Program times are listed in Australian Eastern Daylight Time Sydney (GMT+11).
Workshops will be held on University of Sydney Business School. ABS Lecture Theatre 1040 / Online.
Main Conference will be held on Rydges World Square 389 Pitt Street, Sydney NSW 2000 / Online.

Workshops – 29 November

University of Sydney Business School. ABS Lecture Theatre 1040 / Online

8:30-8:45	Registration
8:45-9:15	**Keynote 1: TBD** *Speaker: Dr. Dong Gong, University of New South Wales*
9:15-9:45	**Keynote 2: TBD** *Speaker: Dr. Xin Yu, University of Technology Sydney*
9:45-10:15	Morning Tea
10:15-12:00	**DSTG Workshop**
12:00-13:00	Lunch
13:00-13:45	**Mentoring Program – TBD** *Dr. Yadan Luo, University of Queensland*
13:45-14:30	**Mentoring Program – TBD** *Dr. Clement Canonne, University of Sydney*
14:30-15:00	Mentoring Program - Network Session and Afternoon Tea
15:00-15:30	**DICTA&PRCV Joint Workshop - Keynote 3: TBD**
15:30-17:00	**DICTA&PRCV Joint Workshop - Paper presentation session (12 minutes each)**

Summary

Main Conference Day 1 – 30 November – Rydges / Online

8:00-8:45	Registration
8:45-9:00	**Conference Opening** *DSTG Speaker: Dr. Sebastien Wong*
9:00-10:00	**Keynote 1** *Speaker: Prof. Alan Yuille, Johns Hopkins*
10:00-10:30	Morning Tea
10:30-11:45	**Oral Session 1 – Computer Vision 1 (15 minutes each)** *5 papers*
11:45-12:00	Group photo
12:00-13:00	Lunch

13:00-14:00	**Keynote 2** – TBD *Speaker: Prof. Philip Torr, Oxford University*
14:00-14:45	**Poster Session 1 Short Presentation – Virtual 3 Minutes Each** *15 papers*
14:45-15:00	**Poster Session 1 Q&A – Rooms**
15:00-15:30	Afternoon Tea
15:30-16:45	**Oral Session 2 – Image Analysis and Understanding (15 minutes each)** *5 papers*
16:45-17:30	**Poster Session 2 Short Presentation – (3 minutes each)** *15 papers*
17:30-17:45	**Poster Session 2 Q&A – 4 Rooms**
17:45-18:45	**APRS AGM**

Main Conference Day 2 – 1 December – Rydges / Online

8:30-9:00	Registration
9:00-10:00	**Keynote 3** *Speaker: Prof. Anton van den Hengel, Adelaide*
10:00-10:30	Morning Tea
10:30-11:15	**Oral Session 3 – Remote Sensing (15 minutes each)** *3 papers*
12:00-13:00	Lunch
13:00-14:00	Invited Talk: Early Career Award
14:00-14:45	**Oral Session 4 – Human behavior analysis (15 minutes each)** *3 papers*
15:00-15:30	Afternoon Tea
15:30-16:45	**Oral Session 5 – Machine learning (15 minutes each)** *5 papers*
16:45-17:30	**Poster Session 3 Short Presentation – (3 minutes each)**
17:30-17:45	**Poster Session 3 Q&A**
18:30-21:30	**Banquet (Awards, Acknowledgment etc.)**

Main Conference Day 3 – 2 December – Rydges / Online

8:30-9:00	Registration
9:00-10:00	**Keynote 4** *Speaker: Prof. Hongdong Li, ANU*

10:00-10:30	Morning Tea
10:30-12:00	**Oral Session 6 – Computer Vision 2 (15 minutes each)** *6 papers*
12:00-13:00	Lunch
13:30-15:00	**Oral Session 7 – E-Health and Medical Image Analysis (15 minutes each)** *6 papers*
15:00-15:30	Afternoon Tea
15:30-17:15	**Oral Session 8 - Applications (15 minutes each)** *7 papers*
17:15-17:30	Conference Closing

