08:00am-05:00pm	Registration			
09:00am-09:20am	Opening			
09:20am-10:40am	Tutorial 1: Satellite Image Analyses for Marine and Coastal Applications Presenter: Dr. Vincent Lyne (CSIRO Marine and Atmospheric Research, Australia) Session Chair: Ritaban Dutta			
10:40am-11:00am	Morning Tea			
11:00am-12:20pm	Tutorial 2: Multiview video coding using cuboid data compression  Presenter: A/Prof. Manzur Murshed (Monash University) and Dr. Manoranjan Paul (Charles Sturt University)  Session Chair: Ritaban Dutta			
12:20pm-01:20pm	Lunch			
Session: Computer Vision 1 (3 papers) Session Chair: Lei Wang				
01:20pm-01:40pm	Lin Gu, Cong Phuoc Huynh and Antonio Robles-Kelly Reconstructing Polarisation Components from Unpolarised Images			
01:40pm-02:00pm	Gustavo Carneiro, Zhibin Liao and Tat-Jun Chin Closed-Loop Deep Vision			
02:00pm-02:20pm	Khurrum Aftab and Richard Hartley Lq Averaging for Symmetric Positive-Definite matrices			
Session: Face Recognition (3 papers) Session Chair: Clinton Fookes				
02:20pm-02:40pm	Syed Zulqarnain Gilani, Ajmal Mian and Faisal Shafait Biologically significant facial landmarks; How significant are they for gender classification?			
02:40pm-03:00pm	Douglas Brown, Yongsheng Gao and Jun Zhou Learning Discriminative Local Patterns with Unrestricted Structure for Face Recognition			
03:00pm-03:20pm	Xun Yu, Yongsheng Gao and Jun Zhou A 3D Polygonal Line Chains Matching Method for Face Recognition			
03:20pm-03:40pm	Afternoon Tea			
Session: Image Prod Session Chair: Mark I				
03:40pm-04:00pm	Aaron Marburg, Michael Hayes and Andrew Bainbridge-Smith Pose Priors for Aerial Image Registration			
04:00pm-04:20pm	Stephen Tierney, Junbin Gao and Geoff Bull Image Matting for Sparse User Input by Iterative Refinement			
04:20pm-04:40pm	Ang Li, Changyang Li, Xiuying Wang, Stefan Eberl, Michael Fulham and David Feng Automated Segmentation of Prostate MR Images using Prior Knowledge Enhanced Random Walker			
04:40pm-05:00pm	Mortuza Ali and Manzur Murshed Undecoded Coefficients Recovery in Distributed Video Coding By Exploiting Spatio-Temporal Correlation: A Linear Programming Approach			
05:00pm-06:30pm	APRS meeting Session Chair: Nick Redding			
		06:00pm–08:00pm Reception and Networking Drinks		

08:00am-05:00pm	Registration	
09:00am-10:00am	Keynote Speech 1: Tangible imaging systems  Presenter: A/Prof James Ferwerda, Xerox Chair in Imaging Science, Rochester Institute of Technology, NY, USA Session Chair: Ulrich Engelke	
Session: Computer Vision 2 (3 papers) Session Chair: Matthew Thurley		
10:00am-10:20am	Hajananth Nallaivarothayan, David Ryan, Simon Denman, Sridha Sridharan and Clinton Fookes An Evaluation of Different Features and Learning Models for Anomalous Event Detection	
10:20am-10:40am	Richard Palmer, Geoff West and Tele Tan Using Depth to Extend Randomised Hough Forests for Object Detection and Localisation	
10:40am-11:00am	Sadeep Jayasumana, Richard Hartley, Mathieu Salzmann, Hongdong Li and Mehrtash Harandi Combining Multiple Manifold-valued Descriptors for Improved Object Recognition	
11:00am-11:20am	Morning Tea	
Session: Biomedical (4 papers) Session Chair: Eva Cheng		
11:20am-11:40am	Sze-Liang Stanley Chan, Yaniv Gal, Rosalind L. Jeffree, Michael Fay, Paul Thomas, Stuart Crozier and Zhengyi Yang Automated Classification of Bone and Air Volumes for Hybrid PET-MRI Brain Imaging	
11:40am-12:00pm	Hien Nguyen, Andrew Janke, Geoffrey McLachlan, Nicolas Cherbuin, Perminder Sachdev and Kaarin Anstey Spatial False Discovery Rate Control for Magnetic Resonance Imaging Studies	
12:00pm-12:20pm	Yuyao Zhang, Philip Ogunbona, Wanqing Li, Bridget Munro and Gordon Wallace Pathological Gait Detection of Parkinson's Disease using Sparse Representation	
12:20pm–12:40pm	Shu-Kay Ng and Alfred K Lam Automatic segmentation of molecular pathology images using a robust mixture model with Markov random fields	
12:40pm-02:00pm	Lunch	
02:00pm-03:20pm	Poster Session 1 (20 papers) Session Chair: Ashfaqur Rahman	
	Toshiaki Okabe and Kazuhiro Hotta Accuracy Improvement of Melanosome Tracking by Error Correction	
	Mst. Nargis Aktar, Md. Jahangir Alam, Andrew Lambert and Mark Pickering ROBUST 3D MULTI-MODAL REGISTRATION OF MRI VOLUMES USING THE SUM OF CONDITIONAL VARIANCE	
	Guohua Lv, Shyh Wei Teng, Guojun Lu and Martin Lackmann Detection of Structural Similarity for Multimodal Microscopic Image Registration	
	Teng Zhang, Arnold Wiliem and Brian Lovell Region-Based Anomaly Localisation in Crowded Scenes via Trajectory Analysis and Path Prediction	
	Ramana Murthy, Ibrahim Radwan, Abhinav Dhall and Roland Goecke On the Effect of Human Body Parts in Large Scale Human Behaviour Recognition	
	Jamie Sherrah, Branko Ristic and Dmitri Kamenetsky A Pedestrian Multiple Hypothesis Tracker Fusing Head and Body Detections	
	Masahide Kobayashi, Yoshitsugu Manabe and Noriko Yata Interactive Estimation of Light Source Position and Reflectance of Real Objects for Mixed-Reality Application	
	Gao Zhu, Hongdong Li and Yansheng Ming Object Cut as Minimum Ratio Cycle in a Superpixel Boundary Graph	
	Mohammad Tavakolian, Farshid Hajati, Ajmal Mian and Soheila Gheisari Sparse Variation Pattern for Texture Classification	

