acceleration and Unsupervised Neural Networks <i>Felipe Montoya—Franco, Andres F. Serna--Morales and Flavio Prieto</i>	
	3:50 Event-based Stereo Matching Approaches for Frameless Address Event Stereo Data <i>Jurgen Kogler, Martin Humenberger and Christoph Sulzbachner</i>	
4:10-4:40	<i>Coffee Break</i>	
	4:40 A Variational Model for the Restoration of MR Images Corrupted by Blur and Rician Noise <i>Pascal Getreuer, Melissa Tong and Luminita A. Vese</i>	
	5:00 Robust Classification of Curvilinear and Surface-like Structures in 3D Point Cloud Data <i>Mahsa Kamali, Jason Cho, Matei Stroila, Eric Shaffer and John C. Hart</i>	
	5:20 Orthographic Stereo Correlator on the Terrain Model for Apollo Metric Images <i>Taemin Kim, Kyle Husmann, Zachary Moratto and Ara V. Nefian</i>	
	5:40	
7:00-9:30	<i>Banquet Dinner</i> (Ballroom 5) Keynote: Thomas Huang, University of Illinois at Urbana-Champaign, USA	

Wednesday, September 28th

8:30-9:30	<i>Keynote: Sergio Velastin, Kingston University, UK (Ballrooms 1-2)</i>	
Parallel Sessions		
9:40-12:10	Motion and Tracking II Chair: Alireza Tavakkoli (Ballroom 4)	ST: Immersive Visualization Chair: Bill Sherman (Ballroom 3)
9:40	Collaborative Track Analysis, Data Cleansing, and Labeling <i>George Kamberov, Gerda Kamberova, Matt Burlick, Lazaros Karydas and Bart Luczynski</i>	Immersive Out-of-Core Visualization of Large-Size and Long-Timescale Molecular Dynamics Trajectories <i>John E. Stone, Kirby L. Vandivort and Klaus Schulten</i>
10:00	Time to Collision and Collision Risk Estimation from Local Scale and Motion <i>Shrinivas Pundlik, Eli Peli and Gang Luo</i>	The OmegaDesk: Towards A Hybrid 2D and 3D Work Desk <i>Alessandro Febretti, Victor A. Mateevitsi, Dennis Chau, Arthur Nishimoto, Brad McGinnis, Jakub Misterka, Andrew Johnson and Jason Leigh</i>
10:20	Visual Tracking based on Log-Euclidean Riemannian Sparse Representation <i>Yi Wu, Haibin Ling, Erik Blasch, Li Bai and Genshe Chen</i>	Disambiguation of Horizontal Direction for Video Conference Systems <i>M. Zhang, S. Rotkin and J. Schulze</i>
10:40-11:10	<i>Coffee Break</i>	
11:10	Panoramic Background Generation and Abnormal Behavior Detection in PTZ Camera Networks <i>Sang-Hyun Cho and Hang-Bong Kang</i>	Immersive Visualization and Interactive Analysis of Ground Penetrating Radar Data <i>M.R. Sgambati, S. Koepnick, D.S. Coming, N. Lancaster, and F.C. Harris, Jr.</i>
11:30	Computing Range Flow From Multi-Modal Kinect Data <i>Jens-Malte Gottfried, Janis Fehr and Christoph S. Garbe</i>	Handymap: A Selection Interface for Cluttered VR Environments Using a Tracked Hand-held Touch Device <i>Mores Prachyabrued, David L. Ducrest and Christoph W. Borst</i>
11:50	<i>Real-time Object Tracking on iPhone</i> <i>Amin Heidari and Parham Aarabi</i>	Virtual Interrupted Suturing Exercise with the Endo Stitch Suturing Device <i>Sukitti Punak, Sergei Kurenov and William Cance</i>
9:40-12:10	Applications Chair: Atsushi Imiya (Ballrooms 1-2)	
9:40	New Image Steganography via Secret-fragment-visible Mosaic Images by Nearly-reversible Color Transformation <i>Ya-Lin Li and Wen-Hsiang Tsai</i>	
10:00	Adaptive and nonlinear techniques for visibility improvement of hazy <i>Saibabu Arigela and Vijayan K Asari</i>	
10:20	Linear Clutter Removal from Urban Panoramas <i>Mahsa Kamali, Eyal Ofek, Forrest Iandola, Ido Omer and John C. Hart</i>	
10:40-11:10	<i>Coffee Break</i>	
11:10	Efficient Starting Point Decision for Enhanced Hexagonal Search <i>Do-Kyung Lee and Je-Chang Jeong</i>	
11:30	<i>Multiview 3D pose estimation of a wand for human-computer interaction</i> <i>X. Zabulis, P. Koutlemanis, H. Baltzakis and D. Grammenos</i>	
11:50		
12:10-1:30	<i>Lunch (on your own)</i>	

