

MAIN CONFERENCE

To accommodate a global audience, each oral and poster session consists of two interactive Q&A periods starting twelve hours apart and each lasting two hours. The authors are encouraged to be available online for both Q&A periods for live interaction with the audience. In addition, the oral sessions' schedule below lists the recommended time to watch each pre-recorded oral video (videos will also be available for asynchronous viewing.)

Presentation Schedule

- All times are Pacific Daylight Time (Seattle time).

Date: Tuesday, June 16, 2020 **Q&A Time:** 1000–1200 and 2200–0000

Session: Oral 1.1A – 3D From a Single Image and Shape-From-X (1)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	10:00	22:00	Unsupervised Learning of Probably Symmetric Deformable 3D Objects From Images in the Wild	Shangzhe Wu, Christian Rupprecht, Andrea Vedaldi	7
2	10:05	22:05	Footprints and Free Space From a Single Color Image	Jamie Watson, Michael Firman, Aron Monszpart, Gabriel J. Brostow	2582
3	10:10	22:10	Dynamic Fluid Surface Reconstruction Using Deep Neural Network	Simron Thapa, Nianyi Li, Jinwei Ye	3092
4	10:15	22:15	CvxNet: Learnable Convex Decomposition	Boyang Deng, Kyle Genova, Soroosh Yazdani, Sofien Bouaziz, Geoffrey Hinton, Andrea Tagliasacchi	5908
5	10:20	22:20	BSP-Net: Generating Compact Meshes via Binary Space Partitioning	Zhiqin Chen, Andrea Tagliasacchi, Hao Zhang	789
6	10:25	22:25	Total3DUnderstanding: Joint Layout, Object Pose and Mesh Reconstruction for Indoor Scenes From a Single Image	Yinyu Nie, Xiaoguang Han, Shihui Guo, Yujian Zheng, Jian Chang, Jian Jun Zhang	4498
7	10:30	22:30	Generating and Exploiting Probabilistic Monocular Depth Estimates	Zhihao Xia, Patrick Sullivan, Ayan Chakrabarti	6136
8	10:35	22:35	Neural Cages for Detail-Preserving 3D Deformations	Wang Yifan, Noam Aigerman, Vladimir G. Kim, Siddhartha Chaudhuri, Olga Sorkine-Hornung	6035
9	10:40	22:40	PIFuHD: Multi-Level Pixel-Aligned Implicit Function for High-Resolution 3D Human Digitization	Shunsuke Saito, Tomas Simon, Jason Saragih, Hanbyul Joo	5870
10	10:45	22:45	A Lighting-Invariant Point Processor for Shading	Kathryn Heal, Jialiang Wang, Steven J. Gortler, Todd Zickler	6433
11	10:50	22:50	ActiveMoCap: Optimized Viewpoint Selection for Active Human Motion	Sena Kiciroglu, Helge Rhodin, Sudipta N. Sinha, Mathieu Salzmann, Pascal Fua	9312

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12	10:55	22:55	Peek-a-Boo: Occlusion Reasoning in Indoor Scenes With Plane Representations	Ziyu Jiang, Buyu Liu, Samuel Schulter, Zhangyang Wang, Manmohan Chandraker	5348
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Date: Tuesday, June 16, 2020 **Q&A Time:** 1000–1200 and 2200–0000

Session: Oral 1.1B – Action and Behavior

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
13	10:00	22:00	Multi-Modal Domain Adaptation for Fine-Grained Action Recognition	Jonathan Munro, Dima Damen	6128
14	10:05	22:05	Evolving Losses for Unsupervised Video Representation Learning	AJ Piergiovanni, Anelia Angelova, Michael S. Ryoo	2831
15	10:10	22:10	Disentangling and Unifying Graph Convolutions for Skeleton-Based Action Recognition	Ziyu Liu, Hongwen Zhang, Zhenghao Chen, Zhiyong Wang, Wanli Ouyang	5346
16	10:15	22:15	A Multigrid Method for Efficiently Training Video Models	Chao-Yuan Wu, Ross Girshick, Kaiming He, Christoph Feichtenhofer, Philipp Krähenbühl	1155
17	10:20	22:20	Ego-Topo: Environment Affordances From Egocentric Video	Tushar Nagarajan, Yanghao Li, Christoph Feichtenhofer, Kristen Grauman	2928
18	10:25	22:25	Generative Hybrid Representations for Activity Forecasting With No-Regret Learning	Jiaqi Guan, Ye Yuan, Kris M. Kitani, Nicholas Rhinehart	7531
19	10:30	22:30	Skeleton-Based Action Recognition With Shift Graph Convolutional Network	Ke Cheng, Yifan Zhang, Xiangyu He, Weihan Chen, Jian Cheng, Hanqing Lu	1993
20	10:35	22:35	Predicting Goal-Directed Human Attention Using Inverse Reinforcement Learning	Zhibo Yang, Lihan Huang, Yupei Chen, Zijun Wei, Seoyoung Ahn, Gregory Zelinsky, Dimitris Samaras, Minh Hoai	7339
21	10:40	22:40	X3D: Expanding Architectures for Efficient Video Recognition	Christoph Feichtenhofer	378
22	10:45	22:45	Dynamic Multiscale Graph Neural Networks for 3D Skeleton Based Human Motion Prediction	Maosen Li, Siheng Chen, Yangheng Zhao, Ya Zhang, Yanfeng Wang, Qi Tian	751
23	10:50	22:50	Use the Force, Luke! Learning to Predict Physical Forces by Simulating Effects	Kiana Ehsani, Shubham Tulsiani, Saurabh Gupta, Ali Farhadi, Abhinav Gupta	3095

Date: Tuesday, June 16, 2020 **Q&A Time:** 1000–1200 and 2200–0000

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Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
24	10:00	22:00	DaST: Data-Free Substitute Training for Adversarial Attacks	Mingyi Zhou, Jing Wu, Yipeng Liu, Shuaicheng Liu, Ce Zhu	7938
25	10:05	22:05	Towards Verifying Robustness of Neural Networks Against A Family of Semantic Perturbations	Jeet Mohapatra, Tsui-Wei Weng, Pin-Yu Chen, Sijia Liu, Luca Daniel	9633
26	10:10	22:10	The Secret Revealer: Generative Model-Inversion Attacks Against Deep Neural Networks	Yuheng Zhang, Ruoxi Jia, Hengzhi Pei, Wenxiao Wang, Bo Li, Dawn Song	6102
27	10:15	22:15	A Self-supervised Approach for Adversarial Robustness	Muzammal Naseer, Salman Khan, Munawar Hayat, Fahad Shahbaz Khan, Fatih Porikli	8087
28	10:20	22:20	Adversarial Vertex Mixup: Toward Better Adversarially Robust Generalization	Saehyung Lee, Hyunyu Lee, Sungroh Yoon	7089
29	10:25	22:25	How Does Noise Help Robustness? Explanation and Exploration under the Neural SDE Framework	Xuanqing Liu, Tesi Xiao, Si Si, Qin Cao, Sanjiv Kumar, Cho-Jui Hsieh	10482
30	10:30	22:30	Unpaired Image Super-Resolution Using Pseudo-Supervision	Shunta Maeda	7311
31	10:35	22:35	Universal Litmus Patterns: Revealing Backdoor Attacks in CNNs	Soheil Kolouri, Aniruddha Saha, Hamed Pirsiavash, Heiko Hoffmann	7866
32	10:40	22:40	Robustness Guarantees for Deep Neural Networks on Videos	Min Wu, Marta Kwiatkowska	9636
33	10:45	22:45	Benchmarking Adversarial Robustness on Image Classification	Yinpeng Dong, Qi-An Fu, Xiao Yang, Tianyu Pang, Hang Su, Zihao Xiao, Jun Zhu	5414
34	10:50	22:50	What It Thinks Is Important Is Important: Robustness Transfers Through Input Gradients	Alvin Chan, Yi Tay, Yew-Soon Ong	4226
35	10:55	22:55	Transferable, Controllable, and Inconspicuous Adversarial Attacks on Person Re-identification With Deep Mis-Ranking	Hongjun Wang, Guangrun Wang, Ya Li, Dongyu Zhang, Liang Lin	2062

