Workshops – Sunday 28 November

Griffith University, Gold Coast Campus G42 2.17 / Online

8:30-9:00	Registration
9:00-10:30	**Workshop 1** **Deep Learning with Images using MATLAB - a Hands-on Workshop – Part 1** *Dr Emmanuel Blanchard (MathWorks)*
10:30-10:45	Morning Tea
10:45-12:00	**Workshop 1** **Deep Learning with Images using MATLAB - a Hands-on Workshop – Part 2** *Dr Emmanuel Blanchard (MathWorks)*
12:00-13:00	Lunch
13:00-15:00	**Workshop 2** **Deep Learning for Medical Image Analysis** *Dr Yasmeen George (Deakin University); Dr Syed Islam (Edith Cowan University)*
15:00-15:15	Afternoon Tea
15:15-16:45	**Workshop 3** **Fundamentals of Deep Learning – Cloud-based GPU Deployment and Testing – Part 1** *Dr Abdul Bais (University of Regina); Dr Syed Afaq Shah (Murdoch University)*
16:45-17:00	Break
17:00-18:15	**Workshop 3** **Fundamentals of Deep Learning – Cloud-based GPU Deployment and Testing – Part 2** *Dr Abdul Bais (University of Regina); Dr Syed Afaq Shah (Murdoch University)*

Main Conference Day 1 – Monday 29 November

Hilton Surfers Paradise Ballroom / Online

8:00-8:45	Registration

8:45-9:00	**Conference Opening**
9:00-10:00	**Keynote 1** **What We've Learned about Creating Accurate Image Models Quickly and Easily** *Jeremy Howard (fast.ai, Australia)*
10:00-10:30	Morning Tea – Ballroom Pre-Function Area
10:30-12:10	**Oral Session 1 – Award Candidate Session**
10:30-10:50	**Quantum Annealing Formulation for Binary Neural Networks** *Michele Sasdelli (The University of Adelaide); Tat-Jun Chin (The University of Adelaide)*
10:50-11:10	**Semi-Supervised 3D Hand Shape and Pose Estimation with Label Propagation** *Samira Kaviani (Australian National University); Amir Rahimi (Australian National University); Richard Hartley (Australian National University)*
11:10-11:30	**View Synthesis with Multi-scale Cost Aggregation and Confidence Prior** *Qi Wu (Northwestern Polytechnical University); Xue Wang (Northwestern Polytechnical University); Qing Wang (Northwestern Polytechnical University and Pazhou Lab)*
11:30-11:50	**Learning To Segment Dominant Object Motion From Watching Videos** *Sahir Shrestha (Australian National University); Mohammad Ali Armin (CSIRO(Data61)); Hongdong Li (Australian National University); Nick Barnes (Australian National University)*
11:50-12:10	**A Seq2seq-based Model with Global Semantic Context for Scene Text Recognition** *Yili Huang (Shanghai Jiaotong University); shilin wang (Shanghai Jiaotong University); Chengyu Gu (Shanghai Jiao Tong University); Zheng Huang (Shanghai Jiao Tong University); Kai Chen Shanghai Jiao Tong University)*
12:10-13:10	Group photo and Lunch (Catch Restaurant)
13:10-14:10	**Keynote 2** **Using autonomous drones to map and explore underground mines** *Stefan Hrabar, Emesent, Australia*
14:10-14:50	**Poster Session 1 – 3-Minutes Spotlight** **Semantic Attribute Enriched Storytelling from a Sequence of Images** *Zainy M. Malakan (The University of Western Australia); Ghulam Mubashar Hassan (The University of Western Australia); Mohammad A. A. K. Jalwana (The University of Western Australia); Nayyer Aafaq (The*

University of Western Australia); Ajmal Mian (The University of Western Australia)

Efficient DNN-Based Classification of Whole Slide Gram Stain Images for Microbiology

Sarah Alhammad (The University of Queensland); Brian C Lovell (The University of Queensland); Kun Zhao (The University of Queensland); Sarah Alhammad (The University of Queensland)

Single-image object classification based on illuminette construction from shadow imaging