1:30-2:30	Keynote: Benjamin Lok , University of Florida, USA (Ballrooms 1-2)		
Parallel Sessions			
2:40-5:30	Object Detection and Recognition II Chair: Sergio Velastin (Ballroom 4)		Virtual Reality Chairs: Jurgen Schulze (Ballroom 3)
	2:40	Material Information Acquisition Using a ToF Range Sensor for Interactive Object Recognition <i>Md. Abdul Mannan, Hisato Fukuda, Yoshinori Kobayashi and Yoshinori Kuno</i>	Investigation of Secondary Views in a Multimodal VR Environment: 3D Lenses, Windows, and Mirrors <i>Phanidhar Bezawada Raghupathy and Christoph W. Borst</i>
	3:00	A Neuromorphic Approach to Object Detection and Recognition in Airborne Videos with Stabilization <i>Yang Chen, Deepak Khosla, David Huber, Kyunghnam Kim and Shinko Y. Cheng</i>	Synthesizing Physics-Based Vortex and Collision Sound in Virtual Reality <i>Damon Shing-Min Liu, Ting-Wei Cheng and Yu-Cheng Hsieh</i>
	3:20	Retrieval of 3D polygonal objects based on multiresolution signatures <i>Roberto Lam and J.M.Hans du Buf</i>	BlenSor: Blender Sensor Simulation Toolbox <i>Michael Gschwandtner, Roland Kwitt, Andreas Uhl and Wolfgang Pree</i>
3:40-4:10	Coffee Break		
	4:10	3D Facial Feature Detection Using Iso-Geodesic Stripes and Shape-Index Based Integral Projection <i>James Allen, Nikhil Karkera and Lijun Yin</i>	Fuzzy Logic Based Sensor Fusion for Accurate Tracking <i>Ujwal Koneru, Sangram Redkar and Anshuman Razdan</i>
	4:30	Hybrid Face Recognition Based on Real-Time Multi-Camera Stereo-Matching <i>J. Hensler, K. Denker, M. Franz and G. Umlauf</i>	A Flight Tested Wake Turbulence Aware Altimeter <i>Scott Nykl, Chad Mourning, Nikhil Ghandi and David Chelberg</i>
	4:50	Learning image transformations without training examples <i>Sergey Pankov</i>	A Virtual Excavation: Combining 3D Immersive Virtual Reality and Geophysical Surveying <i>Albert Yu-Min Lin, Alexandre Novoy, Philip P. Weber, Gianfranco Morelliy, Dean Goodman and Jurgen P. Schulze</i>
	5:10		
2:40-5:30	ST: Best Practices in Teaching Visual Computing Chair: Alexandra Branzan Albu (Ballrooms 1-2)		
	2:40	Experiences in Disseminating Educational Visualizations <i>Nathan Andryscio, Paul Rosen, Voicu Popescu, Bedv{r}ich Benes and Kevin Robert Gurney</i>	
	3:00	Branches and Roots: Project Selection in Graphics Courses for Fourth Year Computer Science Undergraduates <i>M. D. Jones</i>	
	3:20	Raydiance: A Tangible Interface for Teaching Computer Vision <i>Paul Reimer, Alexandra Branzan Albu and George Tzanetakis</i>	
3:40-4:10	Coffee Break		
	4:10		
	4:30		
	4:50		
	5:10		

Poster Session (Ballrooms 1-2)

Tuesday, September 27th (1:30pm-3:30pm)

