

Conference Program

Monday 3rd December 2018

6.00pm – 8.00pm	Welcome Reception	Summer Garden, Perth Convention & Exhibition Centre
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Tuesday 4th December 2018

8:45am – 9:00am	Welcome	Prof Ian Reid, The University of Adelaide	Riverside Theatre
9:00am – 10:00am	Keynote Talk 1	Professor Richard Hartley, Australian National University	Riverside Theatre

10:00am – 10:30am	Morning Tea	Riverside Theatre Foyer
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10:30am – 12:00am	Oral Session O1: Learning	Riverside Theatre
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Time	Oral Number	Title	Authors
10:30am – 10:42am	O1-1: 951	Dual Generator Generative Adversarial Networks for Multi-Domain Image-to-Image Translation	Hao Tang (University of Trento)*; Dan Xu (University of Oxford); Wei Wang (EPFL); Yan Yan (Texas State University); Nicu Sebe (University of Trento)
10:42am – 10:54am	O1-2: 840	Pioneer Networks: Progressively Growing Generative Autoencoder	Ari Heljakka (Aalto University)*; Arno Solin (Aalto University); Juho Kannala (Aalto University, Finland)
10:54am – 11:06am	O1-3: 164	Editable Generative Adversarial Networks: Generating and Editing Faces Simultaneously	Kyungjune Baek (Yonsei University); Duhyeon Bang (Yonsei University); Hyunjung Shim (Yonsei University)*
11:06am – 11:18am	O1-4: 258	Cross Connected Network for Efficient Image Recognition	Lu Yang (Beijing University of Posts and Telecommunications)*; Qing Song (Beijing University of Posts and Telecommunications); Zuoxin Li (Beihang University); Yingqi Wu (Beijing University of Posts and Telecommunications); Xiaojie Li (Beihang University); Mengjie Hu (Beijing University of Posts and Telecommunications)
11:18am – 11:30am	O1-5: 67	Answer Distillation for Visual Question Answering	Zhiwei Fang (Chinese Academy of Sciences)*; Jing Liu (Chinese Academy of Sciences); Qu Tang (Southeast University-Monash University Joint Graduate School Suzhou); Yong Li (Business Growth BU, JD.com); Hanqing Lu (Chinese Academy of Sciences)
11:30am – 11:42am	O1-6: 616	Spiral-Net with F1-based Optimization For Image-Based Crack Detection	Takumi Kobayashi (National Institute of Advanced Industrial Science and Technology)*

11:42am—11:54am		O1-7: 453	Flex-Convolution (Deep Learning Beyond Grid-Worlds)	Fabian Groh (University Tübingen)*; Patrick Wieschollek (University of Tübingen); Hendrik P. A. Lensch (University of Tübingen)
12:00pm—1:30pm		Lunch		Riverside Theatre Foyer
1:30pm—4:00pm		Poster Session P1		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-1	17	Extreme Reverse Projection Learning for Zero-Shot Recognition	Jiechao Guan (Renmin University of China); An Zhao (Renmin University of China); Zhiwu Lu (Renmin University of China)*	
P1-2	78	A Defect Inspection Method for Machine Vision using Defect Probability Image with Deep Convolutional Neural Network	Chanhee Jang (Advanced Technology Inc.); Sangyun Yun (Advanced Technology Inc.); Hyejin Hwang (Advanced Technology Inc); Hyunmin Shin (Advanced Technology Inc); SeongSoo Kim (Advanced Technology Inc); Yangsub Park (Advanced Technology Inc)*	
P1-3	121	3D Pick & Mix: Object Part Blending in Joint Shape and Image Manifolds	Adrian Penate-Sanchez (University College London)*; Lourdes Agapito (University College London)	
P1-4	138	Minutiae-based Gender Estimation for Full and Partial Fingerprints of Arbitrary Size and Shape	Philipp Terhórst (Fraunhofer Institute for Computer Graphics Research IGD)*; Naser Damer (Fraunhofer IGD); Andreas Braun (Fraunhofer IGD); Arjan Kuijper (Fraunhofer Institute for Computer Graphics Research IGD and TU Darmstadt)	
P1-5	215	Simultaneous Face Detection and Head Pose Estimation: A Fast and Unified Framework	Tingfeng Li (Shanghai Jiao Tong University); Xu Zhao (Shanghai Jiao Tong University)*	
P1-6	158	Progressive Feature Fusion Network for Realistic Image Dehazing	Kangfu Mei (Jiangxi Normal University); Aiwen Jiang (Jiangxi Normal University)*; Juncheng Li (East China Normal University); Mingwen Wang (Jiangxi Normal University)	
P1-7	29	Semi-Supervised Learning for Face Sketch Synthesis in the Wild	Chaofeng Chen (The University of Hong Kong)*; Wei Liu (The University of Hong Kong); Xiao Tan (Baidu Inc.); Kwan-Yee K. Wong (The University of Hong Kong)	
P1-8	285	Evolution Constrained Adversarial Learning for Video Style Transfer	Wenbo Li (*University at Albany, SUNY)*; Longyin Wen (JD Finance); Xiao Bian (GE Global Research); Siwei Lyu (University at Albany)	
P1-9	190	An unsupervised deep learning framework via integrated optimization of representation learning and GMM-based modeling	Jinghua Wang (Shenzhen University); Jianmin Jiang (Shenzhen University)*	

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1:30pm—4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-10	43	Recovering affine features from orientation- and scale-invariant ones	Dániel Baráth (MTA SZTAKI, CMP Prague)*	
P1-11	373	Totally Looks Like - How Humans Compare, Compared to Machines	Amir Rosenfeld (York University)*; Markus Solbach (York University); John Tzotsos (York University)	
P1-12	151	Generation of Virtual Dual Energy Images from Standard Single-Shot Radiographs using Multi-scale and Conditional Adversarial Network	Bo Zhou (Carnegie Mellon University)*; Xunyu Lin (Carnegie Mellon University); Brendan Eck (Case Western Reserve University); David Wilson (Case Western Reserve University)	
P1-13	431	GD-GAN: Generative Adversarial Networks for Trajectory Prediction and Group Detection in Crowds	Tharindu Fernando (Queensland University of Technology)*; SIMON DENMAN (Queensland University of Technology, Australia); Sridha Sridharan (QUT); Clinton Fookes (Queensland University of Technology)	
P1-14	447	Multi-Level Sequence GAN for Group Activity Recognition	Harshala Gammulle (Queensland University of Technology)*; Simon Denman (Queensland University of Technology, Australia); Sridha Sridharan (QUT); Clinton Fookes (Queensland University of Technology)	
P1-15	441	Spatio-Temporal Fusion Networks for Action Recognition	Sangwoo Cho (University of Central Florida)*; Hassan Foroosh (University of Central Florida)	
P1-16	502	Image2Mesh: A Learning Framework for Single Image 3D Reconstruction	Jhony Kaesemodel Pontes (Queensland University of Technology)*; Anders Eriksson (QUT); Clinton Fookes (Queensland University of Technology); Simon Lucey (CMU)	
P1-17	290	Face Completion with Semantic Knowledge and Collaborative Adversarial Learning	Haofu Liao (University of Rochester)*; Yefeng Zheng (Siemens Healthineers); Gareth Funka-Lea (Siemens Healthineers); Jiebo Luo (U. Rochester); Shaohua Zhou (Siemens Healthineers)	
P1-18	525	Water-Filling: An Efficient Algorithm for Digitized Document Shadow Removal	Seungjun Jung (KohYoung Technology); Muhammad Abul Hasan (University of South Australia); Changick Kim (KAIST)*	
P1-19	367	Matchable Image Retrieval by Learning from Surface Reconstruction	Tianwei Shen (HKUST)*; Zixin Luo (HKUST); Lei Zhou (HKUST); Runze Zhang (HKUST); Siyu Zhu (HKUST); Tian Fang (Alitzure); Long Quan (Hong Kong University of Science and Technology)	

1:30pm—4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-20	458	Thinking Outside the Box: Generation of Unconstrained 3D Room Layouts	Henry Howard-Jenkins (University of Oxford)*; Shuda Li (University of Oxford); Victor Prisacariu (University of Oxford)	
P1-21	353	VIENA2: A Driving Anticipation Dataset	Mohammad Sadeq Aliakbarian (Australian National University)*; Fatemeh Sadat Saleh (Australian National University (ANU)); Mathieu Salzmann (EPFL); Basura Fernando (Australian National University); Lars Petersson (Data61/CSIRO); Lars Andersson (CSIRO)	
P1-23	157	Multilevel Collaborative Attention Network for Person Search	Wenbo Li (Shanghai Jiao Tong University)*; Ze Chen (Shanghai Jiao Tong University); Zhenyong Fu (Nanjing University of Science and Technology); Hongtao Lu (Shanghai Jiao Tong University)	
P1-24	479	Enhancing Perceptual Attributes with Bayesian Style Generation	Aliaksandr Siarohin (University of Trento)*; Gloria Zen (University of Trento); Nicu Sebe (University of Trento); Elisa Ricci (FBK - Technologies of Vision)	
P1-25	374	Deep Convolutional Compressed Sensing for LiDAR Depth Completion	Nathaniel E Chodosh (CMU)*; Chaoyang Wang (Carnegie Mellon University); Simon Lucey (CMU)	
P1-26	497	Learning for Video Super-Resolution through HR Optical Flow Estimation	Longguang Wang (National University of Defense Technology); Yulan Guo (National University of Defense Technology)*; Zaiping Lin (National University of Defense Technology); Xipu Deng (National University of Defense Technology); Wei An (National University of Defense Technology)	
P1-27	235	Deep Multiple Instance Learning for Zero-shot Image Tagging	Shafin Rahman (Australian National University)*; Salman Khan (Australian National University (ANU))	
P1-28	238	Zero-Shot Object Detection: Learning to Simultaneously Recognize and Localize Novel Concepts	Shafin Rahman (Australian National University)*; Salman Khan (Australian National University (ANU)); Fatih Porikli (ANU)	
P1-29	683	Vision-based Freezing of Gait Detection with Anatomic Patch based Representation	Kun Hu (The University of Sydney)*; Zhiyong Wang (Sydney University); Kaylena Martens (The University of Sydney); Simon Lewis (The University of Sydney)	