Full Program

Main Conference Day 1 – 30 November

Rydges / Online

8:00-8:45	Registration
8:45-9:00	**Conference Opening** DSTG Speaker: *Dr. Sebastien Wong*
9:00-10:00	**Keynote 1** Speaker: *Prof. Alan Yuille, Johns Hopkins*
10:00-10:30	Morning Tea
10:30-11:45	**Oral Session 1 – Computer Vision 1 (15 minutes each)**
10:30-10:45	**Robust Knowledge Adaptation for Federated Unsupervised Person ReID** *Jianfeng Weng (University of Sydney); Kun Hu (The Univeristy of Sydney)*; Tingting Yao (Dalian Maritime University); Jingya Wang (ShanghaiTech University); Zhiyong Wang (The University of Sydney)*

10:45-11:00	**Prompt-guided Scene Generation for 3D Zero-Shot Learning** *Majid Nasiri (SRTTU); Ali Cheraghian (Australian National University (ANU))*; Townim Faisal Chowdhury (North South University); Sahar Ahmadi (University of Technology Sydney); Morteza Saberi (University of Technology, Sydney); Shafin Rahman (North South University)*
11:00-11:15	**Stereo Saliency Detection by Modeling Concatenation Cost Volume Feature** *Peipei Song (Australian National University)*; Jing Zhang (Australian National University); Piotr Koniusz (Data61/CSIRO, ANU); Nick Barnes (ANU)*
11:15-11:30	**Local quality assessment of patient specific synthetic-CT via voxel-wise analysis** *Hilda Chourak (CSIRO)*; Anais Barateau (Univ Rennes, CLCC Eugène Marquis, INSERM, LTSI - UMR 1099); Jean-Claude Nunes (Universite de Rennes 1); Peter Greer (Calvary Mater Newcastle); Safaa Tahri (Universite Rennes 1); Caroline Lafond (Univ Rennes, CLCC Eugène Marquis, INSERM, LTSI - UMR 1099); Renaud de Crevoisier (Univ Rennes, CLCC Eugène Marquis, INSERM, LTSI - UMR 1099); Jason A Dowling (CSIRO Australian e-Health Research Centre); Oscar Acosta (Laboratoire Traitement du Signal et de l'Image, Rennes, France)*
11:30-11:45	**Do You Really Mean That? Content Driven Audio-Visual Deepfake Dataset and Multimodal Method for Temporal Forgery Localization** *Zhixi Cai (Monash University)*; Kalin Stefanov (Monash University); Abhinav Dhall (Indian Institute of Technology Ropar); Munawar Hayat (Monash University)*
11:45-12:00	Group Photo
12:00-13:00	Lunch
13:00-14:00	**Keynote 2** Speaker: *Prof. Philip Torr, Oxford University*
14:00-14:45	**Poster Session 1 – Virtual 3 Minute Spotlight**
1	**Augmenting Ego-Vehicle for Traffic Near-Miss and Accident Classification Dataset using Manipulating Conditional Style Translation** *Muhamad Hilmil Muchtar Aditya Pradana (National Institute of Information and Communications Technology)*; Minh-Son Dao (National Institute of Information and Communications Technology); Koji Zettsu (National Institute of Information and Communications Technology)*
2	**Towards Generalized Deepfake Detection With Continual Learning On Limited New Data** *He Huang (University of New South Wales Canberra); Nan Sun (University of New*

