

## IVCNZ08 Preliminary Conference Programme 5/11/2008

Tuesday 25th November	
2:00 – 5:00pm	Tutorial (Geometric Algebra) – Robert Valkenburg
6:00 – 8:00pm	Registration & Drinks Evening

Wednesday 26th November	
8:00am	Registration Desk Open
9:00am	Welcome
9:10am	<i>Oral Session 1</i>
	<b>On 3D Face Feature Segmentation Using Implicit Surface Active Contours</b> Matthias Krueger, Patrice Delmas, Georgy Gimel'farb
9:30am	<b>Texture-suppressing edge detection in real-time</b> Ray Hidayat, Richard Green
9:50am	<b>Mixed Pixel Separation For A Full-Field Ranger</b> John P. Godbaz, Michael J. Cree, Adrian A. Dorrington
10:10 am	<b>Speeded-Up Bag-of-Words Algorithm for Robot Localisation through Scene Recognition</b> Tom Botterill, Steven Mills, Richard Green
10:30am	<b>RBF Patching of Laser Scanner Data</b> Rachel Johnston, Brent Price
10:50am	Morning Tea
11:15am	<i>IAPR Distinguished Speaker - Keynote</i>
	Matt Aitken – Weta Digital Ltd
12:15pm	Lunch
1:15pm	<i>Oral Session 2</i>
	<b>Combined Thermal-LIDAR Imagery for Urban Mapping</b> Daniel O'Donohue, Steven Mills, Simon Kingham, Phil Bartie, and David Park
1:35pm	<b>3D Natural Hand Interaction for AR Applications</b> M. Lee, M. Billinghurst, R. Green
1.55pm	<b>Developing Mobile Phone AR Applications Using J2ME</b> J. Gu, R. Mukundan, M. Billinghurst
2:15pm	Barking Session 1
2:40pm	Afternoon Tea & Poster Session 1
3:40pm	<i>Oral Session 3</i>
	<b>Differences Between Stereo and Motion Behaviour on Synthetic and Real-World Stereo Sequences</b> Tobi Vaudrey, Clemens Rabe, Reinhard Klette and James Milburn
4:00pm	<b>A New Combination of Local and Global Constraints for Optical Flow Computation</b> Yan Niu; Anthony Dick; Michael Brooks
4:20pm	<b>Integrated Bayesian Multi-cue Tracker for Objects Observed from Moving Cameras</b> Pankaj Kumar, Anthony Dick, Micheal J. Brooks
4:40pm	<b>Knowledge-based Power Line Detection for UAV Surveillance and Inspection Systems</b> Zhengrong Li, Yuee Liu, Ross Hayward, Jinglan Zhang, Jinhai Cai
5:00pm	End of Sessions

<b>Thursday 27th November</b>	
<b>9:00am</b>	<i><b>Oral Session 4</b></i> <b>Part Aggregation in a Compositional Model based on the Evaluation of Feature Cooccurrence Statistics</b> Martin Stommel, Klaus-Dieter Kuhnert
<b>9:20am</b>	<b>Object Detection and Identification Applied to Planes and Aircrafts for Airport Surveillance</b> F. Robert-Inacio, S. Bussone, G. Chassaing, Y. Maziere
<b>9:40am</b>	<b>Person identification from spatio-temporal volumes</b> Yumi Iwashita, Maria Petrou
<b>10:00am</b>	<b>Volumetric InSAS reconstruction using belief propagation</b> Michael Hayes
<b>10:20am</b>	<b>Barking Session 2</b>
<b>10:40am</b>	<b>Morning Tea &amp; Poster Session 2</b>
<b>11:40am</b>	<i><b>Oral Session 5</b></i> <b>Medipix Imaging - evaluation of datasets with PCA</b> Jochen S. Butzer, Anthony P. H. Butler, Phil H. Butler, Phil J. Bones, Nick Cook, Lukas Tlustos
<b>12:00 noon</b>	<b>Camera Based Face Tracking for Enhancing Surgical Teamwork Training with Non-Verbal Communication</b> Stefan Marks, John Windsor, Burkhard Wünsche
<b>12:20pm</b>	<b>Classification of Colonic Polyps using Hidden Markov Models</b> M. Park, J.S. Jesse, R. Hofstetter, S. Luo, P. Summons
<b>12:40pm</b>	<b>Segmentation of Bone Marrow Stromal Cells in Phase Contrast Microscopy Images</b> Christopher Bradhurst, Wageeh Boles, Yin Xiao
<b>1:00pm</b>	<b>Lunch</b>
<b>2:00pm</b>	<i><b>Oral Session 6</b></i> <b>Fuzzy Co-Clustering of Medical Images using Bacterial Foraging</b> M. Hanmandlu, S. Susan, V.K. Madasu, B.C. Lovell
<b>2:20pm</b>	<b>On Fusion of Active Range Data and Passive Stereo Data for 3D Scene Modelling</b> Yuk Hin Chan, Patrice Delmas, Georgy Gimel'farb, Robert Valkenburg
<b>2:40pm</b>	<b>Pattern Discovery for Object Categorization</b> Edmond Zhang, Michael Mayo
<b>3:00pm</b>	<b>Perspective Correction for improved visual registration using natural features.</b> Adrian Clark, Richard Green, Robert Grant
<b>3:20pm</b>	<b>Afternoon Tea</b>
<b>4:00pm</b>	<i><b>Industry Visit &amp; Conference Dinner</b></i> <b>Depart Lincoln University</b>
<b>4:30pm</b>	<b>Arrive Canterbury University (HITlab &amp; Geospatial Research Centre)</b>
<b>6:00pm</b>	<b>Depart Canterbury University</b>
<b>6:30pm</b>	<b>Arrive Willowbank Wildlife Reserve</b>
<b>7:00pm</b>	<b>Conference Dinner</b>
<b>8:30pm</b>	<b>Tour of Wildlife Reserve &amp; Dessert</b>
<b>10:00pm</b>	<b>Depart Willowbank Wildlife Reserve</b>