Date: Tuesday, June 16, 2020 **Q&A Time:** 1000–1200 and 2200–0000

Session: Poster 1.1 – 3D From a Single Image and Shape-From-X; Action and Behavior Recognition; Adversarial Learning

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
36	10:00	22:00	Video Modeling With	Heng Wang, Du Tran,	46

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37	10:00	22:00	Projection & Probability-Driven Black-Box Attack	Jie Li, Rongrong Ji, Hong Liu, Jianzhuang Liu, Bineng Zhong, Cheng Deng, Qi Tian	150
38	10:00	22:00	Auxiliary Training: Towards Accurate and Robust Models	Linfeng Zhang, Muzhou Yu, Tong Chen, Zuoqiang Shi, Chenglong Bao, Kaisheng Ma	558
39	10:00	22:00	PaStaNet: Toward Human Activity Knowledge Engine	Yong-Lu Li, Liang Xu, Xinpeng Liu, Xijie Huang, Yue Xu, Shiyi Wang, Hao-Shu Fang, Ze Ma, Mingyang Chen, Cewu Lu	577
40	10:00	22:00	A Hierarchical Graph Network for 3D Object Detection on Point Clouds	Jintai Chen, Biwen Lei, Qingyu Song, Haochao Ying, Danny Z. Chen, Jian Wu	584
41	10:00	22:00	Learning Generative Models of Shape Handles	Matheus Gadelha, Giorgio Gori, Duygu Ceylan, Radomír Měch, Nathan Carr, Tamy Boubekeur, Rui Wang, Subhransu Maji	890
42	10:00	22:00	One Man's Trash Is Another Man's Treasure: Resisting Adversarial Examples by Adversarial Examples	Chang Xiao, Changxi Zheng	1028
43	10:00	22:00	Toward a Universal Model for Shape From Texture	Dor Verbin, Todd Zickler	1118
44	10:00	22:00	HybridPose: 6D Object Pose Estimation Under Hybrid Representations	Chen Song, Jiaru Song, Qixing Huang	1176
45	10:00	22:00	Boundary-Aware 3D Building Reconstruction From a Single Overhead Image	Jisan Mahmud, True Price, Akash Bapat, Jan-Michael Frahm	1368
46	10:00	22:00	Articulation-Aware Canonical Surface Mapping	Nilesh Kulkarni, Abhinav Gupta, David F. Fouhey, Shubham Tulsiani	1622
47	10:00	22:00	BiFuse: Monocular 360 Depth Estimation via Bi-Projection Fusion	Fu-En Wang, Yu-Hsuan Yeh, Min Sun, Wei-Chen Chiu, Yi-Hsuan Tsai	1690
48	10:00	22:00	Transformation GAN for Unsupervised Image Synthesis and Representation Learning	Jiayu Wang, Wengang Zhou, Guo-Jun Qi, Zhongqian Fu, Qi Tian, Houqiang Li	1753
49	10:00	22:00	PPDM: Parallel Point Detection and Matching for Real-Time Human-Object Interaction Detection	Yue Liao, Si Liu, Fei Wang, Yanjie Chen, Chen Qian, Jiashi Feng	1812
50	10:00	22:00	Height and Uprightness Invariance for 3D Prediction From a Single View	Manel Baradad, Antonio Torralba	1926
51	10:00	22:00	SCT: Set Constrained Temporal Transformer for Set Supervised Action Segmentation	Mohsen Fayyaz, Jürgen Gall	1948
52	10:00	22:00	3DV: 3D Dynamic Voxel for Action Recognition in Depth Video	Yancheng Wang, Yang Xiao, Fu Xiong, Wenxiang Jiang, Zhiqiu Cao, Jiaoyi Tianyi	2075

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53	10:00	22:00	Adaptive Interaction Modeling via Graph Operations Search	Haoxin Li, Wei-Shi Zheng, Yu Tao, Haifeng Hu, Jian-Huang Lai	2261
54	10:00	22:00	Front2Back: Single View 3D Shape Reconstruction via Front to Back Prediction	Yuan Yao, Nico Schertler, Enrique Rosales, Helge Rhodin, Leonid Sigal, Alla Sheffer	2312
55	10:00	22:00	SDC-Depth: Semantic Divide-and-Conquer Network for Monocular Depth Estimation	Lijun Wang, Jianming Zhang, Oliver Wang, Zhe Lin, Huchuan Lu	2651
56	10:00	22:00	Single-View View Synthesis With Multiplane Images	Richard Tucker, Noah Snavely	2709
57	10:00	22:00	Deep Parametric Shape Predictions Using Distance Fields	Dmitriy Smirnov, Matthew Fisher, Vladimir G. Kim, Richard Zhang, Justin Solomon	2724
58	10:00	22:00	Leveraging Photometric Consistency Over Time for Sparsely Supervised Hand-Object Reconstruction	Yana Hasson, Bugra Tekin, Federica Bogo, Ivan Laptev, Marc Pollefeys, Cordelia Schmid	2935
59	10:00	22:00	Ensemble Generative Cleaning With Feedback Loops for Defending Adversarial Attacks	Jianhe Yuan, Zhihai He	4403
60	10:00	22:00	Temporal Pyramid Network for Action Recognition	Ceyuan Yang, Yinghao Xu, Jianping Shi, Bo Dai, Bolei Zhou	4504
61	10:00	22:00	FaceScape: A Large-Scale High Quality 3D Face Dataset and Detailed Riggable 3D Face Prediction	Haotian Yang, Hao Zhu, Yanru Wang, Mingkai Huang, Qiu Shen, Ruigang Yang, Xun Cao	4593
62	10:00	22:00	Structure-Guided Ranking Loss for Single Image Depth Prediction	Ke Xian, Jianming Zhang, Oliver Wang, Long Mai, Zhe Lin, Zhiguo Cao	4645
63	10:00	22:00	In Perfect Shape: Certifiably Optimal 3D Shape Reconstruction From 2D Landmarks	Heng Yang, Luca Carlone	4787
64	10:00	22:00	When NAS Meets Robustness: In Search of Robust Architectures Against Adversarial Attacks	Minghao Guo, Yuzhe Yang, Rui Xu, Ziwei Liu, Dahua Lin	4856
65	10:00	22:00	Towards Transferable Targeted Attack	Maosen Li, Cheng Deng, Tengjiao Li, Junchi Yan, Xinbo Gao, Heng Huang	4937
66	10:00	22:00	Self-Supervised Human Depth Estimation From Monocular Videos	Feitong Tan, Hao Zhu, Zhaopeng Cui, Siyu Zhu, Marc Pollefeys, Ping Tan	4998
67	10:00	22:00	Recursive Social Behavior Graph for Trajectory Prediction	Jianhua Sun, Qinhong Jiang, Cewu Lu	5079
68	10:00	22:00	Context-Aware and Scale-Invariant Temporal	Huaidong Zhang, Xuemiao Yu, Cuizhang Han, Shengfeng	5137