	South Wales Canberra); Xufeng Lin (Deakin University); Nour Moustafa (UNSW Canberra at ADFA)*
3	**Convolution-mix-Transformer Generator model to synthesize PET images from CT scans** *Trung Nguyen Thanh (Dept. of Medical Equipment, 108 Military Central Hospital); Linh Le Pham Van (University of Engineering and Technology, Vietnam National University); Trang Pham Ngoc Anh (University of Engineering and Technology, Vietnam National University); Chi Thanh Nguyen (Institute of Information Technology); Duc Chu Minh (Dept. of Medical Equipment, 108 Military Central Hospital Hanoi); Quốc Long Trần (VNU University of Engineering and Technology)**
4	**Automatic Malleefowl Mound Detection using Robust LiDAR-based Features and Classification** *Nazia Hossain (Federation University Australia)*; Manzur Murshed (Federation University Australia); Guojun Lu (Federation University Australia); Mohammad Awrangjeb (Griffith University, Australia); Singarayer Florentine (Federation University Australia); Marc Irvin (Department of Planning and Environment); Shyh Wei Teng (Federation University Australia)*
5	**Single image rain removal using cWGAN network** *Bijaylaxmi Das (Indian Institute of Technology Kharagpur); Sudipta Mukhopadhyay (IIT Kharagpur)**
6	**MULTI-DOMAIN THERMAL OBJECT DETECTION USING GENERATIVE ADVERSARIAL NETWORKS** *Moataz Eltahan (Cairo University)*; Khaled Elsayed (Cairo University)*
7	**Evaluating the performance of different convolutional neural networks in glaucoma detection** *Isaac Colleran (Curtin University); Janardhan Vignarajan (Commonwealth Scientific and Industrial Research Organisation); Shaun Frost (Commonwealth Scientific and Industrial Research Organisation); SAJIB K SAHA (Commonwealth Scientific and Industrial Research Organisation)*
8	**A REGION ADAPTIVE MOTION ESTIMATION STRATEGY LEVERAGING ON THE EDGE POSITION DIFFERENCE MEASURE** *Ashek Ahmmed (CSU)*; Manoranjan Paul (Charles Sturt University, Australia); Manzur Murshed (Federation University Australia); Andrew Lambert (University of New South Wales); Mark Pickering (UNSW Canberra)*
9	**A Keypoint Filtering Method for SIFT-based Palm-Vein Recognition** *Kaveen Perera (Northumbria University)*; Fouad Khelifi (Northumbria University); Ammar Belatreche (Northumbria University)*

10	**Kidney Tumor Segmentation and Classification using Deep Neural Network on CT Images** *Md Humaion Kabir Mehedi (BRAC UNIVERSITY)*; Ehteshamul Haque (BRAC UNIVERSITY); Sameen Yasir Radin (BRAC University); Md. Abrar Ur Rahman (BRAC University); Md Tanzim Reza (BRAC University); Dr. Md. Golam Rabiul Alam (BRAC University)*
11	**Backpropagation Based Deep Multispectral VO Drift Elimination** *Amar A. N. Khan (city university of London)*; Nabil Aouf (City-AC, UK)*
12	**Transformer with enhanced encoder and monotonic decoder for Automatic Speech recognition** *Priyabrata Karmakar (Federation University Australia)*; Shyh Wei Teng (Federation University Australia); Guojun Lu (Federation University Australia)*
13	**A Lightweight Image Decolorization Approach based on Contrast Preservation** *Dilara Görmez (Kocaeli University); Orhan Akbulut (Kocaeli University)**
14	**Eating Activity Monitoring in Home Environments Using Smartphone-based Video Recordings** *Chunzhuo Wang (KU Leuven); SUNILKUMAR TELAGAM SETTI (KU Leuven)*; Gilles Markvoort (Goodix Multimedia solutions); Jérémy Caby (KU Leuven); Hans Hallez (KU Leuven); Bart Vanrumste (KU Leuven)*
15	**A Concise Review on Deep Learning for Musculoskeletal X-ray Images** *Zaenab Alammar (QUT)*; Laith Alzubaidi (Queensland university of technology); Jinglan Zhang (Queensland University of Technology); Jos´e Santamar´ıa (University of Jaen); Yuefeng Li (Queensland University of Technology)*
14:45-15:00	**Poster Session 1 – Q&A**
15:00-15:30	Afternoon Tea
15:30-16:45	**Oral Session 2 – Image Analysis and Understanding (15 minutes each)**
15:30-15:45	**Semantic multi-modal reprojection for robust visual question answering** *Akib Mashrur (Deakin University)*; Wei Luo (Deakin University); Nayyar Zaidi (Deakin University); Antonio Robles-Kelly (Deakin University)*
15:45-16:00	**Machine Vision Approach for Slipper Lobster Weight Estimation** *Jonathon M Holder (Griffith University)*; Bongraoi Arebaio (Griffith University); Andrew Busch (Griffith University)*