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1:30pm—4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-30	538	Fast Video Shot Transition Localization with Deep Structured Models	Shitao Tang (SenseTime Research)*; Litong Feng (Sensetime Research); Zhanghui Kuang (Sensetime Ltd.); Yimin Chen (sensetime); Wei Zhang (SenseTime Research)	
P1-31	475	Latent Space Traversal Network	Yan Zuo (Monash University)*; Gil Avraham (Monash University); Tom Drummond (Monash University)	
P1-32	423	Parallel Convolutional Networks for Image Recognition via a Discriminator	Shiqi Yang (Huazhong University of Science and Technology)*; Gang Peng (Huazhong University of Science and Technology)	
P1-33	402	ENG: End-to-end Neural Geometry for Robust Depth and Pose Estimation using CNNs	Thanuja Dharmsiri (Monash University)*; Andrew Spek (Monash University); Tom Drummond (Monash University)	
P1-34	472	Multi-scale Adaptive Structure Network for Human Pose Estimation from Color Images	Wenlin Zhuang (Southeast University); Cong Peng (Nanjing University of Aeronautics and Astronautics); Siyu Xia (Southeast University, China); Yangang Wang (Southeast University)*	
P1-35	726	Full Explicit Consistency Constraints in Uncalibrated Multiple Homography Estimation	Zygmunt Szpak (The University of Adelaide)*; Wojciech Chojnacki (The University of Adelaide)	
P1-36	720	A New Method for Computing the Principal Point of an Optical Sensor by means of Sphere Images	Rudi Penne (University of Antwerp)*; Bart Ribbens (University of Antwerp)	
P1-37	605	NightOwls: A Pedestrians at Night Dataset	Lukáš Neumann (University of Oxford)*; Michelle Karg (ADC Automotive Distance Control Systems GmbH, Continental); Shanshan Zhang (Max Planck Institute for Informatics); Christian Scharfenberger (ADC Automotive Distance Control Systems GmbH, Continental); Eric Piegert (ADC Automotive Distance Control Systems GmbH, Continental); Sarah Mistr (ADC Automotive Distance Control Systems GmbH, Continental); Olga Prokofyeva (ADC Automotive Distance Control Systems GmbH, Continental); Robert Thiel (ADC Automotive Distance Control Systems GmbH, Continental); Andrea Vedaldi (Oxford University); Andrew Zisserman (University of Oxford); Bernt Schiele (MPI)	

1:30pm—4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-38	749	Multi-view consensus CNN for 3D facial landmark placement	Rasmus R. Paulsen (DTU Compute)*; Kristine Aavild Juhl (DTU Compute); Thilde Marie Haspang (DTU Compute); Thomas Hansen (RegionH); Gudmundur Einarsson (Technical University of Denmark); Melanie Ganz (Neurobiology Research Unit, University of Copenhagen)	
P1-39	798	Embedded polarizing filters to separate diffuse and specular reflection	Laurent Jospin (Ecole Polytechnique Fédérale de Lausanne); Gilles Baechler (Ecole Polytechnique Fédérale de Lausanne)*; Adam Scholefield (Ecole Polytechnique Fédérale de Lausanne)	
P1-40	405	SCPNet: Spatial-Channel Parallelism Network for Joint Holistic and Partial Person Re-Identification	Xing Fan (Zhejiang University)*; Hao Luo (Zhejiang University); Xuan Zhang (Megvii.com); Lingxiao He (Inst. of Automation, Chinese Academy of Sciences); Wei Jiang (Department of Control Science and Engineering, Zhejiang University); Chi Zhang (Megvii Inc.)	
P1-41	178	GhostVLAD for set-based face recognition	Yujie Zhong (University of Oxford)*; Relja Arandjelović (DeepMind); Andrew Zisserman (University of Oxford)	
P1-42	751	Learning image-to-image translation using paired and unpaired training samples	Soumya Tripathy (Tampere University of Technology)*; Juho Kannala (Aalto University, Finland); Esa Rahtu (Tampere University of Technology)	
P1-43	721	BitNet: Learning-Based Bit-Depth Expansion	Junyoung Byun (KAIST); Kyujin Shim (KAIST); Changick Kim (KAIST)*	
P1-44	362	Attributes Consistent Faces Generation under Arbitrary Poses	Fengyi Song (Nanjing Normal University)*	
P1-45	853	Cooperative Adversarial Network for Accurate Super Resolution	Zhong-Qiu Zhao (HFUT); Jian Hu (HFUT)*; Weidong Tian (HFUT); Ning Ling (HFUT)	
P1-46	452	Cross-spectral Image Patch Matching by Learning Features of the Spatially Connected Patches in a Shared Space	dou quan (School of Artificial Intelligence, Xidian University, China); shuai fang (School of Artificial Intelligence, Xidian University, China); Xuefeng Liang (Xidian University); Shuang Wang (Xidian University)*; Licheng Jiao (Xidian University)	
P1-47	889	Semantic Segmentation Refinement by Monte Carlo Region Growing of High Confidence Detections	Phillipe Ambrozio Dias (Marquette University)*; Henry Medeiros (Marquette University)	

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1:30pm—4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-48	710	A Deep Blind Image Quality Assessment With Visual Importance Based Patch Score	zhengyi lv (State Key Laboratory of Virtual Reality Technology and Systems, Beihang University)*; Xiaohui Liang (State Key Laboratory of Virtual Reality Technology and Systems, Beihang University); Kai Wang (State Key Laboratory of Virtual Reality Technology and Systems, Beihang University); Xiaochuan Wang (State Key Laboratory of Virtual Reality Technology and Systems, Beihang University)	
P1-49	602	Robust Video Background Identification by Dominant Rigid Motion Estimation	Kaimo Lin (); Nianjuan Jiang (ADSC -- Singapore); Loong Fah Cheong (NUS); Jiangbo Lu (Advanced Digital Sciences Center); Xun Xu (NUS)*	
P1-50	419	SMC: Single-stage Multi-location Convolutional Network for Temporal Action Detection	Zhikang Liu (University of Science and Technology of China & Megvii); Zilei Wang (University of Science and Technology of China)*; Yan Zhao (University of Science and Technology of China); Ye Tian (N.A.)	
P1-51	163	SAFE: Scale Aware Feature Encoder for Scene Text Recognition	Wei Liu (The University of Hong Kong)*; Chaofeng Chen (The University of Hong Kong); Kwan-Yee K. Wong (The University of Hong Kong)	
P1-52	650	Neural Abstract Style Transfer for Chinese Traditional Painting	Bo Li (Alibaba)*; Caiming Xiong (Salesforce Research); Tianfu Wu (NC State University); Yu Zhou (Beijing University of Posts and Telecommunications); lun zhang (alibaba); Rufeng Chu (Alibaba Group)	
P1-53	248	Detector-in-Detector: Multi-Level Analysis for Human-Parts	Xiaojie Li (Beihang University); Lu Yang (Beijing University of Posts and Telecommunications); Qing Song (Beijing University of Posts and Telecommunications); Fuqiang Zhou (Beihang University)*; Xuoxin Li (Beihang University)	
P1-54	547	Aligning Salient Objects to Queries: A Multi-modal and Multi-object Image Retrieval Framework	Sounak Dey (Computer Vision Center); Anjan Dutta (Computer Vision Center)*; Suman Ghosh (CVC); Ernest Valveny (Universitat Autònoma de Barcelona); Josep Lladós (* Computer Vision Center, Barcelona*)	
P1-55	943	Fast Light Field Disparity Estimation via a Parallel Filtered Cost Volume Approach	Adam Stacey (The University of Queensland)*; Surya Singh (The University of Queensland)	
P1-56	955	Perceptual Conditional Generative Adversarial Networks for End-to-End Image Colourization	Shirsendu S Halder (INRIA, Paris); Kanjar De (IIT Roorkee)*; Partha Pratim Roy (IIT Roorkee)	

1:30pm—4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-57	349	Self-Referenced Deep Learning	Xu Lan (Queen Mary University of London)*; Xiatian Zhu (Queen Mary University, London, UK); Shaogang Gong (Queen Mary University of London)	
P1-58	506	Hybrid Diffusion: Spectral-Temporal Graph Filtering for Manifold Ranking	Ahmet Iscen (Czech Technical University)*; Yannis Avrithis (Inria); Giorgos Toulas (Vision Recognition Group, Czech Technical University in Prague); Teddy Furon (Inria); Ondrej Chum (Vision Recognition Group, Czech Technical University in Prague)	
P1-59	959	Learning Free-Form Deformations for 3D Object Reconstruction	Dominic Jack (Queensland University of Technology)*; Jhony Kaesemodel Pontes (QUT); Anders Eriksson (QUT); Frederic Maire (Queensland University of Technology); SAREH SHIRAZI (Queensland University of Technology, Australia)	
P1-60	958	CalliGAN: Unpaired Multi-Chirography Chinese Calligraphy Image Translation	Yiming Gao (Zhejiang University); Jiangqin Wu (Zhejiang University)*	
P1-61	917	End-to-End Detection and Re-identification Integrated Net for Person Search	Zhenwei He (Chongqing University); Lei Zhang (Chongqing University)*	
P1-62	689	A CNN-based Depth Estimation Approach with Multi-scale Sub-pixel Convolutions and A Smoothness Constraint	Shiyu Zhao (Tongji University); Lin Zhang (Tongji University, China)*; Ying Shen (Tongji University)	
P1-63	376	Ranking Loss: A Novel Metric Learning Method for Person Re-identification	cao min (The Chinese academy of science); chen chen (The Chinese academy of science)*; hu xiuyan (The Chinese academy of science); peng silong (The Chinese academy of science)	
P1-64	975	Unsupervised Transformation Network Based on GANs for Target-domain Oriented Image Translation	Hongwei Ge (Dalian University of Technology); Yao Yao (Dalian University of Technology)*; Zheng Chen (Washington University in St. Louis); Chao Yu (Dalian University of Technology); Liang Sun (Dalian University of Technology)	
P1-65	42	A Trainable Multiplication Layer for Auto-correlation and Co-occurrence Extraction	Hideaki Hayashi (Kyushu University)*; Seiichi Uchida (Kyushu University)	