Lyle D Collins (DSTG); Antonio Robles-Kelly (Deakin University)

Resource Constrained Human Presence Detection for Indirect Time-of-Flight Sensors

Caterina Nahler (Graz University of Technology); Hannes Plank (Infineon Technologies Austria AG); Norbert Druml (Infineon); Chrisitan Steger (Technische Universität Graz)

Deep Learning Based Stereo Cost Aggregation on a Small Dataset

Rongcheng Wu (UNSW); Changming Sun (CSIRO Data61); Zhaoying Liu (Beijing University of Technology); Arcot Sowmya (UNSW)

Fully Convolutional Neural Network with Relation Aware Context Information for Image Parsing

Basim Azam (Central Queensland University); Ranju Mandal (Central Queensland University); Brijesh Verma (Central Queensland University)

Indoor Semantic Scene Understanding using Multi-modality Fusion

Muraleekrishna Gopinathan (Edith Cowan University); Giang Ha Truong (Edith Cowan University); Jumana Abu-Khalaf (Edith Cowan University)

Automatic Sheep Behaviour Analysis using Mask R-CNN

JingSong Xu (University of Technology Sydney); Qiang Wu (University of Technology Sydney); Jian Zhang (UTS); Amy Tait (University of New England)

Improved Spatio-temporal Action Localization for Surveillance Videos

Morgan Liang (University of New South Wales); Xun Li (University of New South Wales); Sandersan Onie (University of New South Wales); Mark Larsen (University of New South Wales); Arcot Sowmya (University of New South Wales)

A Multi-View DCNN Based Method for Breast Cancer Screening

Nouha Derbel (University of Sfax); Hédi TMAR (University of Sfax); Adel Mahfoudhi (University of Sfax)

	EAR-NET: Error Attention Refining Network For Retinal Vessel Segmentation *Jun Wang (King's College London); Yang Zhao (The University of Adelaide); Linglong Qian (King's College London); Xiaohan Yu (Griffith University); Yongsheng Gao (Griffith University)*
14:50-15:05	**Poster Session 1 – Q&A**
14:50-15:20	Afternoon Tea – Ballroom Pre-Function Area
15:20-16:35	**Oral Session 2 – Remote Sensing**
15:20-15:35	**High Definition LiDAR mapping of Perth CBD** *Muhammad Ibrahim (The University of Western Australia); Naveed Akhtar (The University of Western Australia); Mohammad Jalwana (The University of Western Australia); Michael Wise (The University of Western Australia); Ajmal Mian (The University of Western Australia)*
15:35-15:50	**Reduction of Feature Contamination for Hyper-Spectral Image Classification** *Sutharsan Mahendren (Queensland University of Technology); Tharindu Fernando (Queensland University of Technology); Sridha Sridharan (Queensland University of Technology); Peyman Moghadam (CSIRO); Clinton Fookes (Queensland University of Technology)*
15:50-16:05	**Cross-Modality Visual Question Answering for Remote Sensing** *RAFAEL FELIX (The University of Adelaide); Boris Repasky (Lockheed Martin); Reza Zolfaghari (Defence Science and Technology); Samuel Hodge (The University of Adelaide); Ehsan M Abbasnejad (The University of Adelaide); Jamie Sherrah (AIML)*
16:05-16:20	**AF-Net: All-scale Feature Fusion Network for Road Extraction from Remote Sensing Images** *Shide Zou (Nanjing University of Sciene Technology); Fengchao Xiong (Nanjing University of Science and Technology); Haonan Luo (Nanjing University of Science and Technology); Jianfeng Lu (Nanjing University of Science and Technology); Yuntao Qian (Zhejiang University)*
16:20-16:35	**Burnt Forest Estimation from Sentinel-2 Imagery of Australia using Unsupervised Deep Learning** *Nosheen Abid (Luleå University of Technology); Faisal Shafait (National University of Sciences and Technology); Imran Malik (National University of Sciences and Technology); Muhamad Shahzad (SEECs); Haider Ali (JHU); Muhammad Mohsin Ghaffar (TU Kaiserslautern); Norbert Wehn (TU Kaiserslautern); Christian Weis (DFKI)*
16:35-17:15	**Poster Session 2 – 3-Minutes Spotlight** **GuideNet: Learning Inter-Vertebral Guides in DXA Lateral Spine Images**