16:00-16:15	**An energy-efficient AkidaNet for morphologically similar weeds and crops recognition at the Edge** *Vi Nguyen Thanh Le (BrainChip Research Institute)*; Kevin Tsiknos (BrainChip); Kristofor Carlson (BrainChip); Selam Ahderom (Edith Cowan University)*
16:15-16:30	**Understanding the Effect of Smartphone Cameras on Estimating Munsell Soil Color from Imagery** *Ricky J Sinclair (Charles Sturt University)*; Ashad Kabir (Charles Sturt University)*
16:30-16:45	**Deep Learning For Pose Estimation From Event Camera** *Ahmed Tabia (IBISC)*; Fabien Bonardi (IBISC); Samia Bouchafa (IBISC)*
16:45-17:30	**Poster Session 2 – 3-Minute Spotlight**
1	**MKIS-Net: A Light-Weight Multi-Kernel Network for Medical Image Segmentation** *Tariq M Khan (University of New South Wales)*; Muhammad Arsalan (Division of Electronics and Electrical Engineering, Dongguk University, 30 Pildong-ro, 1-gil, Jung-gu, Seoul 100-715); Antonio Robles-Kelly (Deakin University); Erik Meijering (University of New South Wales)*
2	**SARFish: Space-Based Maritime Surveillance Using Complex Synthetic Aperture Radar Imagery** *Tan V Cao (Defence Science and Technology Group)*; Connor Luckett (Defence Science and Technology Group); Jerome Williams (Defence Science and Technology Group); Tristrom Cooke (Defence Science and Technology Group); Ben Yip (Defence Science and Technology Group); Arvind Rajagopalan (Defence Science and Technology Group); Sebastien Wong (Defence Science and Technology Group)*
3	**Regional Video Object Segmentation by Efficient Motion-Aware Mask Propagation** *Bo Miao (University of Western Australia)*; Mohammed Bennamoun (University of Western Australia); Yongsheng Gao (Griffith University); Ajmal Mian (University of Western Australia)*
4	**ISAR Ship Classification Using Metadata Features** *Luke Rosenberg (DSTG)*; Weiliang Zhao (Macquarie University); Anthony Heng (Macquarie University); Nabaraj Dahal (ElmTek); Len Hamey (Computing Department, Macquarie University, NSW 2109); Mehmet Orgun (Macquarie University)*
5	**Learning Dense Correspondence from Synthetic Environments** *Mithun Lal (QUT/CSIRO)*; Anthony Paproki (QUT/CSIRO); Nariman Habili (Data61); Lars Petersson (Data61/CSIRO); Olivier Salvado (CSIRO); Clinton Fookes (Queensland University of Technology)*

6	**Automatic Cattle Identification using YOLOv5 and Mosaic Augmentation: A Comparative Analysis** *Rabin Dulal (Charles Sturt University)*; Lihong Zheng (Charles Sturt University Australia); Ashad Kabir (Charles Sturt University); Shawn McGrath (Charles Sturt University); Jonathan Medway (Charles Sturt University); Dave Swain (TerraCipher); Will Swain (TerraCipher)*
7	**Feature Extractor Based on Class Specific Hidden Neuron Activations for Image Classification** *Deepthi Praveenlal Kuttichira (Griffith University)*; Brijesh Verma (Griffith University); Basim Azam (Griffith University); Ashfaqur Rahman (Data61, CSIRO); Lipo Wang (Nanyang Technological University)*
8	**Adversarial Domain Adaptation for Action Recognition Around the Clock** *Anwaar Ulhaq (Charles Sturt University)**
9	**Image-based Detection of Dyslexic Readers from 2-D Scan path using an Enhanced Deep Transfer Learning Paradigm** *Jothi Prabha P Appadurai (Kakatiya Institute of Technology & Science)*; Boddireddy Rama (Kakatiya University); Vishnu Priya Enugula (Kakatiya Institute of Technology & Science); Tarasvi Lakum (Kakatiya Institute of Technology & Science)*
10	**FaceCook: Attribute-Controllable Face Generation Based on Linear Scaling Factors** *Tianren Wang (The University of Queensland)*; can peng (the University of Queensland); Teng Zhang (The University of Queensland); Brian C Lovell (University of Queensland)*
11	**Unified Framework for Effective Knowledge Distillation in Single-stage Object Detectors** *Aninda Saha (The University of Queensland)*; Alina N Bialkowski (The University of Queensland); Sara Khalifa (CSIRO)*
12	**Rethinking decoupled training with bag of tricks for long-tailed recognition** *Arthur Cartel Foahom Gouabou (Laboratoire d'Informatique et Système)*; Rabah Iguernaissi (Aix-Marseille Univ); Jean-Luc Damoiseaux (Laboratoire d'Informatique et Système); Abdellatif Moudafi (Laboratoire d'Informatique et Système); Djamal Merad (Laboratoire d'Informatique et Système)*
13	**GAN-Uplift: 2D to 3D Uplift with Generative Adversarial Networks** *Christopher M Bunn (University of Wollongong)**
14	**RPPG Detection in Children with Autism Spectrum Disorder during Robot-child Interaction Studies** *Şeyma TAKIR (Istanbul Technical University)*; Hatice Kose (Istanbul Technical*