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1:30pm–4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-66	590	Cross-View Action Recognition Using View-Invariant Pose Feature Learned from Synthetic Data with Domain Adaptation	Yu-Huan Yang (National Taiwan University); yu-hung Liu (National Taiwan University); An-Sheng Liu (National Taiwan University); Tso-Hsin Yeh (National Taiwan University); Zi-Jun Li (National Taiwan University); Li-Chen Fu (National Taiwan University)*	
P1-67	920	ImaGAN: Unsupervised Training of Conditional Joint Cycle GAN for Transferring Style with Core Structures in Content Preserved	Kang Min Bae (KAIST)*; Minuk Ma (KAIST); Hyunjun Jang (KAIST); Minjeong Ju (KAIST); Hyoungwoo Park (KAIST); Chang D. Yoo (KAIST)	
P1-68	644	Regularizing Like BN and Better	Alexander Shekhovtsov (Czech Technical University in Prague, Czech Republic)*; Boris Flach (Czech Technical University in Prague)	
P1-69	1004	Contextual Object Detection with a Few Relevant Neighbors	Ehud Barnea (Ben-Gurion University, Beer Sheva, Israel)*; Ohad Ben-Shahar (Ben Gurion University, Israel)	
P1-70	1010	Album to family tree: a graph based method for family relationship recognition	Chao Xia (Shanghai Jiao Tong University); Siyu Xia (Southeast University, China)*; Ming Shao (University of Massachusetts Dartmouth); YUN FU (Northeastern University)	
P1-71	797	Robust Multimodal Image Registration using Deep Recurrent Reinforcement Learning	Shanhui Sun (CuraCloud); Jing Hu (Chengdu University of Information Technology); Mingqing Yao (Chengdu University of Information Technology); Jinrong Hu (Chengdu University of Information Technology); Xiaodong Yang (Chengdu University of Information Technology); qisong (Curacloud); Xi Wu (Chengdu University of Information Technology)*	
P1-72	768	Image Super-Resolution Using Knowledge Distillation	Qinquan Gao (Fuzhou University); Yan Zhao (Fuzhou University); Gen Li (Imperial Vision Technology); Tong Tong (Imperial Vision Technology)*	
P1-73	611	Visual-Linguistic Methods for Receipt Image Understanding	Rinon Gal (WAY2VAT)*; Roy Shilkrot (Stony Brook University); Nimrod Morag (Way2VAT)	
P1-74	557	Cascaded Pyramid Mining Network for Weakly Supervised Temporal Action Localization	Haisheng Su (Shanghai Jiao Tong University); Xu Zhao (Shanghai Jiao Tong University)*; Tianwei Lin (Shanghai Jiao Tong University)	

1:30pm–4:00pm		Poster Session P1 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P1-75	428	Coarse-to-fine: A RNN-based hierarchical attention model for vehicle re-identification	Xiu-Shen Wei (Nanjing University)*; Chen-Lin Zhang (Nanjing University); Lingqiao Liu (University of Adelaide); Chunhua Shen (University of Adelaide); Jianxin Wu (Nanjing University)	
3:30pm–4:00pm		Afternoon Tea		Riverside Theatre Foyer
4:00pm–5:40pm		Oral Session O2: Object tracking and segmentation		
Time	Oral Number	Title	Authors	
4:00pm–4:12pm	O2-1: 75	FuCoLoT - A Fully-Correlational Long-Term Tracker	Alan Lukezic (University of Ljubljana)*; Luka Cehovin; Tomas Vojir (CMP CTU); Jiri Matas (CMP CTU FEE); Matej Kristan (University of Ljubljana)	
4:12pm–4:24pm	O2-2: 509	Customizing Multi-person Tracker	Liqian Ma (KU Leuven)*; Siyu Tang (MPI for Intelligent Systems); Michael J. Black (Max Planck Institute for Intelligent Systems); Luc Van Gool (KU Leuven & ETH Zurich)	
4:24pm–4:36pm	O2-3: 643	Long-Term Visual Object Tracking Benchmark	Abhinav Moudgil (IIIT Hyderabad)*; Vineet Gandhi (IIIT Hyderabad)	
4:36pm–4:48pm	O2-4: 834	Learning Rotation Adaptive Correlation Filters in Robust Visual Object Tracking	Litu Rout (Indian Institute of Space Science and Technology)*; Priya Mariam Raju (Indian Institute of Space Science and Technology); Deepak Mishra (IIIT); Gorthi Rama Krishna Sai Subrahmanyam (IIIT Tirupati)	
4:48pm–5:00pm	O2-5: 761	Let's take a Walk on Superpixels Graphs: Deformable Linear Objects Segmentation and Model Estimation	Daniele de Gregorio (University Of Bologna)*; Luigi Di Stefano (University of Bologna); Gianluca Palli (University Of Bologna)	
5:00pm–5:12pm	O2-6: 773	AttentionMask: Attentive, Efficient Object Proposal Generation Focusing on Small Objects	Christian Wilms (University of Hamburg)*; Simone Frintrop (University of Hamburg)	
5:12pm–5:24pm	O2-7: 270	Semantic bottleneck for computer vision tasks	Maxime Bucher; Stephane Herbin; Frederic Jurie	
5:24pm–5:36pm	O2-8: 411	Withdrawn		

Wednesday 5th December 2018

8:45am – 9:00am	Welcome <i>Riverside Theatre</i>		
9:00am – 10:00am	Keynote Talk 2 Dr. James Crawford, Orbital Insight		
10:00am – 10:30am	Morning Tea <i>Riverside Theatre Foyer</i>		
10:30am – 12:00am	Oral Session O3: Face, Gesture and Text <i>Riverside Theatre</i>		
Time	Oral Number	Title	Authors
10:30am – 10:42am	O3-1: 638	RankGAN: A Maximum Margin Ranking GAN for Generating Faces	Felix Juefei-Xu (Carnegie Mellon University); Rahul Dey (Michigan State University)*; Vishnu Boddeti (Michigan State University); Marios Savvides (Carnegie Mellon University)
10:42am – 10:54am	O3-2: 156	Zero-Shot Facial Expression Recognition with Multi-Label Label Propagation	Zijia Lu (Chinese Academy on Science)*; Jiabei Zeng (Institute of Computing Technology, CAS); Shiguang Shan (Chinese Academy on Science); Xilin Chen (Chinese Academy on Science)
10:54am – 11:06am	O3-3: 255	Believe It or Not, We Know What You Are Looking at !	Dongze Lian (ShanghaiTech University)*; Zehao Yu (Xiamen University); Shenghua Gao (ShanghaiTech University)
11:06am – 11:18am	O3-4: 253	COSONet: Compact Second-Order Network for Video Face Recognition	Yirong Mao (Chinese Academy of Science); Ruiping Wang (Chinese Academy on Science)*; Shiguang Shan (Chinese Academy on Science); Xilin Chen (Chinese Academy on Science)
11:18am – 11:30am	O3-5: 756	Enhancing Text Spotting with Visual Semantic Information	Ahmed A Sabir (Universitat Politècnica de Catalunya)*; Lluís Padró (Universitat Politècnica de Catalunya); Francesc Moreno (IRI)
11:30am – 11:42am	O3-6: 996	TextNet: Irregular Text Reading from Images with an End-to-End Trainable Network	Yipeng Sun (Baidu Inc.)*; Chengquan Zhang (Baidu Inc.); Zuming Huang (Baidu Inc.); Jiaming J.L. Liu (Baidu Inc.); Junyu Han (Baidu Inc.); Errui Ding (Baidu Inc.)
11:42am – 11:54am	O3-7: 887	Text2Shape: Generating Shapes from Natural Language by Learning Joint Embeddings	Kevin Chen (Stanford University)*; Christopher Choy (Stanford University); Manolis Savva (Princeton University); Angel X Chang (Eloquent Labs); Thomas Funkhouser (Princeton, USA); Silvio Savarese (Stanford University)
12:00pm – 1:30pm	Lunch <i>Riverside Theatre Foyer</i>		