<p>Subvoxel Super-resolution of Volumetric Motion Field Using General Order Prior <i>Koji Kashu, Atsushi Imiya and Tomoya Sakai</i></p>
<p>Architectural Style Classification of Building Facade Windows <i>Gayane Shalunts, Yil Haxhimusa and Robert Sablatnig</i></p>
<p>Are Current Monocular Computer Vision Systems for Human Action Recognition Suitable for Visual Surveillance Applications? <i>Jean-Christophe Nebel, Micha Lewandowski, Jérôme Thévenon, Francisco Martínez and Sergio Velastin</i></p>
<p>Near-Optimal Time Function for Secure Dynamic Visual Cryptography <i>V. Petrauskiene, J. Ragulskiene, E. Sakyte and M. Ragulskis</i></p>
<p>Vision-based Horizon Detection and Target Tracking for UAVs <i>Yingju Chen, Ahmad Abushakra and Jeongkyu Lee</i></p>
<p>Bag-Of-Visual-Words Approach To Abnormal Image Detection In Wireless Capsule Endoscopy Videos <i>Sae Hwang</i></p>
<p>A Relevance Feedback Framework for Image Retrieval Based on Ant Colony Algorithm <i>Guang-Peng Chen, Yu-Bin Yang, Yao Zhang, Ling-Yan Pan, Yang Gao and Lin Shang</i></p>
<p>A Closed Form Algorithm for Superresolution <i>Marcelo O. Camponez, Evandro O. T. Salles, and Mário Sarcinelli-Filho</i></p>
<p>A Parallel Hybrid Video Coding Method Based on Noncausal Prediction with Multimode <i>Cui Wang and Yoshinori Hatori</i></p>
<p>Color-based Extensions to MSERs <i>Aaron Chavez and David Gustafson</i></p>
<p>3D Model Retrieval using the Histogram of Orientation of Suggestive Contours <i>Sang Min Yoon and Arjan Kuijper</i></p>
<p>Adaptive Discrete Laplace Operator <i>Christophe Fiorio, Christian Mercat and Frederic Rieux</i></p>
<p>Stereo Vision-based Improving Cascade Classifier Learning for Vehicle Detection <i>Jonghwan Kim, Chung-Hee Lee, Young-Chul Lim and Soon Kwon</i></p>
<p>Towards a Universal and Limited Visual Vocabulary <i>Jian Hou, Zhan-Shen Feng, Yong Yang and Nai-Ming Qi</i></p>
<p>Human Body Shape and Motion Tracking by Hierarchical Weighted ICP <i>Jia Chen, Xiaojun Wu, Michael Yu Wang and Fuqin Deng</i></p>
<p>Multi-View Head Detection and Tracking with Long Range Capability for Social Navigation Planning <i>Razali Tomari, Yoshinori Kobayashi and Yoshinori Kuno</i></p>
<p>A Fast Video Stabilization System Based on Speeded-up Robust Features <i>Minqi Zhou and Vijayan K. Asari</i></p>

Poster Session (cont'd)

Tuesday, September 27th (1:30pm – 3:30pm)