	University); Buket Coşkun (Yeditepe University); Duygun Erol Barkana (Yeditepe University)
15	**Quality Classification and Segmentation of Sugarcane Billets Using Machine Vision** *Andrew Busch (Griffith University)*; Zachary Dawson (Griffith University); Joel Dedini (Griffith University); Jordan P Scott (Griffith University)*
17:30-17:45	**Poster Session – 2 Q&A**
17:45-18:45	**APRS AGM**

Main Conference Day 2 – 1 December

Rydges / Online

8:30-9:00	**Registration**
9:00-10:00	**Keynote 3** Speaker: *Prof. Anton van den Hengel, Adelaide*
10:00-10:30	Morning Tea
10:30-11:15	**Oral Session 3 – Remote Sensing (15 minutes each)**
10:30-10:45	**UCL: Unsupervised Curriculum Learning for Utility Pole Detection from Aerial Imagery** *Nosheen Abid (Lulea University of Technology)*; György Kovács (Luleå University of Technology); Jacob Wedin (Lulea University of Technology); Nuria Paszkowsky (RISE); Faisal Shafait (National University of Sciences and Technology (NUST)); Marcus Liwicki (Luleå University of Technology)*
10:45-11:00	**Swin-ResUNet: A Swin-Topology Module for Road Extraction from Remote Sensing Images** *YingShan Jing (Beijing University Of Technology); Shanshan Tu (Beijing University of Technology); Zhaoying Liu (Beijing University of Technology)*; Yuewu Hou (Beijing University of Technology); Changming Sun (CSIRO data 61)*

11:00-11:15	**Adversarial Attacks against a Satellite-borne Multispectral Cloud Detector** *Andrew P Du (The University of Adelaide); Yee Wei Law (University of South Australia)*; Michele Sasdelli (The University of Adelaide); Bo Chen (The University of Adelaide); Ken D Clarke (The University of Adelaide); Michael S Brown (York University); Tat-Jun Chin (The University of Adelaide)*
12:00-13:00	Lunch
13:00-14:00 13:00-13:20 13:20-13:40 13:40-14:00	**Invited Talk: Early Career Award (20 minutes each)** **Ultra-Fine-Grained Visual Categorization** Speaker: *Dr. Xiaohan Yu, Griffith University* **Towards Efficient Knowledge Transfer from Vision Foundation Models** Speaker: *Dr. Yifan Liu*, *the University of Adelaide* **Show, Attend and Detect: predicting cardiovascular diseases through fine-grained assessment of abdominal aortic calcification on Lumbar Spine Images** Speaker: Dr. Zulqarnain Gilani, the University of Western Australia
14:00-14:45	**Oral Session 4 – Human behaviour analysis (15 minutes each)**
14:00-14:15	**A Multi-granularity Feature Fusion Model for Pedestrian Attribute Recognition** *Jingjing Xie (University of Electronic Science and Technology of China)*; Linfeng Xu (University of Electronic Science and Technology of China); King Ngi Ngan (University of Electronic Science and Technology of China); Yue Liang (University of Electronic Science and Technology of China); Lanxiao Wang (University of Electronic Science and Technology of China); Daiyao Liu (University of Electronic Science and Technology of China)*
14:15-14:30	**Salient Face Prediction without Bells and Whistles** *Shreyank Jyoti (IIIT Hyderabad)*; ROHIT GIRMAJI (IIIT HYDERABAD); Ritvik Agrawal (IIIT, Hyderabad); Sarath Sivaprasad (International Institute of Information Technology Hyderabad); Vineet Gandhi (IIIT Hyderabad)*
14:30-14:45	**Online and Real-time Network for Video Pedestrian Intent Prediction** *Zheng Dong (Beihang University); Xue Li (Yihang Intellitech Co., Ltd.); Shengyin Fan (Yihang Intellitech Co., Ltd.); Yuhang Chen (Yihang Intellitech Co., Ltd.); Wei Li (Beihang University)**
15:00-15:30	Afternoon Tea
15:30-16:45	**Oral Session 5 – Machine learning (15 minutes each)**