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69	10:00	22:00	OASIS: A Large-Scale Dataset for Single Image 3D in the Wild	Weifeng Chen, Shengyi Qian, David Fan, Noriyuki Kojima, Max Hamilton, Jia Deng	5268
70	10:00	22:00	VPLNet: Deep Single View Normal Estimation With Vanishing Points and Lines	Rui Wang, David Geraghty, Kevin Matzen, Richard Szeliski, Jan-Michael Frahm	5500
71	10:00	22:00	Adversarial Robustness: From Self-Supervised Pre-Training to Fine-Tuning	Tianlong Chen, Sijia Liu, Shiyu Chang, Yu Cheng, Lisa Amini, Zhangyang Wang	5580
72	10:00	22:00	Defending Against Universal Attacks Through Selective Feature Regeneration	Tejas Borkar, Felix Heide, Lina Karam	5625
73	10:00	22:00	Universal Physical Camouflage Attacks on Object Detectors	Lifeng Huang, Chengying Gao, Yuyin Zhou, Cihang Xie, Alan L. Yuille, Changqing Zou, Ning Liu	5646
74	10:00	22:00	Intra- and Inter-Action Understanding via Temporal Action Parsing	Dian Shao, Yue Zhao, Bo Dai, Dahua Lin	5679
75	10:00	22:00	Lightweight Photometric Stereo for Facial Details Recovery	Xueying Wang, Yudong Guo, Bailin Deng, Juyong Zhang	5723
76	10:00	22:00	Bundle Pooling for Polygonal Architecture Segmentation Problem	Huayi Zeng, Kevin Joseph, Adam Vest, Yasutaka Furukawa	5749
77	10:00	22:00	AvatarMe: Realistically Renderable 3D Facial Reconstruction "In-the-Wild"	Alexandros Lattas, Stylianos Moschoglou, Baris Gecer, Stylianos Ploumpis, Vasileios Triantafyllou, Abhijeet Ghosh, Stefanos Zafeiriou	5793
78	10:00	22:00	Defending Against Model Stealing Attacks With Adaptive Misinformation	Sanjay Kariyappa, Moinuddin K. Qureshi	5856
79	10:00	22:00	Learning to Generate 3D Training Data Through Hybrid Gradient	Dawei Yang, Jia Deng	5913
80	10:00	22:00	Cascaded Refinement Network for Point Cloud Completion	Xiaogang Wang, Marcelo H. Ang Jr., Gim Hee Lee	5939
81	10:00	22:00	Enhancing Intrinsic Adversarial Robustness via Feature Pyramid Decoder	Guanlin Li, Shuya Ding, Jun Luo, Chang Liu	5942
82	10:00	22:00	Learning to Discriminate Information for Online Action Detection	Hyunjun Eun, Jinyoung Moon, Jongyoul Park, Chanho Jung, Changick Kim	5950
83	10:00	22:00	Adversarial Examples Improve Image Recognition	Cihang Xie, Mingxing Tan, Boqing Gong, Jiang Wang, Alan L. Yuille, Quoc V. Le	5972
84	10:00	22:00	PQ-NET: A Generative Part Seq2Seq Network for 3D Shapes	Rundi Wu, Yixin Zhuang, Kai Xu, Hao Zhang, Baoquan Chen	5994
85	10:00	22:00	Actor-Transformers for Group Activity Recognition	Kirill Gavrilyuk, Ryan Sanford, Mehrsan Javan.	6143

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86	10:00	22:00	SG-NN: Sparse Generative Neural Networks for Self-Supervised Scene Completion of RGB-D Scans	Angela Dai, Christian Diller, Matthias Nießner	6181
87	10:00	22:00	Geometry-Aware Satellite-to-Ground Image Synthesis for Urban Areas	Xiaohu Lu, Zuoyue Li, Zhaopeng Cui, Martin R. Oswald, Marc Pollefeys, Rongjun Qin	6199
88	10:00	22:00	Action Modifiers: Learning From Adverbs in Instructional Videos	Hazel Doughty, Ivan Laptev, Walterio Mayol-Cuevas, Dima Damen	6204
89	10:00	22:00	ZSTAD: Zero-Shot Temporal Activity Detection	Lingling Zhang, Xiaojun Chang, Jun Liu, Minnan Luo, Sen Wang, Zongyuan Ge, Alexander Hauptmann	6238
90	10:00	22:00	Geometric Structure Based and Regularized Depth Estimation From 360 Indoor Imagery	Lei Jin, Yanyu Xu, Jia Zheng, Junfei Zhang, Rui Tang, Shugong Xu, Jingyi Yu, Shenghua Gao	6239
91	10:00	22:00	Deep Kinematics Analysis for Monocular 3D Human Pose Estimation	Jingwei Xu, Zhenbo Yu, Bingbing Ni, Jiancheng Yang, Xiaokang Yang, Wenjun Zhang	6303
92	10:00	22:00	TEA: Temporal Excitation and Aggregation for Action Recognition	Yan Li, Bin Ji, Xintian Shi, Jianguo Zhang, Bin Kang, Limin Wang	6359
93	10:00	22:00	Oops! Predicting Unintentional Action in Video	Dave Epstein, Boyuan Chen, Carl Vondrick	6398
94	10:00	22:00	Scene Recomposition by Learning-Based ICP	Hamid Izadinia, Steven M. Seitz	6405
95	10:00	22:00	Enhancing Cross-Task Black-Box Transferability of Adversarial Examples With Dispersion Reduction	Yantao Lu, Yunhan Jia, Jianyu Wang, Bai Li, Weiheng Chai, Lawrence Carin, Senem Velipasalar	6435
96	10:00	22:00	Single-Step Adversarial Training With Dropout Scheduling	Vivek B.S., R. Venkatesh Babu	6566
97	10:00	22:00	Deep Non-Line-of-Sight Reconstruction	Javier Grau Chopite, Matthias B. Hullin, Michael Wand, Julian Iseringhausen	6582
98	10:00	22:00	SSRNet: Scalable 3D Surface Reconstruction Network	Zhenxing Mi, Yiming Luo, Wenbing Tao	6606
99	10:00	22:00	Progressive Relation Learning for Group Activity Recognition	Guyue Hu, Bo Cui, Yuan He, Shan Yu	6694
100	10:00	22:00	Cooling-Shrinking Attack: Blinding the Tracker With Imperceptible Noises	Bin Yan, Dong Wang, Huchuan Lu, Xiaoyun Yang	6823
101	10:00	22:00	Adversarial Camouflage: Hiding Physical-World Attacks With Natural Styles	Ranjie Duan, Xingjun Ma, Yisen Wang, James Bailey, A. K. Qin, Yun Yang	6841
102	10:00	22:00	Weakly-Supervised Action Localization by Generative	Baifeng Shi, Qi Dai, Yadong Mu, Jingdong Wang	6924