<p>Detection of Defect in Textile Fabrics using Optimal Gabor Wavelet Network and Two-Dimensional PCA <i>A. Srikaew, K. Attakitmongcol, P. Kumsawat and W. Kidsang</i></p>
<p>Introducing Confidence Maps to Increase the Performance of Person Detectors <i>Andreas Zweng and Martin Kampel</i></p>
<p>Monocular Online Learning for Road Region Labeling and Object Detection from a Moving Platform <i>Chung-Ching Lin and Marilyn Wolf</i></p>
<p>Detection and Tracking Faces in Unconstrained Color Video Streams <i>Cornélia Janayna P Passarinho, Evandro Ottoni T Salles and Mário Sarcinelli Filho</i></p>
<p>Model-based Chart Image Classification <i>Ales Mishchenko and Natalia Vassilieva</i></p>
<p>Kernel-based Motion-blurred Target Tracking <i>Yi Wu, Jing Hu, Feng Li, Erkang Cheng, Jingyi Yu and Haibin Ling</i></p>
<p>Robust Foreground Detection in Videos using Adaptive Color Histogram Thresholding and Shadow Removal <i>Akintola Kolawole and Alireza Tavakkoli</i></p>
<p>Deformable Object Shape Refinement and Tracking Using Graph Cuts and Support Vector Machines <i>Mehmet Kemal Kocamaz, Yan Lu and Christopher Rasmussen</i></p>
<p>A Non-intrusive Method for Copy-Move Forgery Detection <i>Najah Muhammad, Muhammad Hussain, Ghulam Muhammad and George Bebis</i></p>
<p>An Investigation into the use of Partial Face in the Mobile Environment <i>Rao G. Mallikarjuna, Kumar Praveen, Kumari G. Vijaya, Pande Amit and G.R. Babu</i></p>
<p>Optimal Multiclass Classifier Threshold Estimation with Particle Swarm Optimization for Visual Object Recognition <i>Shinko Y. Cheng, Yang Chen, Deepak Khosla and Kyunghnam Kim</i></p>
<p>A Parameter-free Locality Sensitive Discriminant Analysis and Its Application to Coarse 3D Head Pose Estimation <i>A. Bosaghzadeh and F. Dornaika</i></p>
<p>Image Set-based Hand Shape Recognition Using Camera Selection Driven by Multi-class AdaBoosting <i>Yasuhiro Ohkawa, Chendra Hadi Suryanto and Kazuhiro Fukui</i></p>
<p>Image Segmentation Based on K-Means Clustering and Energy-Transfer Proximity <i>Jan Gaura, Eduard Sojka and Michal Krumnikl</i></p>
<p>SERP: SURF Enhancer for Repeated Pattern <i>Seung Jun Mok, Kyungboo Jung, Dong Wook Ko, Sang Hwa Lee and Byung-Uk Choi</i></p>
<p>Shape Abstraction through Multiple Optimal Solutions <i>Marlen Akimaliev and M. Fatih Demirci</i></p>
<p>Evaluating Feature Combination in Object Classification <i>Jian Hou, Bo-Ping Zhang, Nai-Ming Qi and Yong Yang</i></p>

Poster Session (cont'd)

Tuesday, September 27th (1:30pm – 3:30pm)

<p>Solving Geometric Co-Registration Problem of Multi-Spectral Remote Sensing Imagery Using SIFT-based Features Toward Precise Change Detection <i>Mostafa Abdelrahman, Asem Ali, Shireen Elhabian and Aly Farag</i></p>
<p>Color Compensation Using Nonlinear Luminance-RGB component Curve of a Camera <i>Sejung Yang, Yoon-Ah Kim, Chaerin Kang and Byung-Uk Lee</i></p>
<p>Augmenting Heteronanostructure Visualization with Haptic Feedback <i>Michel Abdul-Massih, Bedrich Bene, Tong Zhang, Christopher Platzer, William Leavenworth, Huilong Zhuo, Edwin R. Garcia and Zhiwen Liang</i></p>
<p>An Analysis of Impostor Based Level Of Detail Approximations for LIDAR Data <i>Chad Mourning, Scott Nykl and David Chelberg</i></p>
<p>UI generation for data visualisation in heterogenous environment <i>Miroslav Macik, Martin Klima and Pavel Slavik</i></p>
<p>An Open-source Medical Image Processing and Visualization Tool to Analyze Cardiac SPECT Images <i>Luis Roberto Pereira de Paula, Carlos da Silva dos Santos, Marco Antonio Gutierrez and Roberto Hirata Jr.</i></p>
<p>CollisionExplorer: A tool for visualizing droplet collisions in a turbulent flow <i>Rohith MV, Hossein Parishani, Orlando Ayala, Lian-Ping Wang and Chandra Kambhamettu</i></p>
<p>A Multi Level Time Model for Interactive Multiple Dataset Visualization: The Dataset Sequencer <i>Thomas Beer, Gerrit Garbereder, Tobias Meisen, Rudolf Reinhard and Torsten Kuhlen</i></p>
<p>Automatic Generation of Aesthetic Patterns with the Use of Dynamical Systems <i>Krzysztof Gdawiec, Wiesaw Kotarski and Agnieszka Lisowska</i></p>
<p>A Comparative Evaluation of Feature Detectors on Historic Repeat Photography <i>Christopher Gat, Alexandra Branzan Albu, Daniel German and Eric Higgs</i></p>
<p>Controllable Simulation of Particle System <i>Muhammad Rusdi Syamsuddin and Jinwook Kim</i></p>
<p>3D-City Modeling: A Semi-Automatic Framework for Integrating different Terrain Models <i>Mattias Roupé and Mikael Johansson</i></p>