15:30-15:45	**Regularizing Neural Network Training via Identity-wise Discriminative Feature Suppression** *Avraham N Chapman (The University of Adelaide)*; Lingqiao Liu (University of Adelaide)*
15:45-16:00	**Feature Similarity and its Correlation with Accuracy in Knowledge Distillation** *Aninda Saha (The University of Queensland)*; Alina N Bialkowski (The University of Queensland); Sara Khalifa (CSIRO)*
16:00-16:15	**Spatial Transformer Networks for Curriculum Learning** *Jean-Francois Nies (DFKI); Fatemeh Azimi (TU Kaiserslautern)*; Sebastian Palacio (DFKI); Federico Raue (DFKI); Jörn Hees (DFKI); Andreas Dengel (DFKI GmbH)*
16:15-16:30	**Deepfake Detection with Spatio-Temporal Consistency and Attention** *Yunzhuo Chen (The University of Western Australia)*; Naveed Akhtar (The University of Western Australia); Nur Al Hasan Haldar (The University of Western Australia); Ajmal Mian (University of Western Australia)*
16:30-16:45	**Unsupervised Deep Learning for Online Foreground Segmentation Exploiting Low-Rank and Sparse Priors** *Keita Takeda (Nagasaki University)*; Kohei Fujiwara (Nagasaki University); Tomoya Sakai (Nagasaki University)*
16:45-17:30	**Poster Session 3 – 3-Minute Spotlight**
1	**Underwater Object Detection Enhancement via Channel Stabilization** *Muhammad Ali (MBZUAI)*; Salman Khan (MBZUAI)*
2	**Hidden and Face-like Object Detection using Deep Learning Techniques – An Empirical Study** *Anirudh A (BITS Pilani, Hyderabad Campus); Subrata Chakraborty (University of New England)**
3	**Multi-Object Tracking with Multiple Cues and Switcher-Aware Classification** *Weitao Feng (University of Sydney)*; Baopu Li (Baidu); Wanli Ouyang (The University of Sydney)*
4	**D2E2-Net: Double Deep Edge Enhancement for Weakly-Supervised Cell Nuclei Segmentation with Incomplete Point Annotations** *Kunzi Xie (University of New South Wales)*; Haonan Zhong (University of New South Wales); Jiamin Chang (UNSW); Maurice Pagnucco (UNSW); Yang Song (University of New South Wales)*

5	**Effective Utilisation of Multiple Open-Source Datasets to Improve Generalisation Performance of Point Cloud Segmentation Models** *Matthew R Howe (The University of Adelaide)*; Boris Repasky (Lockheed Martin); Timothy Payne (Lockheed Martin)*
6	**Optimized Hybrid Focal Margin Loss for Crack Segmentation** *Jiajie Chen (MegaRobo)**
7	**Prostate Cancer Diagnosis from Structured Clinical Biomarkers with Deep Learning** *Moumen Elmelegy (Assiut University)*; Ahmed Mamdouh (Assiut University); Samia A Ali (Assiut University); Ayman El-Baz (University of Louisville)*
8	**SimplestNet-Drone: An efficient and Accurate Object Detection Algorithm for Drone Aerial Image Analytics** *Fazal Ghaffar (Deakin University)*; Seyed Mohammad Jalali (Deakin University); Chee Peng Lim (Deakin University); Burhan Khan (Deakin University); Saeid Nahavandi (Institute for Intelligent Systems Research and Innovation (IISRI)/Deakin University)*
9	**A Robust Approach for Small-Scale Object Detection from Aerial-View** *Zubair Saeed (UET Taxila); Muhammad Naeem Mumtaz Awan (University of Engineering and Technology Taxila, Pakistan); Mohammad Haroon Yousaf (UET Taxila, Pakistan)**
10	**Explainable Deep Learning for Medical Imaging Models through Class Specific Semantic Dictionaries** *Harrison J Layton (University of Queensland)*; Sally Shrapnel (University of Queensland); Alina N Bialkowski (The University of Queensland)*
11	**Dynamic Point Cloud Compression using Slicing focused on Self-occluded Points** *Faranak Tohidi (Charles Sturt University)*; Manoranjan Paul (Charles Sturt University, Australia); Anwaar Ulhaq (Charles Sturt University)*
12	**Dual-stream Convolutional Neural Networks for Koala Detection and Tracking** *Wangzhi Xing (Griffith University)*; Jun Zhou (Griffith University); Wee Lum Tan (Griffith University); Fereshteh Nayyeri (Griffith University); Douglas Kerlin (Griffith University); Guy Castley (Griffith University)*