1:30pm – 4:00pm		Poster Session P2 <i>Riverside Theatre Foyer</i>	
Poster Session & Board Number	Paper Number	Paper Title	Authors
P2-1	844	Understanding Individual Decisions of CNNs via Contrastive Backpropagation	Jindong Gu (Siemens AG and Ludwig Maximilian University of Munich)*; Volker Tresp (Siemens AG and Ludwig Maximilian University of Munich); Yinchong Yang (Siemens AG and Ludwig Maximilian University of Munich)
P2-2	280	Say Yes To The Dress: Shape and Style Transfer Using Conditional GANs	Michael A Hobley (University of Oxford)*; Victor Prisacariu (University of Oxford); Michael Hobley (University of Oxford)
P2-3	795	Towards Multi-class Object Detection in Unconstrained Remote Sensing Imagery	Seyed Majid Azimi (German Aerospace Center (DLR))*; Eleonora Vig (DLR); Reza Bahmanyar (German Aerospace Center (DLR)); Marco Körner (Technical University of Munich); Peter Reinartz (German Aerospace Center)
P2-4	722	Panorama from Representative Frames of Unconstrained Videos Using DiffeoMeshes	Geethu M Jacob (Indian Institute of Technology, Chennai)*; Sukhendu Das (Indian Institute of Technology, Madras)
P2-5	1039	Robust and Efficient Ellipse Fitting Using Tangent Chord Distance	Jiarong Ou (South China University of Technology); Jingang Yu (South China University of Technology)*; Changxin Gao (Huazhong University of Science and Technology); Xiao Lichao (SCUT); Liu Zhifeng (South China University of Technology)
P2-6	906	Knowledge Distillation with Unsupervised Feature Maps Learning	Wei-Chun Chen (National Tsing Hua University)*; Chia-Che Chang (National Tsing Hua University); Che-Rung Lee (National Tsing Hua University)
P2-7	1048	Bidirectional Conditional Generative Adversarial Networks	Ayush Jaiswal (University of Southern California)*; Wael Abd-Almageed (Information Sciences Institute); Rex Yue Wu (USC ISI); Prem Natarajan (USC ISI)
P2-8	119	Cross-Resolution Person Re-identification with Deep Antithetical Learning	Zijie Zhuang (Tsinghua University)*; Haizhou Ai (Tsinghua University); Long Chen (Tsinghua University); Chong Shang (Tsinghua University)
P2-9	621	A Temporally-Aware Interpolation Network for Video Frame Inpainting	Ximeng Sun (University of Michigan, Ann Arbor)*; Ryan Szteto (University of Michigan Ann Arbor); Jason J Corso (University of Michigan)
P2-10	990	Linear solution to the minimal absolute pose rolling shutter problem	Zuzana Kukelova; Cenek Albl; Tomas Pajdla; Akihiro Sugimoto
P2-11	672	Scale Estimation of Monocular SfM for a Multi-modal Stereo Camera	Shinya Sumikura (Nagoya University)*; Ken Sakurada (National Institute of Advanced Industrial Science and Technology); Nobuo Kawaguti (Nagoya university); Ryosuke Nakamura (National Institute of Advanced Industrial Science and Technology)

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1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P2-12	790	Geometry meets semantic for semi-supervised monocular depth estimation	Pierluigi Zama Ramirez (University of Bologna)*; Matteo Poggi (University of Bologna); Fabio Tosi (University of Bologna); Stefano Mattoccia (University of Bologna); Luigi Di Stefano (University of Bologna)	
P2-13	626	Deep Manifold Alignment for Mid-grain Sketch based Image Retrieval	Tu Bui (University of Surrey)*; Leonardo Ribeiro (Universidade de São Paulo); Moacir Ponti (Universidade de São Paulo); John Collomosse (Adobe Research)	
P2-14	640	Visual Graphs from Motion (VGfM): Scene understanding with object geometry reasoning	Alessio Del Bue (Istituto Italiano di Tecnologia (IIT))*; Stuart James (Istituto Italiano di Tecnologia (IIT)); Paul Gay (IIT)	
P2-15	632	Deep Semantic Matching with Foreground Detection and Cycle-Consistency	Yun-Chun Chen (Academia Sinica)*; Po-Hsiang Huang (National Taiwan University); Li-Yu Yu (NTU); Jia-Bin Huang (Virginia Tech); Ming-Hsuan Yang (University of California at Merced); Yen-Yu Lin (Academia Sinica)	
P2-16	511	Hidden Two-Stream Convolutional Networks for Action Recognition	Yi Zhu (UC Merced)*; Zhenzhong Lan (Carnegie Mellon University); Shawn Newsam (UC Merced); Alexander Hauptmann (Carnegie Mellon University)	
P2-17	1049	A Multi-purpose Convolutional Neural Network for Simultaneous Super-resolution and High Dynamic Range Image Reconstruction	Soo Ye Kim (KAIST); Munchurl Kim (KAIST-VICLab)*	
P2-18	1045	ITM-CNN: Learning the Inverse Tone Mapping from Low Dynamic Range Video to High Dynamic Range Displays using Convolutional Neural Networks	Soo Ye Kim (KAIST); Dae Eun Kim (KAIST); Munchurl Kim (KAIST-VICLab)*	
P2-19	116	Structure Aware SLAM using Quadrics and Planes	Mehdi Hosseinzadeh (The University of Adelaide)*; Yasir Latif (The University of Adelaide); Trung Pham (NVIDIA); Niko Suenderhauf (Queensland University of Technology); Ian Reid (*University of Adelaide, Australia*)	
P2-20	429	Maintaining Natural Image Statistics with the Contextual Loss	Roey Mechrez (Technion)*; Itamar Talmi (Technion); Firas Shama (Technion); Lili Zelnik-Manor (Technion)	

1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P2-21	1068	U-DADA: Unsupervised Deep Action Domain Adaptation	Arshad Jamal (IIT Kanpur)*; Vinay P Namboodiri (IIT Kanpur); Dipti Deodhare (CAIR, DRDO); K. S. Venkatesh (IIT Kanpur)	
P2-22	240	Artistic Object Recognition by Unsupervised Style Adaptation	Christopher L Thomas (University of Pittsburgh)*; Adriana Kovashka (University of Pittsburgh)	
P2-23	395	iPose: Instance-Aware 6D Pose Estimation of Partly Occluded Objects	Omid Hosseini Jafari (Uni Heidelberg)*; Siva Karthik Mustikovela (Uni Heidelberg); Karl Pertsch (University of Southern California); Eric Brachmann (TU Dresden); Carsten Rother (University of Heidelberg)	
P2-24	817	Multi-Attribute Probabilistic Linear Discriminant Analysis for 3D Facial Shapes	Stylianios Moschoglou (Imperial College London)*; Stylianios Ploumpis (Imperial College London); Mihalis A Nicolaou (Goldsmiths, University of London); Stefanos Zafeiriou (Imperial College London)	
P2-25	337	Combination of Two Fully Convolutional Neural Networks for Robust Binarization	Romain Karpinski (LORIA); Abdel BELAID (LORIA)*	
P2-26	272	Deep Depth From Focus	Caner Hazirbas (Technical University of Munich)*; Sebastian Soyler (TUM); Maximilian Christian Staab (TUM); Laura Leal-Taixé (TUM); Daniel Cremers (TUM)	
P2-27	1077	Random Temporal Skipping for Multirate Video Analysis	Yi Zhu (UC Merced)*; Shawn Newsam (UC Merced)	
P2-28	342	Tiny People Pose	Lukáš Neumann (University of Oxford)*; Andrea Vedaldi (Oxford University)	
P2-29	619	Pose estimation of a single circle using default intrinsic calibration	Damien Mariyanayagam (IRIT)*; Pierre Gurdjos (IRIT, ENSEIHT-INP, Toulouse); Sylvie Chambon (IRIT, ENSEIHT-INP, Toulouse); Florent Brunet (Ublearn); Vincent Charvillat (IRIT, ENSEIHT-INP, Toulouse)	
P2-30	1092	Deep Multi-Instance Volumetric Image Classification with Extreme Value Distributions	Alireza Bab-Hadiashar (RMIT University)*; Ruwan Tennakoon (RMIT)	
P2-31	394	Low-Resolution Face Recognition	Zhiyi Cheng (Queen Mary University of London)*; Xiatian Zhu (Queen Mary University of London); Shaogang Gong (Queen Mary University of London)	

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1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P2-32	283	GANomaly: Semi-Supervised Anomaly Detection via Adversarial Training	Samet Akcay (Durham University)*; Amir Atapour-Abarghouei (Durham University); Toby Breckon (Durham University)	
P2-33	802	Deep Object Co-Segmentation	Weihao Li (Visual Learning Lab, Heidelberg University)*; Omid Hosseini Jafari (Uni Heidelberg); Carsten Rother (University of Heidelberg)	
P2-34	477	From Same Photo: Cheating on Visual Kinship Challenges	Mitchell Dawson (University of Oxford)*; Andrew Zisserman (University of Oxford); Christoffer Nellaker (University of Oxford)	
P2-35		Class-Agnostic Counting	Erika Lu; Xie Weidi; Andrew Zisserman	
P2-36	182	A Computational Camera with Programmable Optics for Snapshot High-Resolution Multispectral Imaging	Jieen Chen (Universität Tübingen)*; Michael Hirsch (Max Planck Institut für Intelligent Systems); Bernd Eberhardt (Media University Stuttgart); Hendrik P. A. Lensch (University of Tübingen)	
P2-37	323	Unsupervised Intuitive Physics from Visual Observations	Sebastien Ehrhardt (University of Oxford)*; Andrea Vedaldi (Oxford University); Niloy Mitra (University College London); Aron Monzspart (University College London)	
P2-38	146	Deep mixture of MRFs for human pose estimation	Marras Ioannis (Queen Mary University of London)*; Petar Palasek (Queen Mary University of London); Ioannis Patras (Queen Mary University of London)	
P2-39	807	Gaussian Process Deep Belief Networks: A Smooth Generative Model of Shape with Uncertainty Propagation	Alessandro Di Martino (University of Bath)*; Erik Bodin (University of Bristol); Carl Henrik Ek (Bristol University); Neill Campbell (University of Bath)	
P2-40	22	Gated Hierarchical Attention for Image Captioning	Qingzhong Wang (Department of Computer Science, City University of Hong Kong)*; Antoni Chan (City University of Hong Kong, Hong Kong)	
P2-41	1104	Dealing with Ambiguity in Robotic Grasping via Multiple Predictions	Ghazal Ghazaei (Newcastle University)*; Iro Laina (Technical University of Munich); Christian Rupprecht (University of Oxford); Federico Tombari (Technical University of Munich, Germany); Nassir Navab (TU Munich, Germany); Kia Nazarpour (Newcastle University)	