Friday 28th November	
9:00am	<b>Andrew Bainbridge-Smith: IEEE</b>
9:15am	<i>Oral Session 7</i> <b>Assessing the Naturalness of Scenes: An Approach using Statistics of Local Features</b> Jeremiah Deng, Russell Brinkworth, David O'Carroll
9:35am	<b>Adaptive Feature Thresholding for Off-line Signature Verification</b> Robert Larkins, Michael Mayo
9:55am	<b>On-Line Writer Identification Based on Handwriting Velocity and Curvature of Script</b> T. Matsuura, P. Thumwarin, N.Kato
10:15am	<b>Barking Session 3</b>
10:35am	<b>Morning Tea &amp; Poster Session 3</b>
11:30am	<i>Oral Session 8</i> <b>The Restoration of Extended Astronomical Images using the Spatially-Variant Point Spread Function</b> Stephen Weddell, Russell Webb
11:50am	<b>Detection of Wind Velocities from Scintillation Images</b> J.L. Mohr, R.A. Johnston and P.L. Cottrell
12:10pm	<b>Firearm Identification based on FIR System Characterizing Rotation Invariant Feature of Cartridge Case Image</b> P. Thumwarin, C. Prasit, P. Boonbumroong, T.Matsuura
12:30pm	<b>Particle Swarm Optimisation for Object Classification</b> Hamish Evans, Mengjie Zhang
12:50pm	<b>Lunch</b>
1:40pm	<i>Oral Session 9</i> <b>Automatic 3D Lip shape Segmentation And SPH Modeling</b> A. Gastelum, M. Krueger, J. Marquez, G. Gimel'farb, P. Delmas
2:00pm	<b>Extracting Key Postures Using Radon Transform</b> Yan CHEN, Qiang WU, Xiangjian HE
2:20pm	<b>Modeling Timing Structures in Gait Image Sequences using Bottom-up Clustering</b> Hidenori Tanaka, Xiaojun Wu, Hiroyuki Arai, Hideki Koike
2:40pm	<b>A new Hybrid DCT and Contourlet Transform based JPEG Image Steganalysis Technique</b> Zohaib Khan, Atif Bin Mansoor
3:00pm	<b>Discrete Cosine Transform (DCT) Based Face Recognition in Hexagonal Images</b> Muhammad Azam, M. Almas Anjum, M. Younus Javed
3:20pm	<b>Closing Remarks</b>
3:30pm	<b>Afternoon Tea</b>