13	**3D LiDAR Transformer for City-scale Vegetation Segmentation and Biomass Estimation** *Asim Khan (Victoria University)*; Warda Asim (Victoria University); Muhammad Ibrahim (University of Western Australia); Anwaar Ulhaq (Charles Sturt University)*
14	**Dual Image QR Codes: The Best of Both Worlds** *Chakrit Kammason (Khon Kaen University); Yupaporn Wanna (Khon Kaen University); Kannika Wiratchawa (Khon Kaen University); Thanapong Intharah (Khon Kaen University)**
17:30-17:45	**Poster Session – 2 Q&A**
18:30-21:30	**Banquet (Awards, Acknowledgment etc.)**

Main Conference Day 3 – 1 December

Rydges / Online

8:30-9:00	**Registration**
9:00-10:00	**Keynote 4** Speaker: *Prof. Hongdong Li, ANU*
10:00-10:30	Morning Tea
10:30-12:00	**Oral Session 6 – Computer Vision 2 (15 minutes each)**
10:30-10:45	**DALLE-URBAN: Capturing the urban design expertise of large text to image transformers** *Sachith H Seneviratne (University of Melbourne)*; Damith A Senanayake (University of Melbourne); Sanka Rasnayaka (National University of Singapore); Rajith Vidanaarachchi (The University of Melbourne); Jason H Thompson (University of Melbourne)*
10:45-11:00	**Co-Graph Convolution for Instance Segmentation** *Xiaoliang Zhang (University of Electronic Science and Technology of China)*; Haoyang Cheng (University of Electronic Science and Technology of China)*