1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P2-42	1101	Adaptive Visual-Depth Fusion Transfer	Ziyun Cai (Nanjing University of Posts and Telecommunications)*; Yang Long (Newcastle University); Xiao-Yuan Jing (Wuhan University); Ling Shao (Inception Institute of Artificial Intelligence)	
P2-43	783	Solving Minimum Cost Lifted Multicut Problems by Node Agglomeration	Margret Keuper (University of Mannheim); Amirhossein Kardoost (Mannheim University)*	
P2-44	697	Robust Deep Multi-modal Learning Based on Gated Information Fusion Network	Jaekyung Kim (Hanyang University)*; Junho Koh (Hanyang University); Yechoul Kim (Hanyang University); Jaehyung Choi (Phantom AI, Inc.); Youngbae Hwang (KETI); Jun Won Choi (Hanyang University)	
P2-45	421	Hardware-aware Softmax Approximation for Deep Neural Networks	Xue Geng (A-STAR)*; Jie Lin (Institute for Infocomm Research (I2R), Singapore); Bin Zhao (NII); Anmin Kong (Institute for Infocomm Research (I2R), Singapore); Mohamed Sabry Aly (Nanyang Technological University); Vijay Chandrasekar (Institute for Infocomm Research)	
P2-46	587	Video Object Segmentation with Language Referring Expressions	Anna Khoreva (Max-Planck-Institut für Informatik)*; Anna Rohrbach (UC Berkeley); Bernt Schiele (MPI)	
P2-47	1056	Nonlinear Subspace Feature Enhancement for Image Set Classification	Mohammed E Fathy (University of Maryland College Park)*; Azadeh Alavi (University of Maryland); Rama Chellappa (University of Maryland, USA)	
P2-48	273	Continual Occlusions and Optical Flow Estimation	Michal Neoral (CMP FEE Czech Technical University in Prague)*; Jan Sochman (Czech Technical University in Prague); Jiri Matas (CMP CTU FEE)	
P2-49	944	Adversarial Learning for Visual Storytelling with Sense Group Partition	Lingbo Mo (Beijing University of Posts and Telecommunications)*; Chunhong Zhang (Beijing University of Posts and Telecommunications); Yang Ji (Beijing University of Posts and Telecommunications)	
P2-50	454	Laser Scar Detection in Fundus Images using Convolutional Neural Networks	Qijie Wei (Renmin University of China)*; Xirong Li (Renmin University of China); Hao Wang (Renmin University of China); Dayong Ding (Vistel Inc.); Weihong Yu (Peking Union Medical College Hospital); Youxin Chen (Peking Union Medical College Hospital)	
P2-51	1140	Gradient-Guided DCNN for Inverse Half-Tone and Image Expanding	yi xiao (Hunan University)*; Chao Pan (Hunan University); yan zheng (Hunan University); xianyi zhu (Hunan University); Zheng Qin (Hunan University)	

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1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P2-52	10	Learning from PhotoShop Operation Videos: the PSOV Dataset	Jingchun Cheng (Tsinghua University); Han-Kai Hsu (University of California - Merced); CHEN FANG (Adobe Research, San Jose, CA); Hailin Jin (Adobe Research); Shengjin Wang (Tsinghua University)*; Ming-Hsuan Yang (University of California at Merced)	
P2-53	673	A Joint Local and Global Deep Metric Learning Method for Caricature Recognition	Wenbin Li (Nanjing University)*; Jing Huo (Nanjing University); Yinghuan Shi (Nanjing University); Yang Gao (Nanjing University); Lei Wang (*University of Wollongong, Australia*); Jiebo Luo (University of Rochester)	
P2-54	110	Fast Single Shot Instance Segmentation	Zuoxin Li (Beihang University)*; Fuqiang Zhou (Beihang University); Lu Yang (Beijing University of Posts and Telecommunications)	
P2-55	1143	A Stable Algebraic Camera Pose Estimation for Minimal Configurations of 2D/3D Point and Line Correspondences	Lipu Zhou (Carnegie Mellon University)*; Michael Kaess (Carnegie Mellon University)	
P2-56	350	Symmetry-aware Face Completion with Generative Adversarial Networks	Jiawan Zhang (Tianjin University); Rui Zhan (Tianjin University); Di Sun (Tianjin University)*; Gang Pan (Tianjin University)	
P2-57	964	GrowBit: Incremental Hashing for Cross-Modal Retrieval	Devraj Mandal (Indian Institute of Science, Bangalore)*; Yashas Annadani (Indian Institute of Science, Bangalore); Soma Biswas (Indian Institute of Science, Bangalore)	
P2-58	924	Region-Semantics Preserving Image Synthesis	Kang-Jun Liu (National Tsing Hua University); Tsu-Jui Fu (National Tsing Hua University); Shan-Hung Wu (National Tsing Hua University)*	
P2-59	725	SemiStarGAN: Semi-Supervised Generative Adversarial Networks for Multi-Domain Image-to-Image Translation	Shu-Yu Hsu (National Taiwan University)*; Chih-Yuan Yang (National Taiwan University); Chi-Chia Huang (National Taiwan University); Jane Yung-jen Hsu (National Taiwan University)	
P2-60	823	Gated Transfer Network for Transfer Learning	Yi Zhu (UC Merced)*; Jia Xue (Rutgers University); Shawn Newsam (UC Merced)	
P2-61	1110	Detecting Anomalous Trajectories via Recurrent Neural Networks	Cong Ma (Beijing Jiaotong University)*; Zhenjiang Miao (Beijing Jiaotong University); Min Li (Beijing Jiaotong University); Shaoyue Song (Beijing Jiaotong University); Ming-Hsuan Yang (University of California at Merced)	

1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P2-62	8	A Binary Optimization Approach for Constrained K-Means Clustering	Huu Le (Queensland University of Technology)*; Michael Milford (ACRV and QUT, Australia); Thanh-Toan Do (The University of Adelaide); Anders Eriksson (QUT)	
P2-63	412	LS3D: Single-View Gestalt 3D Surface Reconstruction from Manhattan Lines Segments	Yiming Qian (York University)*; Sri Kumar Ramalingam (University of Utah); James Elder (York University)	
P2-64	530	Deep Supervised Hashing with Spherical Embedding	Stanislav Pidhorskyi (West Virginia University)*; Quinn K Jones (West Virginia University); Saeid Motian (West Virginia University); Donald adjeroh (West Virginia University); Gianfranco Doretto (West Virginia University)	
P2-65	1025	Semantic Aware Attention Based Deep Object Co-segmentation	Hong Chen (the University of Tokyo)*; Yifei Huang (The University of Tokyo)	
P2-66	1109	PIRC Net : Using Proposal Indexing, Relationships and Context for Phrase Grounding	Rama Nkouvuri (Univ. Southern California, LA, USA)*; Ram Nevatia (U of Southern California)	
P2-67	915	Paired-D GAN for Semantic Image Synthesis	Minh Duc Vo (The Graduate University for Advanced Studies)*; Akihiro Sugimoto (NII)	
P2-68	483	Skeleton Transformer Networks: 3D Human Pose and Skinned Mesh from Single RGB Image	Yusuke Yoshiyasu (AIST)*; Ryusuke Sagawa (*AIST, Japan*); Ko Ayusawa (AIST); Akihiko Murai (AIST)	
P2-69	921	Detecting Text in the Wild with Deep Character Embedding Network	Jiaming JL Liu (Baidu Inc.)*; Chengquan Zhang (Baidu Inc.); Yipeng Sun (Baidu Inc.); Junyu Han (Baidu Inc.); Errui Ding (Baidu Inc.)	
P2-70	316	Design Pseudo Ground Truth with Motion Cue for Unsupervised Video Object Segmentation	Ye Wang (University of Southern California)*; Jongmoo Choi (University of Southern California, USA); Yueru Chen (University of Southern California); Qin Huang (University of Southern California); Siyang Li (University of Southern California); C.-C. Jay Kuo (USC)	
P2-71	723	Identity-Enhanced Network for Facial Expression Recognition	Yanwei Li (Institute of Automation, CAS; University of Chinese Academy of Sciences)*; Shilei Zhang (IBM Research); Lingxi Xie (JHU); Wenqi Wu (Institute of Automation, CAS; University of Chinese Academy of Sciences); Hongyuan Yu (Institute of Automation, CAS; University of Chinese Academy of Sciences); Xingang Wang (Institute of Automation, CAS)	

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1:30pm—4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P2-72	1023	A Novel Multi-scale Invariant Descriptor Based on Contour and Texture for Shape Recognition	Jishan Guo (Wuhan University of Technology); Rong yi (Wuhan University of Technology); Yongsheng Gao (Griffith university, Australia); Liu ying (Wuhan University of Technology); Shengwu Xiong (Wuhan University of Technology)*	
P2-73	747	PRemVOS: Proposal-generation, Refinement and Merging for Video Object Segmentation	Jonathon Luiten (RWTH Aachen University)*; Bastian Leibe (RWTH Aachen University-); Paul Voigtlaender (RWTH Aachen University)	
P2-74	1181	ColorNet: Investigating the importance of color spaces for image classification	Shreyank N Gowda (Tsinghua University)*	
P2-75	1195	Pooling-based Feature Extraction and Coarse-to-fine Patch Matching for Optical Flow Estimation	Xiaolin Tang (University of Wollongong)*; Son Lam Phung (University of Wollongong); Abdesselam Bouzerdoum (University of Wollongong); Van Ha Tang (University of Wollongong)	