<b>Poster Session 1</b> <b>Wednesday 26<sup>th</sup> November</b>	
<b>An Approach for Evaluating Robustness of Edge Operators on Real-World Driving Scenes</b>	Ali Al-Sarraf, Tobi Vaudrey, Reinhard Klette and Young Woo
<b>Hybrid Face Detection System with Robust Face and non-Face Discriminability</b>	Nacer Farajzadeh, Karim Faez
<b>Improving Face Gender Classification By Adding Deliberately Misaligned Faces To The Training Data</b>	Michael Mayo, Edmond Zhang
<b>A Quasi-physical Algorithm for Image Edge Detection</b>	Enmin Song, Yaobin Zou, Renchao Jin
<b>A Learning Method for Association between Vision and Ego-Motion which is Capable of Adapting to Arbitrary Image Distortion</b>	Takashi Toriu, Hirofumi Fukumoto
<b>Visual Tracking Using the Harmony Search Algorithm</b>	Jaco Fourie, Steven Mills, Richard Green
<b>Urban Models Texturation from Uncalibrated Photographs</b>	Oussama Moslah, Mathieu Klee, Antoine Grolleau, Vincent Guitteny, Serge Couvet, Sylvie Philipp-Foliguet
<b>Low Resolution Hyperspectral Compressed Sensing and Hadamard Imaging</b>	L. Streeter, G.R. Burling-Claridge, M.J.Cree, R. Kunemeyer
<b>Applications for Bio-Inspired Visual Processing Algorithms</b>	Russell S.A. Brinkworth, David C. O'Carroll
<b>Texture Mapping for the FastSCAN hand-held laser scanner</b>	Frank Walkowski, Rachel Johnston, Brent Price
<b>Robust Upper Limb Tracking for Large Interactive Displays</b>	Cheng-Tse Chu Richard Green
<b>A Novel Image Encryption Scheme Using Lorenz Attractor</b>	Gelli MBSS Kumar, V.Chandrasekaran
<b>Effects of Sub-sampling and Quantisation on Colour Bleeding Due to Image and Video Compression</b>	A. Punchihewa, J. Armstrong
<b>Classifier Cascades for Support Vector Machines</b>	Ignas Kukenys, Brendan McCane
<b>Improved Spread Spectrum Image Watermarking in Contourlet Domain</b>	Francisco García-Ugalde, Mazay Jiménez-Salinas
<b>Aspects of binary image reconstruction from Fourier amplitude data</b>	Victor Lo, Rick Millane
<b>Weighted Median Based Colour Filter Array Demosaicking</b>	J. S. J. Li, S. Randhawa
<b>Implementation of real-time pedestrian detection on FPGA</b>	Tam Phuong Cao and Guang Deng
<b>Multi-Rate Recognition of Human Gestures by Concurrent Frame Rate Control</b>	Toshiyuki Kirishima, Yoshitsugu Manabe, Kosuke Sato, Kunihiro Chihara

<b>Poster Session 2</b> <b>Thursday 27<sup>th</sup> November</b>	
<b>Investigation of Profile Registration with Application to the FastSCAN range of Laser Scanners</b>	Nadia Haubner, Rachel Johnston, Brent Price
<b>Quadratic Programming Vs. Concurrent Correlation Matching under Non-Uniform Image Contrast and Offset</b>	Georgy Gimel'farb, Patrice Delmas, Al Shorin, John Morris
<b>A High-Performance &amp; Low-Power Unified 4x4 / 8x8 Transform Architecture for H.264/AVC Codec</b>	Wonjoon Choi, Jonghyuk Park, Seongsoo Lee
<b>Sky Detection in Images for Solar Exposure Prediction</b>	N. Laungrungthip, A.E. McKinnon, C.D. Churcher, K. Unsworth
<b>Comparing Subspace Methods for Face Recognition</b>	Waqar Khan, Patrice Delmas, Georgy Gimel'farb, John Morris
<b>Realtime Face Detection and Tracking Using a Single Pan, Tilt, Zoom Camera</b>	Ajmal Mian
<b>Region-based Image GA Clustering and Retrieval with Relevance Feedback</b>	Reza Fakouri, Payam Porkar, Mahmood Fathy
<b>Road Network Extraction with New Vectorization and Pruning from High-resolution RS Images</b>	Hang Jin, Yanming Feng, Bofeng Li
<b>Robust character recognition using adaptive feature extraction</b>	Minoru Mori, Minako Sawaki, Junji Yamato
<b>A Sequential Monte Carlo Method for Particle Filters</b>	Hongzhi Gao, Richard Green
<b>Robust calibration of the position of reference targets for a 6 degrees of freedom pose sensor</b>	David Penman, Robert Valkenburg, Nawar Alwesh
<b>A 3D Video Scanner for Face Performance Capture</b>	Alexander Woodward, Patrice Delmas, Georgy Gimel'farb
<b>A Patient Position Guidance System in Radiation Therapy Using Augmented Reality</b>	James Talbot, Juergen Meyer, Richard Watts, Raphael Grasset
<b>"Black Spot": a Prototype Camera Module</b>	Crispin Lovell-Smith, Phil Bones, Michael Hayes, Rachel Johnston, Brent Price
<b>Facial Expression Recognition from Image Sequences Using Optimised FImpulse Noise Reduction for Digital Image Using Fuzzy Multipass Filterature Selection</b>	Seyed Mehdi Lajevardi, Margaret Lech
<b>Impulse Noise Reduction for Digital Image Using Fuzzy Multipass Filter</b>	Kenny Kal Vin Toh, Haidi Ibrahim, Siti Khairunniza Bejo
<b>Adaptive 3D Reconstruction System with Improved Recovery of Miscoded Region to Automatically Adjust Projected Light Patterns</b>	S.-R. Jian, C.-Y. Chen, C.-F. Chen Y.-M. Su and Y.-Y. Chang
<b>A Virtual Imaging System for Colour Research</b>	A.N. Chalmers, L. Wang and M.V. Ramos
<b>An Adaptive Sub-band DCT Watermarking Scheme Using Local Image Characteristics</b>	Walid Masoudi Mansour, Wedad Masoudi Mansour