11:00-11:15	**SDBNet: Lightweight Real-time Semantic Segmentation Using Short-term Dense Bottleneck** *Tanmay Singha (Curtin University)*; Duc-Son Pham (Curtin University); Aneesh Krishna (Curtin University)*
11:15-11:30	**Object Regression: Multi-Modal Data Enhanced Object Detection for Leasing Vehicle Return Assessment** *Mofassir ul Islam Arif (University of Hildesheim)*; Felix Wieland (Volkswagen Financial Services AG); Chiara Bianchin (Volkswagen Financial Services AG); Andre Hintsches (Volkswagen Financial Services AG); Katrin Lange (Volkswagen Financial Services AG); Lars Schmidt-Thieme (University of Hildesheim)*
11:30-11:45	**Analysis of the Over-exposure Problem for Robust Scene Parsing** *Renhao Huang (University of New South Wales)*; Maurice Pagnucco (UNSW); Yang Song (University of New South Wales)*
11:45-12:00	**KENGIC: KEyword-driven and N-Gram Graph based Image Captioning** *Brandon Birmingham (University of Malta)*; Adrian Muscat (University of Malta)*
12:00-13:00	Lunch
13:30-15:00	**Oral Session 7 – E-Health and Medical Image Analysis (15 minutes each)**
13:30-13:45	**TW-BAG: Tensor-wise Brain-aware Gate Network for Inpainting Disrupted Diffusion Tensor Imaging** *Zihao Tang (University of Sydney)*; Xinyi Wang (University of Sydney); Lihaowen Zhu (University of Sydney); Mariano Cabezas (The University of Sydney); Dongnan Liu (University of Sydney); Michael Barnett (Sydney Neuroimaging Analysis Centre); Weidong Cai (University of Sydney); Chenyu Wang (University of Sydney, Sydney Neuroimaging Analysis Centre)*
13:45-14:00	**FootSeg: Automatic Anatomical Segmentation of Foot Bones from Weight-Bearing Cone Beam CT Scans** *XIAOXU LI (University of Technology Sydney); Yu Peng (StraxCorp); Min Xu (Univeristy of Technology Sydney)**
14:00-14:15	**Semi-supervised learning with cross-localisation in shared GAN latent space for enhanced OCT data augmentation** *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)
14:15-14:30	**Identification of Suspicious Naevi in Dermoscopy Images by Learning Their Appearance** *Fatima Al Zegair (university of Queensland)*; Brigid Betz-Stablein (The University of Queensland Diamantina Institute); Zongyuan Ge (Monash); Chantal Rutjes (The University of Queensland Diamantina Institute); Peter Soyer (); Shekhar S Chandra (University of Queensland)*
14:30-14:45	**A deep learning multi-capture segmentation modality for retinal OCT imaging***Ignacio A Viedma Escalona (QUT)*; David Alonso-Caneiro (Queensland* *University of Technology); Scott Read (Queensland University of Technology); Michael Collins (Queensland University of Technology); Hosein HoseiniYazdi (Queensland University of* *Technology)*
14:45-15:00	**A Three-Stage Self Supervised Deep Learning Network for Automatic Calcium Scoring of Cardiac Computed Tomography Images** *Chuhan Wang (The University of Sydney)*; Tian Xia (The University of Sydney); Jean Yee Hwa Yang (The University of Sydney); Jinman Kim (University of Sydney)*
15:05-15:30	Afternoon Tea
15:30-17:15	**Oral Session 8 - Applications (15 minutes each))**
15:30-15:45	**SC-CrackSeg: A Real-time Shared Feature Pyramid Network for Crack Detection and Segmentation** *Tanmay Singha (Curtin University)*; Moritz Bergemann (Curtin University); Duc-Son Pham (Curtin University); Aneesh Krishna (Curtin University)*
15:45-16:00	**Can Synthetic Data Improve Multi-Class Counting of Surgical Instruments?** *James R Ireland (University of Canberra)*; Ibrahim Radwan (University of Canberra); Damith Herath (University of Canberra, Australia); Roland Goecke (University of Canberra)*
16:00-16:15	**A Hybrid Vision Transformer Approach for Mathematical Expression Recognition** *Duy Anh Lê (VNU-HCM University of Technology); Huu Thang Nguyen (Viettel Cyberspace Center, Viettel Group); Nam Quan Nguyen (Viettel Cyberspace Center, Viettel Group); Van Linh Pham (Viettel Cyberspace Center, Viettel Group); Vinh Loi Ly*

	*(Viettel Cyberspace Center, Viettel Group); Tuan Anh Tran (Ho Chi Minh University of Technology)**
16:15-16:30	**ComicLib: A New Large-Scale Comic Dataset for Sketch Understanding** *Xin Wei (Nanjing University of Posts and Telecommunications); Haifeng Zhao (Jinling Institute of Technology)*; Ziyu Gao (Nanjing Normal University); Yan Zhang (Jinling Institute of Technology); Jun Zhou (Griffith University); Zhixiang Chen (Nanjing University of Posts and Telecommunications); Qidi Lu (Nanjing Normal University)*
16:30-16:45	**End-to-End Traffic Sign Damage Assessment** *Kristian D Radoš (Curtin University)*; Jack Downes (Curtin University); Duc-Son Pham (Curtin University); Aneesh Krishna (Curtin University)*
16:45-17:00	**Disentangling Convolutional Neural Network towards an explainable Vehicle Classifier** *Andreas Caduff (Lucerne University of Applied Sciences and Arts)*; Klaus Zahn (Lucerne University of Applied Sciences and Arts); Jonas Hofstetter (Lucerne University of Applied Sciences and Arts); Martin Rechsteiner (Lucerne University of Applied Sciences and Arts); Patrick Flaig (SICK AG)*
17:00-17:15	**Detecting Microatolls from Drone Images** *Zhexuan Zhou (University of Wollongong); Lei Wang ("University of Wollongong, Australia")*; Sarah Hamylton (University of Wollongong)*
17:15-17:30	**Conference Closing**