Praveen Pullaperuma and Anuja Dharmaratne

Taxonomy of file fragments using Gray-Level Co-Occurrence Matrices

Alina Bialkowski, Patrick Lucey and Sridha Sridharan Person Re-Identification Using Group Information

Kalyan Kumar Halder, Murat Tahtali and Sreenatha G. Anavatti

An Improved Image Restoration Method for Non-Uniformly Warped Images

Shannon Fehlmann, David Booth, Pranam Janney, Carmine Pontecorvo, Peter Aquilina, Tony

Scoleri, Nick Redding and Robert Christie

Application of detection and recognition algorithms to persistent wide area surveillance

Dale Ward, Sebastien Wong, Ivan Lee and David Kearney

Chaining convolution and correlation in practice: a case study in visual tracking

Kaibin Zong, Arcot Sowmya and John Trinder

Kernel Partial Least Squares Based Hierarchical Building Change Detection using High Resolution

Aerial Images and Lidar Data

Mohammad Awrangjeb and Guojun Lu

Building Roof Plane Extraction From LIDAR Data

Nabeel Mohammed and David Squire

ICFSIFT: Improving collection-specific CBIR with ICF-based local features

Long Sha, Patrick Lucey, Sridha Sridharan, Stuart Morgan and Dave Pease

Swimmer Localization from a Moving Camera

Anders Landström, Matthew Thurley and Håkan Jonsson Adaptive Morphological Filtering of Incomplete Data

Nitin Mahadeo, Andrew Paplinski and Sid Ray

Robust Video Based Iris Segmentation System in Less Constrained Environments

## 03:20pm-03:40pm Afternoon tea

## Session: Pattern Recognition 1 (3 papers)

Session Chair: David Squire

03:40pm-04:00pm Xinyu Wei, Long Sha, Patrick Lucey, Stuart Morgan and Sridha Sridharan

Large Scale Analysis of Formations in Soccer

04:00pm-04:20pm Akter Hussain, Alauddin Bhuiyan, Ajmal Mian and Kotagiri Ramamohanarao

Biometric Security Application for Person Authentication using Retinal Vessel Feature