3:30pm—4:00pm		Afternoon Tea		Riverside Theatre Foyer
4:00pm—5:40pm		Oral Session O4: Detection, Segmentation, and Action		Riverside Theatre
Time	Oral Number	Title	Authors	
4:00pm—4:12pm	O4-1: 191	Unseen Object Segmentation in Videos via Transferable Representations	Yi-Wen Chen (Academia Sinica)*; Yi-Hsuan Tsai (NEC Labs America); Chu-Ya Yang (Academia Sinica); Yen-Yu Lin (Academia Sinica); Ming-Hsuan Yang (University of California at Merced)	
4:12pm—4:24pm	O4-2: 703	Forget & Diversify: Regularized Refinement for Weakly Supervised Object Detection	Jeany Son (POSTECH)*; Daniel Kim (POSTECH); Solae Lee (POSTECH); Suha Kwak (POSTECH); Minsu Cho (POSTECH); Bohyung Han (Seoul National University)	
4:24pm—4:36pm	O4-3: 1057	Task-adaptive Feature Reweighting for Few Shot Classification	Nan Lai (Chinese Academy of Sciences)*; Meina Kan (CAS); Shiguang Shan (CAS); Xilin Chen (CAS)	
4:36pm—4:48pm	O4-4: 130	Deep attention-based classification network for robust depth prediction	Ruibo Li (Huazhong University of Science and Technology)*; Ke Xian (Huazhong Univ. of Sci.&Tech.); Chunhua Shen; Zhiguo Cao; Hao Lu; Lingxiao Hang (Huazhong University of Science and Technology)	
4:48pm—5:00pm	O4-5: 735	Predicting Video Frames using Feature Based Locally Guided Objectives	Prateep Bhattacharjee (Indian Institute of Technology Madras)*; Sukhendu Das (Indian Institute of Technology, Madras)	
5:00pm—5:12pm	O4-6: 249	A New Temporal Deconvolutional Pyramid Network for Action Detection	Xiangli Ji (Peking university)*; Guibo Luo (Peking University); Yuesheng ZHU (Peking University)	
5:12pm—5:24pm	O4-7: 34	Dynamic Temporal Pyramid Network: A Closer Look at Multi-Scale Modeling for Activity Detection	Da Zhang (UC Santa Barbara)*; Xiyang Dai (UMD); Yuan-Fang Wang (UC Santa Barbara)	
5:24pm—5:36pm	O4-8: 50	Global Regularizer and Temporal-aware Cross-entropy for Skeleton-based Action Prediction	Qihong Ke (UWA)*; Jun Liu (Nanyang Technological University); Mohammed Bannamoun (University of Western Australia); Hossein Rahmani (Lancaster University); Senjan An (University of Western Australia); Ferdous Sohel (Murdoch University); Farid Boussaid (University of Western Australia)	
6.30pm – 10.30pm		iCetana Gala Dinner		BelleVue Ballroom

6th December 2018

8:45am – 9:00am	Welcome			<i>Riverside Theatre</i>
9:00am – 10:00am	Keynote Talk 3 Dr Zhengyou Zhang, Tencent			
10:00am – 10:30am	Morning Tea			<i>Riverside Theatre Foyer</i>
10:30am – 12:00am	Oral Session O5: 3D Vision and Pose			<i>Riverside Theatre</i>
Time	Oral Number	Title	Authors	
10:30am – 10:42am	O5-1: 499	All creatures great and SMAL: Recovering the shape and motion of animals from video	Benjamin J Biggs (University of Cambridge)*; Thomas Roddick (Department of Engineering, University of Cambridge); Andrew Fitzgibbon (Microsoft Research); Roberto Cipolla (University of Cambridge)	
10:42am – 10:54am	O5-2: 766	EdgeStereo: A Context Integrated Residual Pyramid Network for Stereo Matching	Xiao Song (Shanghai Jiao Tong University); Xu Zhao (Shanghai Jiao Tong University)*; Hanwen Hu (Shanghai Jiao Tong University); Liangji Fang (Shanghai Jiao Tong University)	
10:54am – 11:06am	O5-3: 364	Rectification from Radially-Distorted Scales	James Pritts (Czech Institutes of Informatics, Robotics and Cybernetics)*; Zuzana Kukelova (Czech Technical University in Prague); Viktor Larsson (ETH Zurich); Ondrej Chum (Vision Recognition Group, Czech Technical University in Prague)	
11:06am – 11:18am	O5-4: 685	Self-Supervised Learning of Depth and Camera Motion from 360° Videos	Fu-En Wang (National Tsing Hua University)*; Hou-Ning Hu (National Tsing Hua University); Hsien-Tzu Cheng (National Tsing Hua University); Juan-Ting Lin (ETH Zurich); Shang-Ta Yang (National Tsing Hua University); Meng-Li Shih (National Tsing Hua University); James Hung-Kuo Chu (National Tsing Hua University); Min Sun (NTHU)	
11:18am – 11:30am	O5-5: 12	Domain Transfer for 3D Pose Estimation from Color Images without Labeled Color Images	Mahdi Rad (TU Graz)*; Markus Oberweger (TU Graz); Vincent Lepetit (TU Graz)	
11:30am – 11:42am	O5-6: 1075	Partially Occluded Hands: A challenging new dataset for single-image hand pose estimation	Battushig Myanganbayar (MIT); Cristina Mata (MIT); Gil Dekel (Hunter College, City University of New York); Boris Katz (MIT); Guy Ben-Yosef (Massachusetts Institute of Technology); Andrei Barbu (MIT)*	
11:42am – 11:54am	O5-7: 216	Cross Pixel Optical Flow Similarity for Self-Supervised Learning	Aravindh Mahendran (University of Oxford)*; James Thewlis (University of Oxford); Andrea Vedaldi (Oxford University)	
12:00pm – 1:30pm	Lunch			<i>Riverside Theatre Foyer</i>

1:30pm – 4:00pm		Poster Session P2 (continued)		<i>Riverside Theatre Foyer</i>
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-1	1080	DSNet: Deep and Shallow Feature Learning for Efficient Visual Tracking	Qiangqiang Wu (Xiamen University); Yan Yan (Xiamen University); Yanjie Liang (Xiamen University); Yi Liu (Xiamen University); Hanzi Wang (Xiamen University)*	
P3-2	782	Self-Registration Lightweight Network for Accurate Image Super Resolution	Chia-yang Chang (National Taiwan University)*; Shao-Yi Chien (National Taiwan University)	
P3-3	174	Loss Guided Activation for Action Recognition in Still Images	lu liu (NUS)*; Robby T. Tan (NUS); Shaodi You (Data61-CSIRO, Australia)	
P3-4	1157	Visual Odometry for Indoor Mobile Robot by Recognizing Local Manhattan Structures	Zhixing Hou (Nanjing University of Science and Technology)*; Yaqing Ding (Nanjing University of Science and Technology); Ying Wang (Nanjing University of Science and Technology); Hang Yang (Nanjing University of Science and Technology); Kong Hui (Nanjing University of Science and Technology)	
P3-5	1178	Capsule Based Image Synthesis for Interior Design Effect Rendering	Fei Yang (University of Nottingham Ningbo China)*; Qian Zhang (University of Nottingham Ningbo China); Zheng Lu (University of Nottingham Ningbo China); Jing Lin (Shandong Jianzhu University); Guoping Qiu (Shenzhen University)	
P3-6	1047	Deep Upright Adjustment of 360 Panoramas Using Multi-view Roll Estimation	Junho Jeon (POSTECH); Jinwoong Jung (POSTECH); Seungyong Lee (POSTECH)*	
P3-7	160	DN-ResNet: Efficient Deep Residual Network for Image Denoising	Haoyu Ren (Samsung Research USA)*; Mostafa El-Khamy (Samsung Research USA); Jungwon Lee (Samsung Research USA)	
P3-8	809	TKDN: Scene Text Detection via Keypoints Detection	Yuanshun Cui (Institute of Computing Technology, Chinese Academy of Sciences); Jie Li (Institute of Computing Technology, Chinese Academy of Sciences); Hu Han (Chinese Academy of Sciences)*; Shiguang Shan (Chinese Academy of Sciences); Xilin Chen (China)	
P3-9	639	Scale-Varying Triplet Ranking with Classification Loss for Facial Age Estimation	Woobin Im (KAIST)*; Sungeun Hong (T-Brain in AI Research Center, SK telecom); Sungeui Yoon (KAIST); Hyun S. Yang (KAIST)	
P3-10	1190	Large Scale Scene Text Verification with Guided Attention	dafang he (The Penn State University)*; Yeqing Li (Google); Derrall Heath (Google); Alexander Gorban (Google); Julian Ibarz (Google); Qian Yu (Google); Lee Giles (Pennsylvania State); Dan Kifer (Pennsylvania State Univ., USA)	

Thursday 6th December 2018

1:30pm—4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-11	846	On Learning Associations of Faces and Voices	Changil Kim (MIT CSAIL)*; Hujung Valentina Shin (Adobe); Tae-Hyun Oh (MIT CSAIL); Alexandre Kaspar (MIT CSAIL); Mohamed A. Elghareb (Qatar Computing Research Institute); Wojciech Matusik (Adobe)	
P3-12	338	Hand Pose Estimation based on 3D Residual Network with Data Padding and Skeleton Steadying	Pai-Wen Ting (National Taiwan University); En-Te Chou (National Taiwan University); Ya-Hui Tang (National Taiwan University); Li-Chen Fu (National Taiwan University)*	
P3-13	935	Continuous-time Intensity Estimation Using Event Cameras	Cedric Scheerlinck (The Australian National University)*; Robert Mahony (Australian National University); Nick Barnes (CSIRO/Data61)	
P3-14	131	Comprehensive Feature Enhancement Module for Single-Shot Object Detector	Qijie Zhao (Peking University); Yongtao Wang (Peking University)*; Tao Sheng (Peking University); Zhi Tang (Peking University)	
P3-15	777	SingleGAN: Image-to-Image Translation by a Single-Generator Network using Multiple Generative Adversarial Learning	Xiaoming Yu (Peking University); xing cai (Peking University); Zhenqiang Ying (Shenzhen Graduate School, Peking University); Thomas H Li (Peking University, Shenzhen Graduate School); Ge Li (Shenzhen Graduate School, Peking University)*	
P3-16	1019	Deep Embedding using Bayesian Risk Minimization with Application to Sketch Recognition	Anand Mishra (IISc Bangalore)*; Ajeet Kumar Singh (TCS Innovation Labs)	
P3-17	788	Geodesic via Asymmetric Heat Diffusion Based on Finsler Metric	Fang Yang (Wuhan University of Science and Technology)*	
P3-18	793	Putting the Anchors Efficiently: Geometric Constrained Pedestrian Detection	Liangji Fang (Shanghai Jiao Tong University); Xu Zhao (Shanghai Jiao Tong University)*; Xiao Song (Shanghai Jiao Tong University); Shiquan Zhang (Shanghai Jiao Tong University); Ming Yang (Shanghai Jiao Tong University)	
P3-19	758	Multi-label Learning from Noisy Labels with Non-linear Feature Transformation	Mengying Hu (Chinese Academy of Sciences); Hu Han (Chinese Academy of Sciences)*; Shiguang Shan (Chinese Academy of Sciences); Xilin Chen (Chinese Academy of Sciences)	