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103	10:00	22:00	Towards Achieving Adversarial Robustness by Enforcing Feature Consistency Across Bit Planes	Sravanti Addepalli, Vivek B.S., Arya Baburaj, Gaurang Sriramanan, R. Venkatesh Babu	6926
104	10:00	22:00	Polishing Decision-Based Adversarial Noise With a Customized Sampling	Yucheng Shi, Yahong Han, Qi Tian	6956
105	10:00	22:00	Towards Large Yet Imperceptible Adversarial Image Perturbations With Perceptual Color Distance	Zhengyu Zhao, Zhuoran Liu, Martha Larson	6959
106	10:00	22:00	Something-Else: Compositional Action Recognition With Spatial-Temporal Interaction Networks	Joanna Materzynska, Tete Xiao, Roei Herzig, Huijuan Xu, Xiaolong Wang, Trevor Darrell	6980
107	10:00	22:00	Learning Unsupervised Hierarchical Part Decomposition of 3D Objects From a Single RGB Image	Despoina Paschalidou, Luc Van Gool, Andreas Geiger	7006
108	10:00	22:00	Focus on Defocus: Bridging the Synthetic to Real Domain Gap for Depth Estimation	Maxim Maximov, Kevin Galim, Laura Leal-Taixé	7013
109	10:00	22:00	Active Vision for Early Recognition of Human Actions	Boyu Wang, Lihan Huang, Minh Hoai	7016
110	10:00	22:00	SmallBigNet: Integrating Core and Contextual Views for Video Classification	Xianhang Li, Yali Wang, Zhipeng Zhou, Yu Qiao	7204
111	10:00	22:00	Gate-Shift Networks for Video Action Recognition	Swathikiran Sudhakaran, Sergio Escalera, Oswald Lanz	7287
112	10:00	22:00	Semantics-Guided Neural Networks for Efficient Skeleton-Based Human Action Recognition	Pengfei Zhang, Cuiling Lan, Wenjun Zeng, Junliang Xing, Jianru Xue, Nanning Zheng	7303
113	10:00	22:00	Exploiting Joint Robustness to Adversarial Perturbations	Ali Dabouei, Sobhan Soleymani, Fariborz Taherkhani, Jeremy Dawson, Nasser M. Nasrabadi	7373
114	10:00	22:00	From Image Collections to Point Clouds With Self-Supervised Shape and Pose Networks	K L Navaneet, Ansu Mathew, Shashank Kashyap, Wei-Chih Hung, Varun Jampani, R. Venkatesh Babu	7375
115	10:00	22:00	Searching for Actions on the Hyperbole	Teng Long, Pascal Mettes, Heng Tao Shen, Cees G. M. Snoek	7382
116	10:00	22:00	ColorFool: Semantic Adversarial Colorization	Ali Shahin Shamsabadi, Ricardo Sánchez-Matilla, Andrea Cavallaro	7606
117	10:00	22:00	Boosting the Transferability of Adversarial Samples via Attention	Weibin Wu, Yuxin Su, Xixian Chen, Shenglin Zhao, Irwin King, Michael R. Lyu, Yu-Wing -	7683

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118	10:00	22:00	ActionBytes: Learning From Trimmed Videos to Localize Actions	Mihir Jain, Amir Ghodrati, Cees G. M. Snoek	7838
119	10:00	22:00	Efficient Adversarial Training With Transferable Adversarial Examples	Haizhong Zheng, Ziqi Zhang, Juncheng Gu, Honglak Lee, Atul Prakash	8609
120	10:00	22:00	Alleviation of Gradient Exploding in GANs: Fake Can Be Real	Song Tao, Jia Wang	9235
121	10:00	22:00	On Isometry Robustness of Deep 3D Point Cloud Models Under Adversarial Attacks	Yue Zhao, Yuwei Wu, Caihua Chen, Andrew Lim	9387
122	10:00	22:00	Achieving Robustness in the Wild via Adversarial Mixing With Disentangled Representations	Sven Gowal, Chongli Qin, Po-Sen Huang, Taylan Cemgil, Krishnamurthy Dvijotham, Timothy Mann, Pushmeet Kohli	9412
123	10:00	22:00	QEBA: Query-Efficient Boundary-Based Blackbox Attack	Huichen Li, Xiaojun Xu, Xiaolu Zhang, Shuang Yang, Bo Li	9582
124	10:00	22:00	Learning to Simulate Dynamic Environments With GameGAN	Seung Wook Kim, Yuhao Zhou, Jonah Philion, Antonio Torralba, Sanja Fidler	9714
125	10:00	22:00	Learn2Perturb: An End-to-End Feature Perturbation Learning to Improve Adversarial Robustness	Ahmadreza Jeddi, Mohammad Javad Shafiee, Michelle Karg, Christian Scharfenberger, Alexander Wong	9726

Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1200–1400 and 0000–0200

Session: Oral 1.2A – 3D From Multiview and Sensors (1)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	12:00	00:00	SDFDiff: Differentiable Rendering of Signed Distance Fields for 3D Shape Optimization	Yue Jiang, Dantong Ji, Zhizhong Han, Matthias Zwicker	4637
2	12:05	00:05	Through the Looking Glass: Neural 3D Reconstruction of Transparent Shapes	Zhengjin Li, Yu-Ying Yeh, Manmohan Chandraker	4402
3	12:10	00:10	TextureFusion: High-Quality Texture Acquisition for Real-Time RGB-D Scanning	Joo Ho Lee, Hyunho Ha, Yue Dong, Xin Tong, Min H. Kim	2264
4	12:15	00:15	D3VO: Deep Depth, Deep Pose and Deep Uncertainty for Monocular Visual Odometry	Nan Yang, Lukas von Stumberg, Rui Wang, Daniel Cremers	2375

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5	12:20	00:20	Deep Implicit Volume Compression	Danhong Tang, Saurabh Singh, Philip A. Chou, Christian Häne, Mingsong Dou, Sean Fanello, Jonathan Taylor, Philip Davidson, Onur G. Guleryuz, Yinda Zhang, Shahram Izadi, Andrea Tagliasacchi, Sofien Bouaziz, Cem Keskin	1163
6	12:25	00:25	MAGSAC++, a Fast, Reliable and Accurate Robust Estimator	Dániel Baráth, Jana Noskova, Maksym Ivashechkin, Jiří Matas	6311
7	12:30	00:30	OctSqueeze: Octree-Structured Entropy Model for LiDAR Compression	Lila Huang, Shenlong Wang, Kelvin Wong, Jerry Liu, Raquel Urtasun	7440
8	12:35	00:35	4D Association Graph for Realtime Multi-Person Motion Capture Using Multiple Video Cameras	Yuxiang Zhang, Liang An, Tao Yu, Xiu Li, Kun Li, Yebin Liu	5122
9	12:40	00:40	Upgrading Optical Flow to 3D Scene Flow Through Optical Expansion	Gengshan Yang, Deva Ramanan	2227
10	12:45	00:45	Robust 3D Self-Portraits in Seconds	Zhe Li, Tao Yu, Chuanyu Pan, Zerong Zheng, Yebin Liu	6215

Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1200–1400 and 0000–0200

Session: Oral 1.2B – Computational Photography

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
11	12:00	00:00	FastDVDnet: Towards Real-Time Deep Video Denoising Without Flow Estimation	Matias Tassano, Julie Delon, Thomas Veit	9831
12	12:05	00:05	Learning to Have an Ear for Face Super-Resolution	Givi Meishvili, Simon Jenni, Paolo Favaro	9570
13	12:10	00:10	Deep Optics for Single-Shot High-Dynamic-Range Imaging	Christopher A. Metzler, Hayato Ikoma, Yifan Peng, Gordon Wetzstein	2231
14	12:15	00:15	Learning Rank-1 Diffractive Optics for Single-Shot High Dynamic Range Imaging	Qilin Sun, Ethan Tseng, Qiang Fu, Wolfgang Heidrich, Felix Heide	2493
15	12:20	00:20	Deep White-Balance Editing	Mahmoud Afifi, Michael S. Brown	105
16	12:25	00:25	Non-Line-of-Sight Surface Reconstruction Using the Directional Light-Cone Transform	Sean I. Young, David B. Lindell, Bernd Girod, David Taubman, Gordon Wetzstein	93
17	12:30	00:30	Seeing the World in a Bag of Chips	Jeong Joon Park, Aleksander Holynski, Steven M. Seitz	4410
18	12:35	00:35	Correction Filter for Single Image Super-Resolution:	Shady Abu Hussein, Tom Tirer, Raja Giryes	10044

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19	12:40	00:40	Retina-Like Visual Image Reconstruction via Spiking Neural Model	Lin Zhu, Siwei Dong, Jianing Li, Tiejun Huang, Yonghong Tian	2783
20	12:45	00:45	Plug-and-Play Algorithms for Large-Scale Snapshot Compressive Imaging	Xin Yuan, Yang Liu, Jinli Suo, Qionghai Dai	6137

Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1200–1400 and 0000–0200

Session: Oral 1.2C – Efficient Training and Inference

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
21	12:00	00:00	Neural Network Pruning With Residual-Connections and Limited-Data	Jian-Hao Luo, Jianxin Wu	6503
22	12:05	00:05	AdderNet: Do We Really Need Multiplications in Deep Learning?	Hanting Chen, Yunhe Wang, Chunjing Xu, Boxin Shi, Chao Xu, Qi Tian, Chang Xu	432
23	12:10	00:10	NeuralScale: Efficient Scaling of Neurons for Resource-Constrained Deep Neural Networks	Eugene Lee, Chen-Yi Lee	6808
24	12:15	00:15	Training Quantized Neural Networks With a Full-Precision Auxiliary Module	Bohan Zhuang, Lingqiao Liu, Mingkui Tan, Chunhua Shen, Ian Reid	2230
25	12:20	00:20	Neural Networks Are More Productive Teachers Than Human Raters: Active Mixup for Data-Efficient Knowledge Distillation From a Blackbox Model	Dongdong Wang, Yandong Li, Liqiang Wang, Boqing Gong	9667
26	12:25	00:25	Multi-Dimensional Pruning: A Unified Framework for Model Compression	Jinyang Guo, Wanli Ouyang, Dong Xu	5312
27	12:30	00:30	Towards Efficient Model Compression via Learned Global Ranking	Ting-Wu Chin, Ruizhou Ding, Cha Zhang, Diana Marculescu	7876
28	12:35	00:35	HRank: Filter Pruning Using High-Rank Feature Map	Mingbao Lin, Rongrong Ji, Yan Wang, Yichen Zhang, Baochang Zhang, Yonghong Tian, Ling Shao	1029
29	12:40	00:40	DMCP: Differentiable Markov Channel Pruning for Neural Networks	Shaopeng Guo, Yujie Wang, Quanquan Li, Junjie Yan	2473
30	12:45	00:45	ReSprop: Reuse Sparsified Backpropagation	Negar Goli, Tor M. Aamodt	10285

Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1200–1400 and 0000–0200

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Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
31	12:00	00:00	Adversarial Texture Optimization From RGB-D Scans	Jingwei Huang, Justus Thies, Angela Dai, Abhijit Kundu, Chiyu "Max" Jiang, Leonidas J. Guibas, Matthias Nießner, Thomas Funkhouser	3
32	12:00	00:00	Synchronizing Probability Measures on Rotations via Optimal Transport	Tolga Birdal, Michael Arbel, Umut Şimşekli, Leonidas J. Guibas	283
33	12:00	00:00	GhostNet: More Features From Cheap Operations	Kai Han, Yunhe Wang, Qi Tian, Jianyuan Guo, Chunjing Xu, Chang Xu	377
34	12:00	00:00	Attention-Aware Multi-View Stereo	Keyang Luo, Tao Guan, Lili Ju, Yuesong Wang, Zhuo Chen, Yawei Luo	397
35	12:00	00:00	Bi3D: Stereo Depth Estimation via Binary Classifications	Abhishek Badki, Alejandro Troccoli, Kihwan Kim, Jan Kautz, Pradeep Sen, Orazio Gallo	407
36	12:00	00:00	Joint Filtering of Intensity Images and Neuromorphic Events for High-Resolution Noise-Robust Imaging	Zihao W. Wang, Peiqi Duan, Oliver Cossairt, Aggelos Katsaggelos, Tiejun Huang, Boxin Shi	500
37	12:00	00:00	SGAS: Sequential Greedy Architecture Search	Guohao Li, Guocheng Qian, Itzel C. Delgadillo, Matthias Müller, Ali Thabet, Bernard Ghanem	542
38	12:00	00:00	HVNet: Hybrid Voxel Network for LiDAR Based 3D Object Detection	Maosheng Ye, Shuangjie Xu, Tongyi Cao	923
39	12:00	00:00	Frequency Domain Compact 3D Convolutional Neural Networks	Hanting Chen, Yunhe Wang, Han Shu, Yehui Tang, Chunjing Xu, Boxin Shi, Chao Xu, Qi Tian, Chang Xu	935
40	12:00	00:00	Single-Image HDR Reconstruction by Learning to Reverse the Camera Pipeline	Yu-Lun Liu, Wei-Sheng Lai, Yu-Sheng Chen, Yi-Lung Kao, Ming-Hsuan Yang, Yung-Yu Chuang, Jia-Bin Huang	942
41	12:00	00:00	DNU: Deep Non-Local Unrolling for Computational Spectral Imaging	Lizhi Wang, Chen Sun, Maoqing Zhang, Ying Fu, Hua Huang	1010
42	12:00	00:00	Single Image Optical Flow Estimation With an Event Camera	Liyuan Pan, Miaomiao Liu, Richard Hartley	1071
43	12:00	00:00	Multi-View Neural Human Rendering	Minye Wu, Yuehao Wang, Qiang Hu, Jingyi Yu	1094
44	12:00	00:00	Depth Sensing Beyond LiDAR Range	Kai Zhang, Jiaxin Xie, Noah Snavely, Qifeng Chen	1105
45	12:00	00:00	Event Probability Mask (EPM) and Event Denoising Convolutional Neural Network (EDnCNN) for Neuromorphic Cameras	R. Wes Baldwin, Mohammed Almatrafi, Vijayan Asari, Keigo Hirakawa	1156

