

23rd November 2015

Oral Session 1 9:50 – 10:30	Image based Modelling (Chair: Anders Eriksson)
	Non-Rigid Structure from Motion through Estimation of Blend Shapes <i>Peter Zhang, HKU; YS Hung, HKU</i> Creating Simplified 3D Models with High Quality Textures <i>Song Liu, University of Wollongong; Wanqing Li, ; Philip Ogunbona, ; Yang-Wai Chow</i>
Oral Session 2 11:00 – 12:40	Image Features and Filtering (Chair: Brian Lovell)
	Learning Temporal Alignment Uncertainty for Efficient Event Detection <i>Iman Abbasnejad, QUT; Sridha Sridharan, QUT; Simon Denman, QUT; Clinton Fookes, QUT; Simon Lucey, CMU</i>
	Random NL-Means to Restoration of Colour Images <i>Dariusz Borkowski, Nicolaus Copernicus University; Katarzyna Jańczak-Borkowska, University of Technology and Life Sciences</i>
	Improved Impulse Noise Removal with Generalized Median Filters <i>Duc-Son Pham, Curtin University</i>
	Morphology and Active Contour Model for Multifocus Image Fusion <i>Xiangzhi Bai, Beihang University, China; Miaoming Liu, Beihang University; Zhiguo Chen, Beihang University; Peng Wang, Beihang University; Yu Zhang, Beihang University</i>
DIC Microscopy Image Reconstruction Using a Novel Variational Framework <i>Krisztian Koos, HAS BRC; József Molnár, HAS BRC; Peter Horvath, HAS BRC</i>	
Oral Session 3 14:50 – 15:30	Medical Image Analysis - I (Chair: Andrew Bradley)
	Level set based segmentation of cell nucleus in fluorescence microscopy images using correntropy-based k-means clustering <i>Amin Gharipour, Griffith University; Alan Liew, Griffith University</i> Skin Hair Removal for 2D Psoriasis Images <i>Yasmeen George, Melbourne University; Mohammad Aldeen, Melbourne University; Rahil Garnavi, IBM Research</i>
Oral Session 4 16:00 – 17:40	Hyperspectral (Chair: Antonio Robles-Kelly)
	Relative Depth Estimation from Hyperspectral Data <i>Ali Zia, Griffith University; Jun Zhou, Griffith University; Yongsheng Gao, Griffith University</i>
	Exposure Adjustment for Hyperspectral Cameras <i>Ahmed Sohaib, NICTA; Antonio Robles-Kelly, NICTA</i>
	A Study of the Region Covariance Descriptor: Impact of Feature Selection and Image Transformations <i>Hayden Faulkner, The University of Adelaide; Ergnoor Shehu, University of Adelaide; Zygmunt Szpak, ACVT; Wojciech Chojnacki, ACVT; Jules Tapamo, The University of KwaZulu-Natal; Anthony Dick, University of Adelaide; Anton Van Den-Hengel, ACVT</i>
An evaluation of background subtraction algorithms on fused infrared-visible video streams <i>Stefan Becker, Fraunhofer IOSB; Norbert Scherer-Negenborn, Fraunhofer IOSB; Pooja Thakkar;</i>	

	<p>Wolfgang Hübner; Michael Arens</p> <p>Localized Deep Extreme Learning Machines for Efficient RGB-D Object Recognition <i>Hasan Firdaus Mohd Zaki, University of Western Australia; Ajmal Mian, University of Western Australia; Faisal Shafait, National University of Science and Technology, Pakistan</i></p>
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24th November 2015

<p>Oral Session 5 9:00 – 10:40</p>	<p>Image Recognition and Classification (Chair: Vincent Lepetit)</p> <p>Stacked Face De-noising Auto Encoders For Expression-Robust Face Recognition <i>Nadith Pathirage, Curtin University; Ling Li, Curtin University; Wanquan Liu, Curtin University</i></p> <p>Video Classification using Two-Dimensional Descriptors based on Spatial Gradient and Optical Flow <i>Xiaolin Tang, University of Wollongong; Salim Bouzerdoun, University of Wollongong; Son Lam Phung</i></p> <p>In-situ leaf classification using histograms of oriented gradients <i>Alex Olsen, James Cook University; Sunghyu Han, KoreaTech; Brendan Calvert, James Cook University; Peter Ridd, James Cook University; Owen Kenny, James Cook University.</i></p> <p>Robust Automatic Face Clustering in News Video <i>Kaneswaran Anantharajah, QUT; Simon Denman, QUT; Dian Tjondronegoro, QUT; Sridha Sridharan, QUT; Clinton Fookes, QUT</i></p> <p>Partitioning the Input Domain for Classification <i>Adrian Rechy Romero, CSIRO; Srimal Jayawardena, CSIRO; Mark Cox, CSIRO; Paulo Borges, CSIRO</i></p>
<p>Oral Session 6 12:00 – 12:40</p>	<p>Visual Surveillance - I (Chair: Anton van den Hengel)</p> <p>Violent Scene Detection using a Super Descriptor Tensor Decomposition <i>Muhammad Khokher, University of Wollongong; Abdesselam Bouzerdoun, University of Wollongong; Son Phung, University of Wollongong</i></p> <p>Camera Network Topology Estimation with Lighting Variation <i>Michael Zhu, University of Adelaide; Anton Van Den-Hengel, ACVT; Anthony Dick, University of Adelaide</i></p>
<p>Oral Session 7 14:30 – 15:30</p>	<p>Video Processing (Chair: Ajmal Mian)</p> <p>Smooth Globally Warp Locally: Video Stabilization using Homography Fields <i>William Liu, The University of Adelaide; Tat-Jun Chin, ACVT</i></p> <p>Bags of Affine Subspaces for Robust Object Tracking <i>Sareh Shirazi, QUT; Conrad Sanderson, NICTA; Chris McCool, QUT; Mehrtash Harandi, NICTA</i></p> <p>Automatic Preview Frame Selection for Online Videos</p>