1:30pm—4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-20	63	Robust Angular Loss for Local Descriptor Learning	Yanwu Xu (Pittsburgh University)*; Mingming Gong (University of Pittsburgh); Tongliang Liu (The University of Sydney); Kayhan Batmanghelich (University of Pittsburgh / Carnegie Mellon University); Chaohui Wang (Laboratoire d'Informatique Gaspard Monge, Université Paris-Est)	
P3-21	585	Weighted Feature Pooling Network in Template-Based Recognition	Zekun Li (USC)*; Rex Yue Wu (USC ISI); Wael Abd-Almageed (Information Sciences Institute); Prem Natarajan (USC ISI)	
P3-22	469	Efficient Multi-level Correlating for Visual Tracking	Yipeng Ma (Harbin Institute of Technology, Shenzhen)*; Chun Yuan (Tsinghua University); Peng Gao (Harbin Institute of Technology, Shenzhen); Fei Wang (Harbin Institute of Technology, Shenzhen)	
P3-23	406	Scalable Deep k-Subspace Clustering	Tong Zhang (Australian National University)*; Pan Ji (NEC Laboratories America); Mehrtash Harandi (Monash University); Richard Hartley (Australian National University, Australia); Ian Reid (University of Adelaide, Australia)	
P3-24	1013	Siamese Generative Adversarial Privatizer for Biometric Data	Witold Oleszkiewicz (Warsaw University of Technology)*; Tomasz Włodarczyk (Warsaw University of Technology); Karol Piczak (Warsaw University of Technology); Tomasz Trzcinski (Warsaw University of Technology); Peter Kairouz (Stanford University); Ram Rajagopal (Stanford University)	
P3-25	437	Exploiting LSTM for Joint Object and Semantic Part Detection	Qi Yao (Zhejiang University)*; Xiaojin Gong (Zhejiang University)	
P3-26	246	X-GACMN An X-Shaped Generative Adversarial Cross-Modal Network with Hypersphere Embedding	Weikuo Guo (Dalian University of Technology); Jian Liang (National Laboratory of Pattern Recognition); Xiangwei Kong (Dalian University of Technology)*; Lingxiao Song (Chinese Academy of Sciences); Ran He (Chinese Academy of Sciences)	
P3-27	691	Reverse Densely Connected Feature Pyramid Network for Object Detection	Yongjian Xin (Institute of Computing Technology, Chinese Academy of Sciences)*; Shuhui Wang (vip/ict, Chinese academic of science); Liang Li (Chinese Academy of Sciences); Weigang Zhang (Harbin Institute of Technology, Weihai); Qingming Huang (Chinese Academy of Sciences)	
P3-28	1149	Image-to-GPS Verification Through A Bottom-Up Pattern Matching Network	Jiaxin Cheng (USC Information Sciences Institute)*; Rex Yue Wu (USC ISI); Wael Abd-Almageed (Information Sciences Institute); Prem Natarajan (USC ISI)	

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1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-29	821	VIPL-HR: A Multi-modal Database for Pulse Estimation from Less-constrained Face Video	Xuesong Niu (Chinese Academy of Sciences); Hu Han (Chinese Academy of Sciences)*; Shiguang Shan (Chinese Academy of Sciences); Xilin Chen (Chinese Academy of Sciences)	
P3-30	1084	Multi-level Dense Capsule Networks	Sai Samarth R Phayre (Indian Institute of Technology, Ropar)*; Apoorva Sikka (Indian Institute of Technology, Ropar); Abhinav Dhall (Indian Institute of Technology, Ropar); Deepti Bathula (Indian Institute of Technology, Ropar)	
P3-31	1053	DHSGAN: An End to End Dehazing Network for Fog and Smoke	Ramavtar Malav; Ayoung Kim; Soumya Ranjan Sahoo; Gaurav Pandey	
P3-32	1173	Learning Deeply Supervised Good Features to Match for Dense Monocular Reconstruction	Chamara Saroj Weerasekera (University of Adelaide); Ravi Garg (University of Adelaide)*; Yasir Latif (University of Adelaide); Ian Reid (University of Adelaide)	
P3-33	278	DeepAMD: Detect Early Age-Related Macular Degeneration by Applying Deep Learning in a Multiple Instance Learning Framework	Huiying Liu (Institute for Infocomm Research)*; Damon Wong (Institute for Infocomm Research); Huazhu Fu (ASTAR); Yanwu Xu (Baidu Inc.); Jimmy Liu (Institute for Infocomm Research, A* STAR)	
P3-34	165	Depth reconstruction of translucent objects from a single Time-of-flight camera using deep residual networks	Seongjong Song (Yonsei University); Hyunjung Shim (Yonsei University)*	
P3-35	885	Predicting Driver Attention in Critical Situations	Ye Xia (UC Berkeley)*; Danqing Zhang (UC Berkeley); Jinkyu Kim (UC Berkeley); Karl Zipser (UC Berkeley); Ken Nakayama (Harvard University); David Whitney (UC Berkeley)	
P3-36	1043	Aligning and Updating Cadaster Maps with Aerial Images by Multi-Resolution, Multi-Task Deep Learning	Nicolas Girard (Inria Sophia-Antipolis)*; Yuliya Tarabalka (Inria Sophia-Antipolis); Guillaume Charpiat (INRIA)	
P3-37	746	SPNet: Deep 3D Object Classification and Retrieval using Stereographic Projection	Mohsen Yavartanoo (Seoul National University); Euyoung Kim (Seoul National University); Kyoung Mu Lee (Seoul National University)*	

1:30pm–4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-38	213	SRC-Disp: Synthetic-Realistic Collaborative Learning for Disparity Estimation	Guorun Yang (Tsinghua University)*; Zhidong Deng (Tsinghua University); Hongchao Lu (Tsinghua University); Zeping Li (Tsinghua University)	
P3-39	1066	Revisiting Distillation and Incremental Classifier Learning	Khurram Javed (National University of Sciences and Technology)*; Faisal Shafait (National University of Sciences and Technology (NUST))	
P3-40	674	Common Self-polar Triangle of Concentric Conics for Light Field Camera Calibration	Qi Zhang (Northwestern Polytechnical University)*; Qing Wang (Northwestern Polytechnical University)	
P3-41	1001	CubemapSLAM: A Piecewise-Pinhole Monocular Fisheye SLAM System	Yahui Wang (Nankai University)*; Shaojun Cai (UISEE); Shi-Jie Li (Nankai University); Yun Liu (Nankai University); Tao Li (Nankai University); Ming-Ming Cheng (Nankai University)	
P3-42	986	Dense Light Field Reconstruction From Sparse Sampling Using Residual Network	Mantang Guo (Northwestern Polytechnical University)*; Hao Zhu (Northwestern Polytechnical University); Guoqing Zhou (Northwestern Polytechnical University); Qing Wang (Northwestern Polytechnical University)	
P3-43	1046	Exploring the Challenges towards Lifelong Fact Learning	Mohamed Elhoseiny (Facebook AI Research)*; Francesca babiloni (KU Leuven); Rahaf Aljundi (KU Leuven); Marcus Rohrbach (Facebook AI Research); Manohar Paluri (Facebook); Tinne Tuytelaars (K.U. Leuven)	
P3-44	205	Geometric Image Synthesis	Hassan Abu Alhaja (Interdisciplinary Center for Scientific Computing Heidelberg)*; Siva Karthik Mustikovela (Uni Heidelberg); Andreas Geiger (MPI-IS and University of Tuebingen); Carsten Rother (University of Heidelberg)	
P3-45	1107	Partial Person Re-identification with Alignment and Hallucination	Sara Iodice (Imperial College)*; Krystian Mikolajczyk (Imperial College London)	
P3-46	919	FSNet: An Identity-aware Generative Model for Image-based Face Swapping	Ryota Natsume (Waseda University)*; Tatsuya Yatawaga (Waseda University); Shigeo Morishima (Waseda Research Institute for Science and Engineering)	

1:30pm—4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-47	264	A Data-Driven Approach for Direct and Global Component Separation from a Single Image	Shijie Nie (National Institute of Informatics)*; Ilyes Kacher (National Institute of Informatics); Lin Gu (National Institute of Informatics, Japan); Art Subpa-asa (Tokyo Institute of Technology); Imani Sato (National Institute of Informatics); Ko Nishino (Kyoto University)	
P3-48	999	ScoringNet: Learning Key Fragment for Action Quality Assessment with Ranking Loss in Skilled Sports	Yongjun Li (Institute Of Computing Technology Chinese Academy Of Sciences)*; xiujuan chai (ICT); xilin chen ("ICT, Chinese Academy of Sciences, China")	
P3-49	908	Style Transfer with Adversarial Learning for Cross-Dataset Person Re-identification	Furong Xu (University of Chinese Academy of Sciences)*; Bingpeng Ma (UCAS); hong chang (Institute of Computing Technology Chinese Academy)	
P3-50	325	Automatic Graphics Program Generation using attention-Based Hierarchical Decoder	Zhihao Zhu (Xi'an Jiaotong University)*; Zhan Xue (Xi'an Jiaotong university); Zejian Yuan (Xi'an Jiaotong University)	
P3-51	245	Occlusion Aware Stereo Matching via Cooperative Unsupervised Learning	Ang Li (Xi'an Jiaotong University)*; Zejian Yuan (Xi'an Jiaotong University)	
P3-52	1099	Background Subtraction based on Fusion of Color and Local Patterns	Md Rifat Arefin (Kyung Hee University)*; Farkhod F. Makhmudkhujayev (Kyung Hee University); Oksam Chae (Kyung Hee University); Jaemyun Kim (Kyung Hee University)	
P3-53	1223	A Coded Aperture for Watermark Extraction from Defocused Images	Hiroki Hamasaki (Kagoshima University); Shingo Takeshita (Kagoshima University); Kentaro Nakai (Kagoshima University); Toshiki Sonoda (Kyushu University); Hiroshi Kawasaki (Kyushu univ.); Hajime Nagahara (Osaka University); Satoshi Ono (Kagoshima University)*	
P3-54	1232	Towards Locally Consistent Object Counting with Constrained Multi-stage Convolutional Neural Networks	Muming Zhao (University of Technology, Sydney)*; Jian Zhang (UTS); Chongyang Zhang (Shanghai Jiao Tong University); Wenjun Zhang (Shanghai Jiao Tong University)	
P3-55	838	An Improved Learning Framework for Covariant Local Feature Detection	Nehal Dophode (IIT Bombay); Rahul Mitra (Indian Institute Of Technology Bombay)*; Shuaib Ahmed (Mercedes-Benz R&D India); Arjun Jain (IIT Bombay)	