Zaid Ilyas (Edith Cowan University); Naeha Sharif (Edith Cowan University); John Schousboe (University of Minnesota); Joshua Lewis (Edith Cowan University); David Suter (Edith Cowan University); Syed Zulqarnain Gilani (Edith Cowan University)

Seagrass Detection from Underwater Digital Images using Faster R-CNN with NASNet

Md Kislu Noman (Edith Cowan University); Syed Islam (Edith Cowan University); Jumana Abu-Khalaf (Edith Cowan University); Paul Lavery (Edith Cowan University)

ODAR: A Lightweight Object Detection Framework for Autonomous Driving Robots

Hoang Duong Le (Griffith University); Huynh Trung (Griffith University); Minh Tâm Phạm (Hanoi University of Science and Technology); Gwangzeen Ko (Electronics and Telecommunications Research Institute); Jung Ick Moon (Electronics and Telecommunications Research Institute); Jun Jo (Griffith University); Quoc Viet Hung Nguyen (Griffith University)

Self-supervision, Remote Sensing and Abstraction: Representation Learning across 3 million locations

Sachith Seneviratne (University of Melbourne); Kerry Nice (University of Melbourne); Jasper Wijnands (The University of Melbourne); Jason H Thompson (University of Melbourne); Mark Stevenson (The University of Melbourne, Transport, Health and Urban Design Research Hub)

Building Boundary Extraction from LiDAR Point Cloud Data

Emon Kumar Dey (Griffith University); Mohammad Awrangjeb (Griffith University, Australia); Fayez Tarsha Kurdi (University of Southern Queensland); Bela Stantic (Griffith University)

Extraction of Forest Power lines From LiDAR point cloud Data

Nosheen Munir (Griffith University); Mohammad Awrangjeb (Griffith University, Australia); Bela Stantic (Griffith University)

Detection of Malleefowl Mounds from Point Cloud Data

Nahida Parvin (Federation University); Guojun Lu (Federation University); Singarayer Florentine (Federation University); Mohammad Awrangjeb (Griffith University); Manzur Murshed (Federation University); Marc Irvin (Department of Planning, Industry and Environment)

IoT-based Plant Health Analysis using Optical Sensors in Precision Agriculture

Hamid Bagha (Swinburne University of Technology); Ali Yavari (Swinburne University of Technology); Dimitrios Georgakopoulos (Swinsburne University of Technology)

Mask-Guided Feature Extraction and Augmentation for Ultra-Fine-Grained Visual Categorization

	Zicheng Pan (Griffith University); Xiaohan Yu (Griffith University); Miaohua Zhang (Griffith University); Yongsheng Gao (Griffith University) **Social E-commerce Tax Evasion Detection: UsingMulti-modal Deep Neural Networks** *Lelin Zhang (University of Technology Sydney); Xi Nan (The University of Sydney); Eva Huang (The University of Sydney); Sidong Liu (Macquarie University)* **Multi-Stratification Feature Selection for Multiple Brain regions application** *Lin Zhang (The University of Sydney); Bowen Xin (The University of Sydney); Shaozhen Yan (Capital Medical University); Chaojie Zheng (United Imaging Healthcare Group Co., Ltd); Yun Zhou (United Imaging Healthcare Group Co., Ltd); Jie Lu (Capital Medical University); Xiuying Wang (The University of Sydney)* **QuantYOLO: A High-Throughput and Power-Efficient Object Detection Network for Resource and Power Constrained UAVs** *Muhammad Gohar Javed (National University of Sciences and Technology); Minahil Raza (National University of Sciences and Technology); Muhammad Mohsin Ghaffar (TU Kaiserslautern); Christian Weis (TU Kaiserslautern); Faisal Shafait (National University of Sciences and Technology); Norbert Wehn (TU Kaiserslautern); Muhammad Shahzad (Technical University of Munich)*
17:15-17:30	**Poster Session – 2 Q&A**
18:00-20:00	**Welcome Reception – Ballroom Pre-Function Area**