25th November 2015

<p>Oral Session 8 9:00 – 10:40</p>	<p>Medical Image Analysis - II (Chair: Bjarne Ersboll)</p> <p>An Optimization Approach to Scanning Skin Direct Immunofluorescence Specimens <i>Asser Samak, University of Queensland; Arnold Wiliem, University of Queensland; Peter Hobson, Sullivan Nicolaides Pathology; Michael Walsh, Sullivan Nicolaides Pathology; Ted Ditchmen, Sullivan Nicolaides Pathology; Arne Troskie, Sullivan Nicolaides Pathology; Sarah Barksdale, Sullivan Nicolaides Pathology; Rhonda Edwards, Sullivan Nicolaides Pathology; Anthony Jennings, Sullivan Nicolaides Pathology; Brian Lovell, University of Queensland.</i></p> <p>Segmentation of Breast Masses in Local Dense Background using Adaptive Clip Limit-CLAHE <i>Shelda Sajeev, Flinders University; Mariusz Bajger, Flinders University; Gobert Lee, Flinders University</i></p> <p>Automated and Objective Assessment of Surgical Training: Detection of Procedural Steps on Videotaped Performances <i>Siddarth Jain, Northwestern University; Katherine Barsness, Ann & Robert H. Lurie Children's Hospital of Chicago; Brenna Argall, Northwestern University</i></p> <p>Automated Mass Detection in Mammograms using Cascaded Deep Learning and Random Forests <i>Neeraj Dhungel, University of Adelaide; Gustavo Carneiro, University of Adelaide; Andrew Bradley, University of Queensland</i></p> <p>Anatomical Skin Segmentation in Reflectance Confocal Microscopy with Weak Labels <i>Samuel Hames, University of Queensland; Marco Ardigò, San Gallicano Dermatological Institute, Italy; H. Peter Soyer, University of Queensland; Andrew Bradley, University of Queensland; Tarl Prow, University of Queensland.</i></p>
<p>Oral Session 9 12:00 – 12:40</p>	<p>Visual Tracking (Chair: Francois Chaumette)</p> <p>Monocular Human Motion Tracking with Non-connected Body Part Dependency <i>Jinglan Tian, Curtin University; Ling li, Curtin University; Wanquan Liu, Curtin University</i></p> <p>AFL Player Detection and Tracking <i>Hayden Faulkner, University of Adelaide; Anthony Dick, University of Adelaide</i></p>
<p>Oral Session 10 14:00 – 15:00</p>	<p>Medical Image Analysis - III (Chair: Murk Bottema)</p> <p>A Locally Constrained Random Walk Approach for Airway Segmentation of Low-Contrast Computed Tomography (CT) Image <i>Robin Huang, University of Sydney; Lei Bi, University of Sydney; Changyang Li, University of Sydney; Youn Hyun Jung, University of Sydney; Jinman Kim, University of Sydney; Michael Fulham, University of Sydney; David Feng, University of Sydney</i></p> <p>A New Model for the Segmentation of Multiple, Overlapping, Near-Circular Objects <i>Csaba Molnar, University of Szeged; Zoltan Kato, University of Szeged ; Ian Jermyn, University of Szeged</i></p>

	<p>Morphological Filtering and Hierarchical Deformation for Overlapping Cell Segmentation <i>Afaf Tareef, University of Sydney; Yang Song, University of Sydney; Min-Zhao Lee, Royal Prince Alfred Hospital, Australia; David Feng, University of Sydney ; Mei Chen, University of Albany State University of New York, USA; Weidong Cai, University of Sydney</i></p>
<p>Oral Session 11 15:30 – 16:30</p>	<p>Visual Surveillance - II (Chair: Manik Varma)</p>
	<p>Improving Near-Miss Event Detection Rate at Railway Level Crossings <i>Sina Aminmansour, QUT; Frederic Maire, QUT; Gregoire Larue, QUT; Christian Wullems, QUT</i></p>
	<p>Image Analysis-based Automatic Utility Pole Detection for Remote Surveillance <i>Hrishikesh Sharma, Tata Consultancy Services; Adithya V., Tata Consultancy Services; Tanima Dutta, Indian Institute of Technology; Balamuralidhar P., Tata Consultancy Services</i></p> <p>Unsupervised Processing of Vehicle Appearance for Automatic Understanding in Traffic Surveillance <i>Jakub Sochor, Brno University of Technology; Adam Herout, Brno University of Technology</i></p>