KEYNOTE TALK
Monday, September 26, 2011
8:30 AM – 9:30 AM / Ballrooms 1-2

ISVC 2011: 7th International Symposium on Visual Computing
Las Vegas, September 26 - 28, 2011

Shaping the Future through Innovations: Personalized Medicine

Dorin Comaniciu
Integrated Data Systems Department
Siemens Corporate Research

Abstract

The promise of personalized medicine is to do more in advance, promote early detection of the disease, more efficient workflows, and provide patient-specific therapies. This talk will analyze two important imaging dimensions of personalized medicine: knowledge-based imaging and the in-silico modeling of the body function and disease. We will underline the role that semantics plays in parsing the medical image data into thousands of meaningful components. We will showcase new and comprehensive cardiac models that include patient's anatomy, dynamics and hemodynamics. By presenting a couple of example technologies that make today a difference in hospitals we will extrapolate the clinical needs, the technology potential and expectations for the near future.

We acknowledge the contributions of Siemens colleagues and academic and clinical collaborators.



Speaker Bio-Sketch: Dorin Comaniciu is Global Technology Head for Image Analytics and Informatics at Siemens Corporate Research, Princeton, New Jersey, leading a research team with offices in the US, Germany, Austria, and China. His scientific interests include robust computer vision, medical imaging, motion estimation, object tracking, information fusion, biomedical informatics, and personalized healthcare. Dorin holds 80 US patents and has co-authored more than 200 publications in the area of information processing, including best papers in CVPR and MICCAI. He received the 2004 Siemens Inventor of the Year Award, the 2010 IEEE Longuet-Higgins Prize and served as the scientific director of Health-e-Child, a project granted the 2008 Europe's Information

Society Grand Prize. The aortic valve implantation technology his team contributed to Siemens received the 2010 Innovation Award of the European Association for Cardio-Thoracic Surgery. Since 2010 he is a Top Innovator of Siemens AG. He served as an Associate Editor of IEEE Transactions on Pattern Analysis and Machine Intelligence (2006-2008) and IEEE Transactions on Medical Imaging (2009-2011). Dorin graduated from University of Pennsylvania - The Wharton School (AMP'11), Rutgers University (PhD'99), and the Polytechnic University of Bucharest (PhD'95, Dipl.-Ing'88)

KEYNOTE TALK

Monday, September 26, 2011

1:30PM – 2:30 PM / Ballrooms 1-2

ISVC 2011: 7th International Symposium on Visual Computing
Las Vegas, September 26 - 28, 2011

Real-Time Modeling and Rendering of Natural Phenomena

Prof. Robert Geist
School of Computing
Clemson University

Abstract

Modeling and rendering natural phenomena, which includes all components of biophysical ecology, atmospheric, photon transport, and air and water flow, remains a challenging area for computer graphics research. Whether models are physically-based or procedural, model processing is almost always characterized by substantial computational demands which have almost always precluded real-time performance. Nevertheless, the recent development of new, highly parallel computational models, coupled with dramatic performance improvements in GPU-based execution platforms, has brought real-time modeling and rendering within reach. The talk will focus on the natural synergy between GPU-based computing and the so-called lattice-Boltzmann methods for solutions to PDEs. Examples will include photon transport for global illumination and modeling and rendering of atmospheric clouds, forest ecosystems, and ocean waves.



Speaker Bio-Sketch: Robert Geist is a Professor in the School of Computing at Clemson University. He served as Interim Director of the School in 2007-2008, and he is co-founder of Clemson's Digital Production Arts Program. He received an M.A. in Computer science from Duke University and a Ph.D. in mathematics from the University of Notre Dame. He was an Associate Professor of Mathematics at the University of North Carolina at Pembroke and an Associate Professor of Computer Science at Duke University before joining the faculty at Clemson University. He is a member of IFIP WG 7.3, a recipient of the Günther Enderle Award (Best Paper, Eurographics), and a Distinguished Educator of the ACM.