Main Conference Day 2 – Tuesday 30 November

Hilton Surfers Paradise Ballroom / Online

8:30-9:00	Registration
9:00-10:00	**Keynote 3** **Computer and Robot Vision** *Professor Mohammad Bennamoun, The University of Western Australia, Australia*
10:00-10:30	Morning Tea – Ballroom Pre-Function Area
10:30-11:50 10:30-10:45	**Oral Session 3 – Medical Imaging** **Brain MRI Motion Artifact Reduction using 3D Conditional Generative Adversarial Networks on Simulated Motion**

	Mina Ghaffari (Macquarie University); Kamlesh Pawar (Monash University); Ruth A Oliver (Macquarie University); Atul Minhas (Macquarie University)
10:45-11:00	**Two-stage U-Net++ for Medical Image Segmentation** *Abdulla Al Suman (University of New South Wales); Shubham Sarda (Indian Institute of Technology); Md Asikuzzaman (University of New South Wales); Alexandra Louise Webb (Australian National University); Diana Perriman (The Canberra Hospital); Murat Tahtali (University of New South Wales); Antonio Di Ieva (Macquarie University); Mark Pickering (University of New South Wales)*
11:00-11:15	**Slim-YOLO: A Simplified Object Detection Model for the Detection of Pigmented Iris Freckles as a Potential Biomarker for Cutaneous Melanoma** *Dilmi Nu Naranpanawa (The University of Queensland); Yanyang Gu (The University of Queensland); Shekhar S Chandra (University of Queensland); Peter Soyer (); Brigid Betz-Stablein (The University of Queensland Diamantina Institute); Rick Sturm (The University of Queensland Diamantina Institute); Anders Eriksson (University of Queensland)*
11:15-11:30	**OCT Retinal Image-To-Image Translation: Analysing the Use of Cyclegan to Improve Retinal Boundary Semantic Segmentation** *Ignacio A Viedma Escalona (Queensland University of Technology); David Alonso-Caneiro (Queensland University of Technology); Scott Read (Queensland University of Technology); Michael Collins (Queensland University of Technology)*
11:30-11:45	**Resetting the Baseline: CT-Based COVID-19 Diagnosis with Deep Transfer Learning is not as Accurate as Widely Thought** Fouzia Altaf (Edith Cowan University); Syed Islam (Edith Cowan University); Naveed Akhtar (The University of Western Australia)
11:50-13:00	Lunch – Catch Restaurant
13:00-13:45	**Oral Session 4 – Machine Learning**
13:00-13:15	**Automatic Pruning for Quantized Neural Networks** *Luis Guerra (Monash University); Tom Drummond (University of Melbourne)*
13:15-13:30	**Streaming Multi-layer Ensemble Selection using Dynamic Genetic Algorithm** *Vu Anh Luong (Griffith University); Thanh Tien Nguyen (Robert Gordon University); Alan Liew (Griffith University)*
13:30-13:45	**License Plate Detection and Recognition System for All Types of Bangladeshi Vehicles Using Multi-step Deep Learning Model**