04:20pm-04:40pm Chao Zhang, Chunhua Shen and Tingzhi Shen

Scale-Less Feature-Spatial Matching

## **Session: Computer Vision 3 (3 papers)**

Session Chair: Cong Phuoc Huynh

Accelerating the Divisive Information-Theoretic Clustering of Visual Words

05:00pm–05:20pm Behzad Bozorgtabar and Roland Goecke

Robust Visual Vocabulary Tracking Using Hierarchical Model Fusion

05:20pm-05:40pm William Liu, Tat-Jun Chin, Gustavo Carneiro and David Suter

Point Correspondence Validation Under Unknown Radial Distortion

06:00pm-11:00pm Conference Dinner

08:00am-05:00pm	Registration		
09:00am-10:00am	Keynote Speech 2: Perceptual Coding of Visual Signals: A leap of insight Presenter: Prof Hong Ren Wu, Royal Melbourne Institute of Technology, Australia Session Chair: Guojun Lu		
Session: Pattern Recognition 2 (3 papers) Session Chair: Yaniv Gal			
10:00am-10:20am	Ruwan Tennakoon, Alireza Bab-Hadiashar, David Suter and Zhenwei Cao Robust Data Modelling Using Thin Plate Splines		
10:20am-10:40am	Ross Marchant and Paul Jackway Using Super-Resolution Methods to Solve a Novel Multi-Sinusoidal Signal Model		
10:40am-11:00am	Xinyu Wei, Patrick Lucey, Stuart Morgan and Sridha Sridharan Predicting Shot Locations in Tennis using Spatiotemporal Data		
11:00am-11:20am	Morning Tea		
Session: Image Processing 2 (4 papers) Session Chair: Ajmal Mian			
11:20am–11:40am	Khalid Yousif, Alireza Bab-Hadiashar and Reza Hoseinnezhad 3D Registration in Dark Environments Using RGB-D Cameras		
11:40am-12:00pm	Zsolt Sánta and Zoltan Kato Pose Estimation of Ad-hoc Mobile Camera Networks		
12:00pm-12:20pm	Stephen Vidas and Peyman Moghadam  Ad hoc radiometric calibration of a thermal-infrared camera		
12:20pm-12:40pm	Kukulage Perera and Nick Barnes 1-Point Rigid Motion Estimation and Segmentation with a RGB-D Camera		
12:40pm-02:00pm	n–02:00pm Lunch		
02:00pm-03:20pm	Poster Session 1 (20 papers) Session Chair: Daniel Smith		
	Nitin Mahadeo, Andrew Paplinski and Sid Ray Automated Selection of Optimal Frames in NIR Iris Videos		
	Chris Jackett, Jennifer Lovell and Robert Ollington  Efficient Digital FFT Convolution with Boundary Kernel Renormalisation		
	Xueyan Dong, Michael Towsey, Jinglan Zhang, Jasmine Banks and Paul Roe A Novel Representation of Bioacoustic Events for Content-based Search in Field Audio Data		
	Houssem Chatbri, Keisuke Kameyama and Paul Kwan Sketch-Based Image Retrieval By Size-Adaptive and Noise-Robust Feature Description		
	Lei Tong, Jun Zhou, Chengyuan Xu, Yuntao Qian and Yongsheng Gao Soil Biochar Quantification via Hyperspectral Unmixing		
	Chamara Weerasekera, Mohamed Jaward and Nader Kamrani Robust ASL Fingerspelling Recognition Using Local Binary Patterns And Geometric Features		
	Tuan Q. Pham Parallel implementation of geodesic distance transform with application in superpixel segmentation		
	Daniela Moctezuma, Cristina Conde, Isaac Martín de Diego and Enrique Cabello Incremental Learning with soft-Biometric features for People Re-Identification in Multi-Camera Environments		
	Anders Landström, Matthew Thurley and Håkan Jonsson Sub-Millimeter Crack Detection in Casted Steel using Color Photometric Stereo		
	Matthew Thurley Automated Image Segmentation and Analysis of Rock Piles in an Open-Pit Mine		
	Kaneswaran Anantharajah, Simon Denman, Dian Tjondronegoro, Sridha Sridharan, Clinton Fookes and Felix Guo Quality based Frame Selection for Face Clustering in News Video		

	Mohammad Awrangjeb and Guojun Lu A Performance Review of Recent Corner Detectors
	Humayra Binte Ali and Professor David M W Powers WAPA and OEPA based Facial Expression Recognition
	Ruben Gonzalez Robust Ring Detection In Phase Correlation Surfaces
	Kapila Pahalawatta and Richard Green Particle Detection and Classification in Photoelectric Smoke Detectors using Image Histogram Features
	Umakanthan Sabanadesan, Simon Denman, Clinton Fookes and Sridha Sridharan Semi-Binary Based Video Features for Activity Representation
	Hussain Nyeem, Wageeh Boles and Colin Boyd Utilizing Least Significant Bit-Planes of RONI Pixels for Medical Image Watermarking
	Mafruha Mowrin Hossain, Abdullah A. Muhit, Mark R. Pickering, Jennie Scarvell and Paul Smith A 3D-2D Image Registration Algorithm for Kinematic Analysis of the Knee after Total Knee Arthroplasty (TKA)
	Fan Zhang, Yang Song, Weidong Cai, Yun Zhou, Shimin Shan and Dagan Feng Context Curves for Classification of Lung Nodule Images
	Yilun Fan, Yaniv Gal and Andrew Peter Bradley Performance Analysis of Three Microscope Slide Scanning Techniques
03:20pm-03:40pm	Afternoon tea
03:40pm-04:40pm	Keynote Speech 3: Images and Image Processing in Astronomy Session Chair: Paulo De Souza Presenter: Prof. John Dickey, Head of School of Mathematics and Physics, University of Tasmania, Australia
04:40pm-05:00pm	Closing