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46	12:00	00:00	Point-GNN: Graph Neural Network for 3D Object Detection in a Point Cloud	Weijing Shi, Raj Rajkumar	1320
47	12:00	00:00	Self-Learning Video Rain Streak Removal: When Cyclic Consistency Meets Temporal Correspondence	Wenhan Yang, Robby T. Tan, Shiqi Wang, Jiaying Liu	1331
48	12:00	00:00	Neuromorphic Camera Guided High Dynamic Range Imaging	Jin Han, Chu Zhou, Peiqi Duan, Yehui Tang, Chang Xu, Chao Xu, Tiejun Huang, Boxin Shi	1335
49	12:00	00:00	Learning in the Frequency Domain	Kai Xu, Minghai Qin, Fei Sun, Yuhao Wang, Yen-Kuang Chen, Fengbo Ren	1386
50	12:00	00:00	Polarized Reflection Removal With Perfect Alignment in the Wild	Chenyang Lei, Xuhua Huang, Mengdi Zhang, Qiong Yan, Wenxiu Sun, Qifeng Chen	1476
51	12:00	00:00	Learning Multiview 3D Point Cloud Registration	Zan Gojcic, Caifa Zhou, Jan D. Wegner, Leonidas J. Guibas, Tolga Birdal	1558
52	12:00	00:00	A Sparse Resultant Based Method for Efficient Minimal Solvers	Snehal Bhayani, Zuzana Kukelova, Janne Heikkilä	1608
53	12:00	00:00	Zero-Reference Deep Curve Estimation for Low-Light Image Enhancement	Chunle Guo, Chongyi Li, Jichang Guo, Chen Change Loy, Junhui Hou, Sam Kwong, Runmin Cong	1658
54	12:00	00:00	BlendedMVS: A Large-Scale Dataset for Generalized Multi-View Stereo Networks	Yao Yao, Zixin Luo, Shiwei Li, Jingyang Zhang, Yufan Ren, Lei Zhou, Tian Fang, Long Quan	1679
55	12:00	00:00	Convolution in the Cloud: Learning Deformable Kernels in 3D Graph Convolution Networks for Point Cloud Analysis	Zhi-Hao Lin, Sheng-Yu Huang, Yu-Chiang Frank Wang	1685
56	12:00	00:00	A Semi-Supervised Assessor of Neural Architectures	Yehui Tang, Yunhe Wang, Yixing Xu, Hanting Chen, Boxin Shi, Chao Xu, Chunjing Xu, Qi Tian, Chang Xu	1711
57	12:00	00:00	Learning a Reinforced Agent for Flexible Exposure Bracketing Selection	Zhouxia Wang, Jiawei Zhang, Mude Lin, Jiong Wang, Ping Luo, Jimmy Ren	1804
58	12:00	00:00	CARS: Continuous Evolution for Efficient Neural Architecture Search	Zhaohui Yang, Yunhe Wang, Xinghao Chen, Boxin Shi, Chao Xu, Chunjing Xu, Qi Tian, Chang Xu	2057
59	12:00	00:00	Joint 3D Instance Segmentation and Object Detection for Autonomous Driving	Dingfu Zhou, Jin Fang, Xibin Song, Liu Liu, Junbo Yin, Yuchao Dai, Hongdong Li, Ruigang Yang	2101
60	12:00	00:00	View-GCN: View-Based Graph Convolutional Network for 3D Shape	Xin Wei, Ruixuan Yu, Jian Sun	2127

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61	12:00	00:00	Collaborative Distillation for Ultra-Resolution Universal Style Transfer	Huan Wang, Yijun Li, Yuehai Wang, Haoji Hu, Ming-Hsuan Yang	2168
62	12:00	00:00	TomoFluid: Reconstructing Dynamic Fluid From Sparse View Videos	Guangming Zang, Ramzi Idoughi, Congli Wang, Anthony Bennett, Jianguo Du, Scott Skeen, William L. Roberts, Peter Wonka, Wolfgang Heidrich	2228
63	12:00	00:00	Instance Shadow Detection	Tianyu Wang, Xiaowei Hu, Qiong Wang, Pheng-Ann Heng, Chi-Wing Fu	2413
64	12:00	00:00	Self2Self With Dropout: Learning Self-Supervised Denoising From Single Image	Yuhui Quan, Mingqin Chen, Tongyao Pang, Hui Ji	2547
65	12:00	00:00	Discrete Model Compression With Resource Constraint for Deep Neural Networks	Shangqian Gao, Feihu Huang, Jian Pei, Heng Huang	2602
66	12:00	00:00	Structured Compression by Weight Encryption for Unstructured Pruning and Quantization	Se Jung Kwon, Dongsoo Lee, Byeongwook Kim, Parichay Kapoor, Baeseong Park, Gu-Yeon Wei	2609
67	12:00	00:00	End-to-End Learning Local Multi-View Descriptors for 3D Point Clouds	Lei Li, Siyu Zhu, Hongbo Fu, Ping Tan, Chiew-Lan Tai	2633
68	12:00	00:00	Minimal Solutions for Relative Pose With a Single Affine Correspondence	Banglei Guan, Ji Zhao, Zhang Li, Fang Sun, Friedrich Fraundorfer	2778
69	12:00	00:00	Point Cloud Completion by Skip-Attention Network With Hierarchical Folding	Xin Wen, Tianyang Li, Zhizhong Han, Yu-Shen Liu	2847
70	12:00	00:00	Fast-MVSNet: Sparse-to-Dense Multi-View Stereo With Learned Propagation and Gauss-Newton Refinement	Zehao Yu, Shenghua Gao	3072
71	12:00	00:00	AANet: Adaptive Aggregation Network for Efficient Stereo Matching	Haofei Xu, Juyong Zhang	4445
72	12:00	00:00	Towards Unified INT8 Training for Convolutional Neural Network	Feng Zhu, Ruihao Gong, Fengwei Yu, Xianglong Liu, Yanfei Wang, Zhelong Li, Xiuqi Yang, Junjie Yan	4457
73	12:00	00:00	Active 3D Motion Visualization Based on Spatiotemporal Light-Ray Integration	Fumihiko Sakaue, Jun Sato	4485
74	12:00	00:00	Block-Wisely Supervised Neural Architecture Search With Knowledge Distillation	Changlin Li, Jiefeng Peng, Liuchun Yuan, Guangrun Wang, Xiaodan Liang, Liang Lin, Xiaojun Chang	4676
75	12:00	00:00	GreedyNAS: Towards Fast One-Shot NAS With Greedy Supernet	Shan You, Tao Huang, Mingmin Yang, Fei Wang, Chen Qian, Changshui Zhang	4813