KEYNOTE TALK
Tuesday, September 27, 2011
9:00AM – 10:00 AM / Ballrooms 1-2

ISVC 2011: 7th International Symposium on Visual Computing
Las Vegas, September 26 - 28, 2011

Can Computers Master the Art of Communication? A Focus on Visual Analytics

Klaus Mueller

Visual Analytics and Imaging Laboratory, Center for Visual Computing
Computer Science Department, Stony Brook University

Abstract

Visual analytics seeks to conduct a discourse with the user through images, to stimulate curiosity and a penchant to decipher the unknown. The computer supports the user in this interactive analytical reasoning process, constructing a formal model of the given data, with the end product being formatted knowledge constituting insight. Yet, validation and refinement of this computational model of insight can occur only in the human domain expert's mind, bringing to bear possibly unformatted knowledge as well as intuition and creative thought. So, it is left to this human user to guide the computer in the formalization (learning) of more sophisticated models that capture what the human desires and what the computer currently believes about the data domain. In visual analytics, the computer uses images and text to exchange information with the user about its view of the domain model. Obviously, the better a communicator the computer is, the more assistance it will elicit from the user to help it refine the model. This leads to topic of my talk -the need for the computer to master the art of interpersonal communication-that is, the communication between it and the human analyst. Effective human speakers use various modes of communication, both direct and indirect, to convey a certain message. In this talk, I will enumerate some of these, translate them into the communication with visuals, and then apply them in a few practical applications, such as high-dimensional data visualization and visual model learning.



Speaker Bio-Sketch: Klaus Mueller received an MS degree in biomedical engineering and a PhD degree in computer science, both from The Ohio State University. He is currently an associate professor in the Computer Science Department at Stony Brook University, where he also holds co-appointments in the Biomedical Engineering and Radiology Departments. His current research interests are computer and volume graphics, visualization, visual analytics, medical imaging and computer vision. He won the US National Science Foundation CAREER award in 2001 and the SUNY Chancellor's Award for Excellence in Scholarship and Creative Activity in 2011. He served as a co-chair at various conferences, such as IEEE Visualization, the Volume Graphics Symposium, and the Fully 3D Workshop on High-Performance Image

Reconstruction. He has authored and co-authored more than 140 peer-reviewed journal and conference papers, and he has participated in 15 tutorials at international conferences on various topics in visualization and medical imaging. He is a senior member of the IEEE and the IEEE Computer Society. For more information, see <http://www.cs.sunysb.edu/~mueller>

BANQUET KEYNOTE TALK
Tuesday, September 27, 2011
8:00PM – 9:00 PM / Ballroom 5

ISVC 2011: 7th International Symposium on Visual Computing
Las Vegas, September 26 - 28, 2011

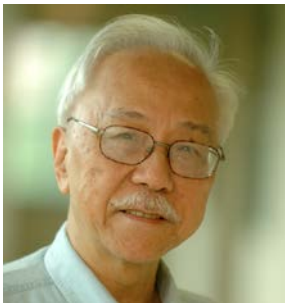
Human Computer Intelligent Interaction

Thomas S. Huang

Beckman Institute for Advanced Science and Technology
University of Illinois at Urbana-Champaign

Abstract

Computer technologies are progressing at a breakneck speed. But the tremendous computing speed and the enormous storage capacity come to naught, if we do not have intelligent human-computer interfaces. In this talk, I shall describe some of the research my students and I have been doing during the last decade on Human Computer Interaction. Specifically, information flow from human to computer: Hand/fingers tracking and gesture recognition; face tracking and emotion recognition; shrug detection; gender and age group recognition. And information flow from computer to human: Audio- visual emotive avatar. These interfaces have applications in many areas including Gaming and Electronic Consumer Relation Management (ECRM). Examples in ECRM include: Collection of demographic data (how many % of white male teenagers buy Product X?), adaptive public display (what is displayed depends on the genders, ages, and emotional reactions of the audience), and embodied intelligent agent.