	Homaira Huda Shomee (BRAC University); Ataher Sams (Bangladesh University of Engineering and Technology)
13:45-14:25	**Poster Session 3 – 3-Minutes Spotlight** **Three-Dimensional Tumour Microenvironment Reconstruction and Tumour-Immune Interactions' Analysis** *Panagiotis Barmpoutis (University College London); Hamzeh Kayhanian (University College London); William Waddingham (University College London); Daniel Alexander (University College London); Marnix Jansen (University College London)* **Texture Enhanced Statistical Region Merging with Application to Automatic Knee Bones Segmentation from CT** *Michael Howes (Creative Lighting); Mariusz Bajger (Flinders University); Gobert Lee (Flinders University); Francesca Bucci (Flinders University); Saulo Martelli (Queensland University of Technology)* **HEp-2 Specimen Cell Detection and Classification Using Very Deep Convolutional Neural Networks-Based Cell Shape** *Khamael A Al-Dulaimi (Queensland University of Technology); Brandon Jorgensen (Queensland University of Technology); Jasmine Banks (Queensland University of Technology)* **Elimination of Central Artefacts of L-SPECT with Modular Partial Ring Detectors by Shifting Center of Scanning** *Manu Francis (University of New South Wales); Murat Tahtali (University of New South Wales); Mark Pickering (University of New South Wales)* **Multi-Dataset Benchmarks for Masked Identification using Contrastive Representation Learning** *Sachith H Seneviratne (University of Melbourne); Nuran R Kasthuriarachchi (University of Moratuwa); Sanka Rasnayaka (National University of Singapore)* **Protecting Deep Cerebrospinal Fluid Cell Image Processing Models with Backdoor and Semi-Distillation** *Fangqi Li (Shanghai Jiaotong University); Shilin Wang (Shanghai Jiaotong University); Zhenhai Wang (Ningxia Medical University General Hospital)* **Overlapping Cell Nuclei Segmentation in Digital Histology Images using Intensity-based Contours** *Md Shamim Hossain (Edith Cowan University); Leisa Armstrong (Edith Cowan University); Jumana Abu-Khalaf (Edith Cowan University); David Cook (Edith Cowan University); Pauline Zaenker (Edith Cowan University)* **Image Data Augmentation for Improving Performance of Deep Learning-Based Model in Pathological Lung Segmentation**

	Md Shariful Alam (University of New South wales); Arcot Sowmya (University of New South wales); Dadong Wang (CSIRO) **Use of Uncertainty Quantification as a Surrogate for Layer Segmentation Error in Stargardt's Disease Retinal OCT Images** *David Alonso-Caneiro (Queensland University of Technology); Jason Kugelman (Queensland University of Technology); Janelle Tong (Centre for Eye Health); Michael Kalloniatis (University of New South Wales); Fred Chen (Lions Eye Institute); Scott Read (Queensland University of Technology); Michael Collins (Queensland University of Technology)* **OCT Chorio-Retinal Segmentation with Adversarial Loss** *Jason Kugelman (Queensland University of Technology); David Alonso-Caneiro (Queensland University of Technology); Scott Read (Queensland University of Technology); Stephen Vincent (Queensland University of Technology); Michael Collins (Queensland University of Technology)* **Similarity Learning based Few Shot Learning for ECG Time Series Classification** *Priyanka Gupta (CVR College of Engineering); Sathvik Bhaskarpandit (Birla Institute of Technology and Science, Pilani); Manik Gupta (Birla Institute of Technology and Science, Pilani)* **GAN-based Spatial Transformation Adversarial Method for Disease Classification on CXR Photographs by Smartphones** *Chak Fong Chong (Macao Polytechnic Institute); Xu Yang (Macao Polytechnic Institute); Wei Ke (Macao Polytechnic Institute); Yapeng Wang (Macao Polytechnic Institute)*
14:25-14:40	**Poster Session 3 – Q&A**
14:30-15:00	Afternoon Tea – Ballroom Pre-Function Area
15:00-15:45	**Oral Session 5 – 3D Data Processing**
15:00-15:15	**3D Morphable Ear Model: A Complete Pipeline from Ear Segmentation to Statistical Modeling** *Md Mursalin (Edith Cowan University); Syed Islam (Edith Cowan University); Syed Zulqarnain Gilani (Edith Cowan University)*
15:15-15:30	**Full Series Algorithm of Automatic Building Extraction and Modelling From LiDAR Data** *Fayez Tarsha Kurdi (University of Southern Queensland); Zahra Gharineiat (University of Southern Queensland); Glenn Campbell (University of Southern Queensland); Emon Kumar Dey (Griffith University); Mohammad Awrangjeb (Griffith University)*
15:30-15:45	**Edge Aware Commonality Modeling based Reference Frame for 360 Degree Video Coding**