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76	12:00	00:00	Learning Filter Pruning Criteria for Deep Convolutional Neural Networks Acceleration	Yang He, Yuhang Ding, Ping Liu, Linchao Zhu, Hanwang Zhang, Yi Yang	4836
77	12:00	00:00	DIST: Rendering Deep Implicit Signed Distance Function With Differentiable Sphere Tracing	Shaohui Liu, Yinda Zhang, Songyou Peng, Boxin Shi, Marc Pollefeys, Zhaopeng Cui	4986
78	12:00	00:00	Visually Imbalanced Stereo Matching	Yicun Liu, Jimmy Ren, Jiawei Zhang, Jianbo Liu, Mude Lin	5058
79	12:00	00:00	Mesh-Guided Multi-View Stereo With Pyramid Architecture	Yuesong Wang, Tao Guan, Zhuo Chen, Yawei Luo, Keyang Luo, Lili Ju	5094
80	12:00	00:00	BiDet: An Efficient Binarized Object Detector	Ziwei Wang, Ziyi Wu, Jiwen Lu, Jie Zhou	5105
81	12:00	00:00	Local Non-Rigid Structure-From-Motion From Diffeomorphic Mappings	Shaifali Parashar, Mathieu Salzmann, Pascal Fua	5168
82	12:00	00:00	Seeing Around Street Corners: Non-Line-of-Sight Detection and Tracking In-the-Wild Using Doppler Radar	Nicolas Scheiner, Florian Kraus, Fangyin Wei, Buu Phan, Fahim Mannan, Nils Appenrodt, Werner Ritter, Jürgen Dickmann, Klaus Dietmayer, Bernhard Sick, Felix Heide	5231
83	12:00	00:00	APQ: Joint Search for Network Architecture, Pruning and Quantization Policy	Tianzhe Wang, Kuan Wang, Han Cai, Ji Lin, Zhijian Liu, Hanrui Wang, Yujun Lin, Song Han	5265
84	12:00	00:00	On the Acceleration of Deep Learning Model Parallelism With Staleness	An Xu, Zhouyuan Huo, Heng Huang	5273
85	12:00	00:00	RevealNet: Seeing Behind Objects in RGB-D Scans	Ji Hou, Angela Dai, Matthias Nießner	5275
86	12:00	00:00	MemNAS: Memory-Efficient Neural Architecture Search With Grow-Trim Learning	Peiye Liu, Bo Wu, Huadong Ma, Mingoo Seok	5306
87	12:00	00:00	StegaStamp: Invisible Hyperlinks in Physical Photographs	Matthew Tancik, Ben Mildenhall, Ren Ng	5569
88	12:00	00:00	L2-GCN: Layer-Wise and Learned Efficient Training of Graph Convolutional Networks	Yuning You, Tianlong Chen, Zhangyang Wang, Yang Shen	5582
89	12:00	00:00	Polarized Non-Line-of-Sight Imaging	Kenichiro Tanaka, Yasuhiro Mukaigawa, Achuta Kadambi	5595
90	12:00	00:00	AdaBits: Neural Network Quantization With Adaptive Bit-Widths	Qing Jin, Linjie Yang, Zhenyu Liao	5611
91	12:00	00:00	Multi-Scale Boosted Dehazing Network With Dense Feature Fusion	Hang Dong, Jinshan Pan, Lei Xiang, Zhe Hu, Xinyi Zhang, Fei Wang, Ming-Hsuan Yang	5622

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92	12:00	00:00	ClusterVO: Clustering Moving Instances and Estimating Visual Odometry for Self and Surroundings	Jiahui Huang, Sheng Yang, Tai-Jiang Mu, Shi-Min Hu	5633
93	12:00	00:00	Automatic Neural Network Compression by Sparsity-Quantization Joint Learning: A Constrained Optimization-Based Approach	Haichuan Yang, Shupeng Gui, Yuhao Zhu, Ji Liu	5642
94	12:00	00:00	Normal Assisted Stereo Depth Estimation	Uday Kusupati, Shuo Cheng, Rui Chen, Hao Su	5655
95	12:00	00:00	Fusing Wearable IMUs With Multi-View Images for Human Pose Estimation: A Geometric Approach	Zhe Zhang, Chunyu Wang, Wenhui Qin, Wenjun Zeng	5755
96	12:00	00:00	gDLS*: Generalized Pose-and-Scale Estimation Given Scale and Gravity Priors	Victor Fragoso, Joseph DeGol, Gang Hua	5830
97	12:00	00:00	Embodied Language Grounding With 3D Visual Feature Representations	Mihir Prabhudesai, Hsiao-Yu Fish Tung, Syed Ashar Javed, Maximilian Sieb, Adam W. Harley, Katerina Fragkiadaki	5879
98	12:00	00:00	Learning to Autofocus	Charles Herrmann, Richard Strong Bowen, Neal Wadhwa, Rahul Garg, Qiurui He, Jonathan T. Barron, Ramin Zabih	5896
99	12:00	00:00	Joint Demosaicing and Denoising With Self Guidance	Lin Liu, Xu Jia, Jianzhuang Liu, Qi Tian	5928
100	12:00	00:00	Forward and Backward Information Retention for Accurate Binary Neural Networks	Haotong Qin, Ruihao Gong, Xianglong Liu, Mingzhu Shen, Ziran Wei, Fengwei Yu, Jingkuan Song	6014
101	12:00	00:00	Light Field Spatial Super-Resolution via Deep Combinatorial Geometry Embedding and Structural Consistency Regularization	Jing Jin, Junhui Hou, Jie Chen, Sam Kwong	6049
102	12:00	00:00	A Multi-Hypothesis Approach to Color Constancy	Daniel Hernandez-Juarez, Sarah Parisot, Benjamin Busam, Aleš Leonardis, Gregory Slabaugh, Steven McDonagh	6066
103	12:00	00:00	Learning to Restore Low-Light Images via Decomposition-and-Enhancement	Ke Xu, Xin Yang, Baocai Yin, Rynson W.H. Lau	6120
104	12:00	00:00	Background Matting: The World Is Your Green Screen	Soumyadip Sengupta, Vivek Jayaram, Brian Curless, Steven M. Seitz, Ira Kemelmacher-Shlizerman	6179
105	12:00	00:00	Supervised Raw Video Denoising With a Benchmark Dataset on Dynamic Scenes	Huanjing Yue, Cong Cao, Lei Liao, Ronghe Chu, Jingyu Yang	6293

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106	12:00	00:00	Photometric Stereo via Discrete Hypothesis-and-Test Search	Kenji Enomoto, Michael Waechter, Kiriakos N. Kutulakos, Yasuyuki Matsushita	6425
107	12:00	00:00	Dynamic Convolutions: Exploiting Spatial Sparsity for Faster Inference	Thomas Verelst, Tinne Tuytelaars	6535
108	12:00	00:00	Fixed-Point Back-Propagation Training	Xishan Zhang, Shaoli Liu, Rui Zhang, Chang Liu, Di Huang, Shiyi Zhou, Jiaming Guo, Qi Guo, Zidong Du, Tian Zhi, Yunji Chen	6751
109	12:00	00:00	Heterogeneous Knowledge Distillation Using Information Flow Modeling	Nikolaos Passalis, Maria Tzelepi, Anastasios Tefas	6967
110	12:00	00:00	Rethinking Differentiable Search for Mixed-Precision Neural Networks	Zhaowei Cai, Nuno Vasconcelos	7045
111	12:00	00:00	Residual Feature Aggregation Network for Image Super-Resolution	Jie Liu, Wenjie Zhang, Yuting Tang, Jie Tang, Gangshan Wu	7202
112	12:00	00:00	Resolution Adaptive Networks for Efficient Inference	Le Yang, Yizeng Han, Xi Chen, Shiji Song, Jifeng Dai, Gao Huang	7331
113	12:00	00:00	Learning to Forget for Meta-Learning	Sungyong Baik, Seokil Hong, Kyoung Mu Lee	7659
114	12:00	00:00	Deep Learning for Handling Kernel/model Uncertainty in Image Deconvolution	Yuesong Nan, Hui Ji	7670
115	12:00	00:00	Reflection Scene Separation From a Single Image	Renjie Wan, Boxin Shi, Haoliang Li, Ling-Yu Duan, Alex C. Kot	9175
116	12:00	00:00	Wavelet Synthesis Net for Disparity Estimation to Synthesize DSLR Calibre Bokeh Effect on Smartphones	Chenchi Luo, Yingmao Li, Kaimo Lin, George Chen, Seok-Jun Lee, Jihwan Choi, Youngjun Francis Yoo, Michael O. Polley	9231
117	12:00	00:00	Bundle Adjustment on a Graph Processor	Joseph Ortiz, Mark Pupilli, Stefan Leutenegger, Andrew J. Davison	9635
118	12:00	00:00	3D-ZeF: A 3D Zebrafish Tracking Benchmark Dataset	Malte Pedersen, Joakim Bruslund Haurum, Stefan Hein Bengtson, Thomas B. Moeslund	9675
119	12:00	00:00	PULSE: Self-Supervised Photo Upsampling via Latent Space Exploration of Generative Models	Sachit Menon, Alexandru Damian, Shijia Hu, Nikhil Ravi, Cynthia Rudin	9879