Speaker Bio-Sketch: T. S. Huang received his Sc.D. from the Massachusetts Institute of Technology in Electrical Engineering, and was on the faculty of MIT and Purdue University. He joined University of Illinois at Urbana- Champaign in 1980 and is currently William L. Everitt Distinguished Professor of Electrical and Computer Engineering, Research Professor of Coordinated Science Laboratory, Professor of the Center for Advanced Study, and Co-Chair of the Human Computer Intelligent Interaction major research theme of the Beckman Institute for Advanced Science and Technology. Huang is a member of the National Academy of Engineering and has received numerous honors and awards, including the IEEE Jack S. Kilby Signal Processing Medal (with Ar. Netravali) and the King-Sun Fu Prize of the International Association of pattern Recognition. He has published 21 books and more than 600 technical papers in network theory, digital holography, image and video compression, multimodal human computer interfaces, and multimedia databases.

KEYNOTE TALK

Wednesday, September 28, 2011
8:30 AM – 9:30 AM / Ballrooms 1-2

ISVC 2011: 7th International Symposium on Visual Computing
Las Vegas, September 26 - 28, 2011

Detection and Classification of Vehicles in Urban Traffic

Sergio Velastin

Digital Imaging Research Centre
Kingston University, UK

Abstract

The talk will describe work that was done as part of a program of research funded by Transport for London to detect and classify the various road users (vehicles, cyclists, pedestrians, etc.) in London streets. There are more than 1500 cameras covering key roads in the city, which are very difficult to monitor manually. Automatic processing is highly desirable for traffic enforcement, management and planning. A detector and classifier for road users from images is presented that combines the concept of 3D models with Histogram of Oriented Gradients (HOG) to overcome limitations of conventional silhouette-based methods for road user classification. The appearance of road users varies substantially with the viewing angle and would require several single view object detectors like HOG. Here, 3D models are used for the object categories to be detected to train a single and complete 3D appearance model applicable for any viewing angle. A calibrated camera allows an affine transformation of the observation (video frame) into a normalised representation from which 3DHOG' features (3D extended histogram of oriented gradients) are defined. A variable set of interest points is used in the detection and classification processes, depending on which points in the 3D model are visible. The 3DHOG feature is compared with features based on FFT and basic histograms and also a motion silhouette baseline on the reference benchmark i-LIDS data set from the UK Home Office. We acknowledge the contributions of Siemens colleagues and academic and clinical collaborators.



Speaker Bio-Sketch: Sergio A. Velastin received the B.Sc. degree in Electronics, M.Sc. (Research) degree in Digital Image Processing and the Ph.D. from the University of Manchester Institute of Science and Technology (UMIST) in the UK, in 1978, 1979 and 1982 respectively. Currently he is a Professor and Director of the Digital Imaging Research Centre, His research interests include computer vision for pedestrian monitoring and personal security as well as distributed visual surveillance systems. Prof Velastin is also a member of the IET and the British Machine Vision Association (BMVA).

KEYNOTE TALK
Wednesday, September 28, 2011
1:30PM – 2:30 PM / Ballrooms 1-2

ISVC 2011: 7th International Symposium on Visual Computing
Las Vegas, September 26 - 28, 2011

Can Interacting with a Virtual Human Make You a Better Person?

Benjamin Lok

Department of Computer and Information Science and Engineering
University of Florida

Abstract

Virtual environments have made impressive strides in user interfaces, rendering, audio, and commercialization, and in this context we will cover the next frontier in virtual environments, virtual humans. Virtual humans are the digital citizens that populate virtual environments. Virtual humans have the potential to revolutionize the way we learn, interact, and train. In this talk, we will cover example real-world applications, affective capabilities, and propose research questions of virtual humans. My goal is to inspire the audience 1) on the transformative nature of virtual humans, 2) to participate in the research and application of virtual humans, and 3) explore the research and design space of virtual human populated virtual environments.