<b>Poster Session 3</b> <b>Friday 28<sup>th</sup> November</b>	
<b>Surface Reconstruction of Laser Scanner Data using Piecewise RBF Methods</b>	Rachel Johnston, Brent Price
<b>Symmetry Detection for Astronomical Object Study</b>	F. Robert-Inacio, P. Le Fur
<b>Duality TV-L1 Flow with Fundamental Matrix Prior</b>	Andreas Wedel, Thomas Pock, Juergen Braun, Uwe Franke, Daniel Cremers
<b>Multi-scale Feature Extraction for 3D Surface Registration using Local Shape Variation</b>	Huy Tho Ho, Danny Gibbins
<b>Evaluation of Moving Object Segmentation Comparing 6D-Vision and Monocular Motion Constraints</b>	Jens Klappstein, Tobi Vaudrey, Clemens Rabe and Andreas Wedel
<b>An Efficient Algorithm for Image Retrieval through Fusion of Two Clustering Approaches Based on Combined Features</b>	Radwa El-Shawi, Xiangjian He
<b>Estimation of Rapid-motion for Mobile Devices Using Temporal Coherence</b>	Minwoo Kim, Il-Seok Oh
<b>Fast Stereo with Background Removal using Phase Correlation</b>	Sutono Effendi, Ray Jarvis, David Suter
<b>A Learning Method for Association between Vision and Ego-Motion which is Capable of Adapting to Arbitrary Image Distortion</b>	A Learning Method for Association between Vision and Ego-Motion which is Capable of Adapting to Arbitrary Image Distortion
<b>Creating a view dependent rendering system for mainstream use</b>	Philip Buchanan, Richard Green
<b>An Improved Image Segmentation Algorithm for Salient Objects Detection</b>	Yuee Liu, Jinglan Zhang, Dian Tjondronegoro, Shlomo Geva, Zhengrong Li
<b>Embedded Computer Vision Framework on a Multimedia Processor</b>	Tom Loten, Richard Green
<b>Cost-efficient Automated Visual Inspection System for small manufacturing industries based on SIFT</b>	Mehdy Bohlool, Soroosh Rahimi Taghanaki
<b>A New Method for Fingerprint Identification Based on Gabor-Filter and Recursive Fisher Linear Discriminant</b>	M. Dadgostar , P. R. Tabrizi , E. Fatemizadeh , H. Soltanian-Zadeh
<b>Web-Based On-Line Computational Stereo Vision</b>	M. Nguyen, G. Gimel'farb, P. Delmas
<b>Towards an Intelligent Vision Processor</b>	Khurram Jawed, John Morris and Georgy Gimel'farb
<b>Digital Image Analysis Based Automated Kiwifruit Counting Technique</b>	P. Wijethunga, S. Samarasinghe, D. Kulasiri, I. Woodhead
<b>An Investigation into noise-bound shadow detection and removal</b>	K. Irie, A.E. McKinnon, K. Unsworth, I.M. Woodhead
<b>HLS Distorted Colour Model for Enhanced Colour Image Segmentation</b>	Robert Grant, Richard Green, Adrian Clark
<b>Contrast enhancement using incomplete beta and wavelet transforms</b>	Anoop R M Wilscy