	Ashek Ahmmed (Charles Sturt University), Mark Pickering (University of New South Wales); Andrew Lambert (University of New South Wales); Manoranjan Paul (Charles Sturt University)
15:45-16:20	**Poster Session 4 – 3-Minutes Spotlight** **Lumbar Spine CT synthesis from MR images using CycleGAN** *Gobert Lee (Flinders University); Mariusz Bajger (Flinders University); Minh-Son To (Flinders University); Adam Wells (The University of Adelaide); Chee Chong (Flinders Medical Centre); Marc Agzarian (Flinders Medical Centre); Santosh Poonnoose (Flinders Medical Centre)* **Towards Automated Performance Assessment for Laparoscopic Box Trainer using Cross-Stage Partial Network** *Koloud Alkhamaiseh (Western Michigan University); Janos Grantner (Western Michigan University); Ikhlas Abdel-Qader (Western Michigan University); Saad Shebrain (Western Michigan university)* **Rapid Segmentation of Thoracic Organs using U-Net Architecture** *Hassan Mahmood (Edith Cowan University); Syed Islam (Edith Cowan University); James Hill (Singular Health); Guan Tay (Singular Health)* **Video-Based Cattle Identification and Action Recognition** *Chuong Nguyen (CSIRO Data61); Dadong Wang (CSIRO Data61); Karl Von Richter (CSIRO Data61); Philip Valencia (CSIRO Data61); Flavio Alvarenga (NSW Department of Primary Industries); Gregory Bishop-Hurley (CSIRO Food and Agriculture)* **Combining Data Augmentation and Domain Distance Minimisation to Reduce Domain Generalisation Error** *Hoang Son Le (The University of Adelaide); Rini Akmeliawati (The University of Adelaide); Gustavo Carneiro (The University of Adelaide)* **A Comparison of Saliency Methods for Deep Learning Explainability** *Salamata Konate (Queensland University of Technology); Leo Lebrat (CSIRO); Rodrigo Santa Cruz (CSIRO); Elliot Smith (Maxwell plus); Clinton Fookes (Queensland University of Technology); Andrew Bradley (Queensland University of Technology); Olivier Salvado (Australian e-Health Research Centre)* **A Chaos Theory Approach to Understand Neural Network Optimization** *Michele Sasdelli (The University of Adelaide); Thalaiyasingam Ajanthan (Australian National University); Tat-Jun Chin (The University of Adelaide); Gustavo Carneiro (The University of Adelaide)* **Robust Re-identification of Manta Rays from Natural Markings by Learning Pose Invariant Embeddings** *Olga Moskvyak (Queensland University of Technology); Frederic Maire (Queensland University of Technology); Asia Armstrong (The University*

	of Queensland); Feras Dayoub (Queensland University of Technology); Mahsa Baktashmotlagh (University of Queensland) **A Generative Deep Learning Approach for Forensic Facial Reconstruction** *Mitchell S Hargreaves (Monash University); David H Ting (Monash University); Stephen A Bajan (Monash University); Kamron B Bhavnagri (Monash University); Richard Bassed (Victorian Institute of Forensic Medicine); Xiaojun Chang (RMIT University)* **Incremental Learning of Object Detector with Limited Training Data** *Adnan Ul-Hasan (National Center of Artificial Intelligence); Abdullah Hafeez (National University of Sciences and Technology); Faisal Shafait (National University of Sciences and Technology)* ***The Role of Machine Learning in Game Development Domain - A Review of Current Trends and Future Directions*** *Syed Afaq Ali Shah (Murdoch University)* **Point Cloud Registration with Self-supervised Feature Learning and Beam Search** *Guofeng Mei (UTS)*
16:20-16:35	**Poster Session 4 – Q&A**
16:35-17:35	**APRS AGM**
18:00-22:30	Skypoint Tour + Banquet + Award Ceremony

Main Conference Day 3 – Wednesday 1 December

Hilton Surfers Paradise Ballroom / Online

8:30-9:00	Registration
9:00-10:00	**Keynote 4** **Towards Deep Visual Understanding: from Perception to Cognition** *Tao Mei, JD.COM, China*
10:00-10:30	Morning Tea – Ballroom Pre-Function Area
10:30-11:45 10:30-10:45	**Oral Session 6 – Computer Vision** **SimilarityGAN: Using Similarity to Loosen Structural Constraints in Generative Adversarial Models** *Supratik Mukhopadhyay (Louisiana State University); Edward Collier (Louisiana State University)*