Speaker Bio-Sketch: Benjamin C. Lok is an Associate Professor in the Computer and Information Sciences and Engineering Department at the University of Florida. He is also an Adjunct Associate Professor in the Surgery Department at Georgia Health Sciences University. His research focuses on virtual humans and mixed reality in the areas of computer graphics, virtual environments, and human-computer interaction. Professor Lok received a Ph.D. (2002, advisor: Dr. Frederick P. Brooks, Jr.) and M.S. (1999) from the University of North Carolina at Chapel Hill, and a B.S. in Computer Science (1997) from the University of Tulsa. He did a post-doc fellowship (2003) under Dr. Larry F. Hodges at the University of North Carolina at Charlotte. Professor Lok received a NSF Career Award (2007-2012) and the UF ACM CISE Teacher of the Year Award in 2005-

2006. He and his students in the Virtual Experiences Research Group have received best paper awards at ACM I3D (Top 3, 2003) and IEEE VR (2008). His work is primarily supported by the National Science Foundation and National Institutes of Health. He currently serves on the Steering Committee of the IEEE Virtual Reality conference, program co-chair of the ACM VRST 2009, IEEE Virtual Reality 2010, and IEEE Virtual Reality 2011. Professor Lok is on the editorial board of the International Journal of Human-Computer Studies and Simulation: Transactions of the Society for Modeling and Simulation.

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 Woodring Jon, Los Alamos National Lab, USA

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Wyman Chris, University of Calgary, Canada
Wyvill Brian, University of Iowa, USA
Yang Qing-Xiong, University of Illinois at Urbana,
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Yang Ruigang, University of Kentucky, USA
Ye Duan, University of Missouri-Columbia, USA
Yi Beifang, Salem State College, USA

Yin Lijun, Binghamton University, USA
Yoo Terry, National Institutes of Health, USA
Yuan Xiaoru, Peking University, China
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(Area 3) Virtual Reality

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Balcisoy Selim, Sabanci University, Turkey
Behringer Reinhold, Leeds Metropolitan Univ UK
Bilalis Nicholas, Technical Univ of Crete, Greece
Blach Roland, Fraunhofer Institute for Industrial
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Blom Kristopher, University of Barcelona, Spain
Boulic Ronan, EPFL, Switzerland
Brady Rachael, Duke University, USA
Brega Jose Remo Ferreira, Universidade Estadual
Paulista, Brazil
Brown Ross, Queensland University of Technology,
Australia
Bruce Thomas, The University of South Australia,
Australia
Bues Matthias, Fraunhofer IAO in Stuttgart,
Germany
Chen Jian, Brown University, USA
Cheng Irene, University of Alberta, Canada
Coquillart Sabine, INRIA, France
Craig Alan, NCSA University of Illinois at Urbana-
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Cremer Jim, University of Iowa, USA
Egges Arjan, Universiteit Utrecht, The Netherlands
Encarnacao L. Miguel, University of Louisville, USA
Figueroa Pablo, Univ de los Andes, Colombia
Fox Jesse, Stanford University, USA
Friedman Doron, IDC, Israel
Gregory Michelle, Pacific Northwest National Lab,
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Gupta Satyandra K., University of Maryland, USA
Haller Michael, FH Hagenberg, Austria
Hamza-Lup Felix, Armstrong Atlantic State
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Hollerer Tobias, University of California at Santa
Barbara, USA
Huang Jian, Univ of Tennessee at Knoxville, USA
Julier Simon J., University College London, UK

Kiyokawa Kiyoshi, Osaka University, Japan
Klosowski James, AT&T Labs, USA
Kozintsev, Igor, Intel, USA
Kuhlen Torsten, RWTH Aachen Univ, Germany
Lee Cha, Univ of California, Santa Barbara, USA
Liere Robert van, CWI, The Netherlands
Livingston A. Mark, Naval Research Lab, USA
Majumder Aditi, University of California, Irvine, USA
Malzbender Tom, Hewlett Packard Labs, USA
Mantler Stephan, VRVis Research Center, Austria
Molineros Jose, Teledyne Scientific and Imaging,
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Muller Stefan, University of Koblenz, Germany
Olwal Alex, MIT, USA
Paelke Volker, Institut de Geomàtica, Spain
Papka Michael, Argonne National Laboratory, USA
Peli Eli, Harvard University, USA
Pettifer Steve, The University of Manchester, UK
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Sandor Christian, University of South Australia,
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Stamminger Marc, REVES/INRIA, France
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Stefani Oliver, COAT-Basel, Switzerland
Sun Hanqiu, The Chinese University of Hong Kong, Hong Kong
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(Area 4) Visualization

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Chourasia Amit, University of California - San Diego, USA
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Hong Lichan, Palo Alto Research Center, USA
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ST5: Interactive Visualization in Novel and Heterogeneous Display Environments

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