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1:30pm—4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-56	1262	Better Guider Predicts Future Better: Difference Guided Generative Adversarial Networks	Guohao Ying (Huazhong University of Science and Technology)*; Yingtian Zou (National University of Singapore); Lin Wan (Huazhong University of Science and Technology); Yiming Hu (Huazhong University of Science and Technology); Jiashi Feng (NUS)	
P3-57	82	Guided Feature Selection for Deep Visual Odometry	Fei Xue (Peking University)*; Qiuyan Wang (Peking University); Xin Wang (Peking University); Wei Dong (Peking University); Junqiu Wang (Beijing Changcheng Aviation Measurement and Control Institute); Hongbin Zha (Peking University)	
P3-58	898	Appearance-based Gaze Estimation using Dilated-Convolutions	Zhaokang Chen (HKUST)*; Bertram Shi (ECE Department of HKUST)	
P3-59	1205	Deep Clustering and Block Hashing Network for Face Image Retrieval	Young Kyun Jang (Seoul National University)*; Dong-ju Jeong (Seoul National University); Seok Hee Lee (Seoul National University); Nam Ik Cho (Seoul National University)	
P3-60	572	Learning Energy Based Inpainting for Optical Flow	Christoph Vogel ("TU Graz, Austria")*; Thomas Pock (Graz University of Technology)	
P3-61	946	Learning Background Subtraction by Video Synthesis and Multi-scale Recurrent Networks	Sungkwon Choo (Seoul National University)*; Wonkyo Seo (Seoul National University); Dong-ju Jeong (Seoul National University); Nam Ik Cho (Seoul National University)	
P3-62	1220	Universal Bounding Box Regression and Its Applications	Seungkwan Lee (POSTECH)*; Suha Kwak (POSTECH); Minsu Cho (POSTECH)	
P3-63	194	Continuous-time Visual Odometry Based on Dynamics Model	Xin Wang (Peking University)*; Fei Xue (Peking University); Zike Yan (Harbin Engineering University); Wei Dong (Carnegie Mellon University); Qiuyan Wang (Peking University); Hongbin Zha (Peking University, China)	
P3-64	150	A2A: Attention to Attention Reasoning for Movie Question Answering	Chao-Ning Liu (National Tsing Hua University); Ding-Jie Chen (Academia Sinica); Hwann-Tzong Chen (National Tsing Hua University)*; Tyng-Luh Liu (Academia Sinica)	
P3-65	153	TramNet - Transition Matrix Network for Efficient Action Tube Proposals	Gurkirt Singh (Oxford Brookes University)*; Suman Saha (Oxford Brookes University); Fabio Cuzzolin (Oxford Brookes University)	

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1:30pm—4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-66	302	Shape-conditioned Image Generation by Learning Latent Appearance Representation from Unpaired Data	Yutaro Miyauchi (Osaka university)*; Yusukey Sugano (Osaka University); Yasuyuki Matsushita (Osaka University)	
P3-67	771	Dense In Dense: Training Segmentation from Scratch	Tao Hu (University of Amsterdam)*	
P3-68	667	Can Maxout Units Downsize Restoration Networks? - Single Image Super-Resolution Using Lightweight CNN with Maxout Units	Jae-Seok Choi (KAIST-VCLab)*; Munchul Kim (KAIST-VCLab)	
P3-69	392	AVID: Adversarial Visual Irregularity Detection	Mohammad Sabokrou (Institute for Research in fundamental science (IPM))*; Masoud Pourreza (HAMIM); Mohsen Fayyaz (University of Bonn); rahim entezari (Iran University of Science and Technology); Mahmood Fathy (IUST); Jürgen Gall (University of Bonn); Ehsan Adeli (Stanford University)	
P3-70	6	Localization-Aware Active Learning for Object Detection	Chieh-Chi Kao (University of California, Santa Barbara); Teng-Yok Lee (Mitsubishi Electric Research Laboratories (MERL))*; Pradeep Sen (UC Santa Barbara); Ming-Yu Liu (Mitsubishi Electric Research Laboratories (MERL))	
P3-71	59	Deep Inverse Halftoning via Progressively Residual Learning	Menghan Xia (The Chinese University of Hong Kong)*; Tien-Tsin Wong (The Chinese University of Hong Kong)	
P3-72	905	Dynamic Random Walk for Superpixel Segmentation	Lei Zhu (Beijing University of Posts and Telecommunications); Xuejing Kang (Beijing University of Posts and Telecommunications)*; Anlong Ming (Beijing University of Posts and Telecommunications); Xuesong Zhang (Beijing University of Posts and Telecommunications)	
P3-73	180	BAN: Focusing on Boundary Context for Object Detection	YongHyun Kim (POSTECH)*; Taewook Kim (POSTECH); Bong-Nam Kang (POSTECH); Daijin Kim (Pohang University of Science and Technology)	
P3-74	654	Rethinking Planar Homography Estimation Using Perspective Fields	Rui Zeng (Queensland University of Technology)*; SIMON DENMAN (Queensland University of Technology, Australia); Sridha Sridharan (QUT); Clinton Fookes (Queensland University of Technology)	

1:30pm—4:00pm		Poster Session P2 (continued)		Riverside Theatre Foyer
Poster Session & Board Number	Paper Number	Paper Title	Authors	
P3-75	57	Multivariate Attention Network for Image Captioning	Weixuan Wang (School of Electronic and Information Engineering, Sun Yat-sen University)*; Zhihong Chen (School of Electronic and Information Engineering, Sun Yat-sen University); Haifeng Hu (School of Electronic and Information Engineering, Sun Yat-sen University)	
P3-76	179	Age-Puzzle FaceNet for Cross-Age Face Recognition	Yangjian Huang (Sun Yat-sen University); Wendong Chen (Sun Yat-sen University); Haifeng Hu (School of Electronic and Information Engineering, Sun Yat-sen University)*	
P3-77	914	Video-based Person Re-identification via 3D Convolutional Networks and Non-local Attention	Xingyu Liao (University of Science and Technology of China)*; Lingxiao He (Chinese Academy of Sciences); Chi Zhang (Megvii Inc.); Zhouwang Yang (University of Science and Technology of China)	
3:00pm—4:00pm		Afternoon Tea		Riverside Theatre Foyer
4:00pm—5:25pm		Oral Session O6: Vision and Language, semantics, and low-level vision		Riverside Theatre
Time	Oral Number	Title	Authors	
4:00pm—4:12pm	O6-1: 523	ReCoNet: Real-time Coherent Video Style Transfer Network	Chang Gao (The University of Hong Kong)*; Derun Gu (The University of Hong Kong); Fangjun Zhang (The University of Hong Kong); Yizhou Yu (Deepwise AI Lab & HKU)	
4:12pm—4:24pm	O6-2: 411	Pose Invariant Virtual Try-On Shoe with Conditional Image Completion	Chao-Te Chou; Cheng-Han Lee; Kaipeng Zhang; Hu Cheng Lee; Winston Hsu	
4:24pm—4:36pm	O6-3: 1183	Dynamic Gated Graph Neural Networks for Scene Graph Generation	Mahmoud Khademi (Simon Fraser University)*; Oliver Schulte (Simon Fraser University)	
4:36pm—4:48pm	O6-4: 297	DOOBNet: Deep Object Occlusion Boundary Detection from an Image	Guoxia Wang (Beihang University)*; Xiaohui Liang (State Key Laboratory of Virtual Reality Technology and Systems, Beihang University); Frederick W. B. Li (University of Durham)	
4:48pm—5:00pm	O6-5: 250	Spherical Superpixels: Benchmark and Evaluation	Liang Wan (Tianjin University); Xiaorui Xu (Tianjin University); Qiang Zhao (Chinese Academy of Sciences)*; Wei Feng (Tianjin University)	
5:00pm—5:12pm	O6-6: 504	Neural Multi-scale Image Compression	Ken Nakanishi (University of Tokyo)*; Shin-ichi Maeda (Preferred Networks, Inc.); Takeru Miyato (Preferred Networks, Inc.); Daisuke Okanohara (Preferred Networks, Inc.)	

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Time	Oral Number	Title	Authors
5:12pm—5:24pm	06-7: 351	Blur Detection via Phase Spectrum	Renyan Zhang (College of Electrical Engineering and Automation, Shandong University of Science and Technology)*

Social Program



Welcome Reception

Date: Monday 3 December 2018
Time: 6.00pm – 8.00pm
Venue: Summer Garden, Perth Convention & Exhibition Centre
Additional Tickets: \$75 per person

The Welcome Reception provides the perfect opportunity for delegates to meet and mingle with fellow colleagues and catch up prior to the commencement of sessions the following day.

iCetana Gala Dinner



Date: Wednesday 5 December 2018
Time: 6.30pm – 10.30pm
Venue: BelleVue Ballroom, Perth Convention & Exhibition Centre
Additional Tickets: \$130 per person

The BelleVue Ballroom will come to life with a night to remember for what will be the social highlight of the 2018 Conference. Guests will enjoy a sumptuous meal complemented by fine wines. A night not to be missed!