10:45-11:00	**Identifying Bikers Without Helmets Using Deep Learning Models** *Md. Iqbal Hossain (BRAC University); Raghib Barkat Muhib (BRAC University); Amitabha Chakrabarty (BRAC University)*
11:00-11:15	**A Novel Class-wise Forgetting Detector in Continual Learning** *Cuong X Pham (Griffith University); Alan Liew (Griffith University); Can Wang (Griffith University)*
11:15-11:30	**Putting Current State Object Detectors to the Test: Towards Industry Applicable Leather Surface Defect Detection** *Masood Aslam (COMSATS University Islamabad); Tariq M Khan (Deakin University); Syed S Naqvi (COMSATS University Islamabad); Geoff Holmes (Leather & Shoe Research Association)*
11:30-11:45	**Semi-supervised Learning via Conditional Rotation Angle Estimation** *Haiming Xu (The University of Adelaide); Lingqiao Liu (University of Adelaide); Dong Gong (The University of Adelaide)*
11:45-13:00	Lunch – Catch Restaurant
13:00-14:45	**Oral Session 7 – Detection and Classification**
13:30-13:45	**Modeling Human Skeleton Joint Dynamics for Fall Detection** *Sania Zahan (The University of Western Australia); Ghulam Mubashar Hassan (The University of Western Australia); Ajmal Mian (The University of Western Australia)*
13:45-14:00	**A Compositional Feature Embedding and Similarity Metric for Ultra-Fine-Grained Visual Categorization** *Yajie Sun (Griffith University); Miaohua Zhang (Griffith University); Xiaohan Yu (Griffith University); Yi Liao (Griffith University); Yongsheng Gao (Griffith University)*
14:00-14:15	**Domain Adaptation for Plant Organ Detection with Style Transfer** *Chrisbin James (The University of Queensland); Yanyang Gu (The University of Queensland); Scott Chapman (The University of Queensland); Wei Guo (The University of Tokyo); Etienne David (Arvalis, Institut du végétal); Simon Madec (Arvalis); Andries Potgieter (The University of Queensland); Anders Eriksson (The University of Queensland)*
14:15-14:30	**Flood Detection in Social Media Using Multimodal Fusion on Multilingual Dataset** *Rabiul Islam Jony (Queensland University of Technology); Alan Woodley (Queensland University of Technology); Dimitri Perrin (Queensland University of Technology)*
14:30-14:45	**Multi-Resolution ResNet for Road and Bridge Crack Detection**

	Fereshteh Nayyeri (Griffith University); Jun Zhou (Griffith University)
14:45-15:15	Afternoon Tea – Ballroom Pre-Function Area
15:15-16:30	**Oral Session 8 – Applications** **SCMNet: Shared Context Mining Network for Real-time Semantic Segmentation** *Tanmay Singha (Curtin University); Moritz Bergemann (Curtin University); Duc-Son Pham (Curtin University); Aneesh Krishna (Curtin University)* **Edge-enhanced Instance Segmentation of Wrist CT via a Semi-Automatic Annotation Database Construction Method** *Xiaoxu Li (University of Technology Sydney); Yu Peng (StraxCorp); Min Xu (University of Technology Sydney)* **Attention-based Long-term Modeling for Deep Visual Odometry** *Sangni Xu (The University of Sydney); Hao Xiong (Macquarie University); Qiuxia Wu (South China University of Technology); Zhiyong Wang (The University of Sydney)* **RE-Net: A Convolutional Neural Network for Retinal Vessel Segmentation** Tariq M Khan (Deakin University); Antonio Robles-Kelly (Deakin University); Syed S Naqvi (COMSATS University Islamabad) **Deep Adaptive Few Example Learning for Microscopy Image Cell Counting** *Meng Li (The University of Queensland); Kun Zhao (The University of Queensland); Can Peng (the University of Queensland); Brian Lovell (The University of Queensland)*
16:30-16:50	APRS Early career researcher award talk
16:50-16:55	**Conference Closing**