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120	12:00	00:00	Scalability in Perception for Autonomous Driving: Waymo Open Dataset	Pei Sun, Henrik Kretzschmar, Xerxes Dotiwalla, Aurélien Chouard, Vijaysai Patnaik, Paul Tsui, James Guo, Yin Zhou, Yuning Chai, Benjamin Caine, Vijay Vasudevan, Wei Han, Jiquan Ngiam, Hang Zhao, Aleksei Timofeev, Scott Ettinger, Maxim Krivokon, Amy Gao, Aditya Joshi, Yu Zhang, Jonathon Shlens, Zhifeng Chen, Dragomir Anguelov	9896
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Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1400–1600 and 0200–0400

Session: Oral 1.3A – 3D From a Single Image and Shape-From-X (2); 3D From Multiview and Sensors (2)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	14:00	02:00	Extreme Relative Pose Network Under Hybrid Representations	Zhenpei Yang, Siming Yan, Qixing Huang	178
2	14:05	02:05	Single-Shot Monocular RGB-D Imaging Using Uneven Double Refraction	Andreas Meuleman, Seung-Hwan Baek, Felix Heide, Min H. Kim	2262
3	14:10	02:10	Inverse Rendering for Complex Indoor Scenes: Shape, Spatially-Varying Lighting and SVBRDF From a Single Image	Zhengqin Li, Mohammad Shafiei, Ravi Ramamoorthi, Kalyan Sunkavalli, Manmohan Chandraker	4513
4	14:15	02:15	3D Packing for Self-Supervised Monocular Depth Estimation	Vitor Guizilini, Rareș Ambrus, Sudeep Pillai, Allan Raventos, Adrien Gaidon	5619
5	14:20	02:20	Cascade Cost Volume for High-Resolution Multi-View Stereo and Stereo Matching	Xiaodong Gu, Zhiwen Fan, Siyu Zhu, Zuozhuo Dai, Feitong Tan, Ping Tan	6312
6	14:25	02:25	From Two Rolling Shutters to One Global Shutter	Cenek Albl, Zuzana Kukelova, Viktor Larsson, Michal Polic, Tomas Pajdla, Konrad Schindler	6849
7	14:30	02:30	Deep Global Registration	Christopher Choy, Wei Dong, Vladlen Koltun	826
8	14:35	02:35	Deep Stereo Using Adaptive Thin Volume Representation With Uncertainty Awareness	Shuo Cheng, Zexiang Xu, Shilin Zhu, Zhuwen Li, Li Erran Li, Ravi Ramamoorthi, Hao Su	2543
9	14:40	02:40	Why Having 10,000 Parameters in Your Camera Model Is Better Than Twelve	Thomas Schöps, Viktor Larsson, Marc Pollefeys, Torsten Sattler	412
10	14:45	02:45	Blur Aware Calibration of Multi-Focus Plenoptic Camera	Mathieu Labussière, Céline Teulière, Frédéric Bernardin, Omar Ait-Aider	9392

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11	14:50	02:50	Learning Fused Pixel and Feature-Based View Reconstructions for Light Fields	Jinglei Shi, Xiaoran Jiang, Christine Guillemot	9007
12	14:55	02:55	SAL: Sign Agnostic Learning of Shapes From Raw Data	Matan Atzmon, Yaron Lipman	6824

Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1400–1600 and 0200–0400

Session: Oral 1.3B – Image Retrieval; Datasets and Evaluation

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
13	14:00	02:00	Google Landmarks Dataset v2 – A Large-Scale Benchmark for Instance-Level Recognition and Retrieval	Tobias Weyand, André Araujo, Bingyi Cao, Jack Sim	2716
14	14:05	02:05	Instance Guided Proposal Network for Person Search	Wenkai Dong, Zhaoxiang Zhang, Chunfeng Song, Tieniu Tan	6779
15	14:10	02:10	Which Is Plagiarism: Fashion Image Retrieval Based on Regional Representation for Design Protection	Yining Lang, Yuan He, Fan Yang, Jianfeng Dong, Hui Xue	4891
16	14:15	02:15	Inter-Task Association Critic for Cross-Resolution Person Re-Identification	Zhiyi Cheng, Qi Dong, Shaogang Gong, Xiatian Zhu	1846
17	14:20	02:20	FineGym: A Hierarchical Video Dataset for Fine-Grained Action Understanding	Dian Shao, Yue Zhao, Bo Dai, Dahua Lin	4252
18	14:25	02:25	Mapillary Street-Level Sequences: A Dataset for Lifelong Place Recognition	Frederik Warburg, Søren Hauberg, Manuel López-Antequera, Pau Gargallo, Yubin Kuang, Javier Civera	9217
19	14:30	02:30	BDD100K: A Diverse Driving Dataset for Heterogeneous Multitask Learning	Fisher Yu, Haofeng Chen, Xin Wang, Wenqi Xian, Yingying Chen, Fangchen Liu, Vashisht Madhavan, Trevor Darrell	6723
20	14:35	02:35	Rethinking Computer-Aided Tuberculosis Diagnosis	Yun Liu, Yu-Huan Wu, Yunfeng Ban, Huifang Wang, Ming-Ming Cheng	1547
21	14:40	02:40	IntrA: 3D Intracranial Aneurysm Dataset for Deep Learning	Xi Yang, Ding Xia, Taichi Kin, Takeo Igarashi	7206
22	14:45	02:45	Revisiting Saliency Metrics: Farthest-Neighbor Area Under Curve	Sen Jia, Neil D. B. Bruce	7459
23	14:50	02:50	Computing the Testing Error Without a Testing Set	Ciprian A. Corneanu, Sergio Escalera, Aleix M. Martinez	5560
24	14:55	02:55	Improving Confidence	Zhizhong Li, Derek Hoiem	7765

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Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1400–1600 and 0200–0400

Session: Oral 1.3C – Low-Level and Physics-Based Vision

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
25	14:00	02:00	CycleISP: Real Image Restoration via Improved Data Synthesis	Syed Waqas Zamir, Aditya Arora, Salman Khan, Munawar Hayat, Fahad Shahbaz Khan, Ming-Hsuan Yang, Ling Shao	7308
26	14:05	02:05	Enhanced Blind Face Restoration With Multi-Exemplar Images and Adaptive Spatial Feature Fusion	Xiaoming Li, Wenyu Li, Dongwei Ren, Hongzhi Zhang, Meng Wang, Wangmeng Zuo	4280
27	14:10	02:10	Explorable Super Resolution	Yuval Bahat, Tomer Michaeli	7173
28	14:15	02:15	Syn2Real Transfer Learning for Image Deraining Using Gaussian Processes	Rajeev Yasarla, Vishwanath A. Sindagi, Vishal M. Patel	480
29	14:20	02:20	Deblurring by Realistic Blurring	Kaihao Zhang, Wenhan Luo, Yiran Zhong, Lin Ma, Björn Stenger, Wei Liu, Hongdong Li	4606
30	14:25	02:25	Bringing Old Photos Back to Life	Ziyu Wan, Bo Zhang, Dongdong Chen, Pan Zhang, Dong Chen, Jing Liao, Fang Wen	3033
31	14:30	02:30	A Physics-Based Noise Formation Model for Extreme Low-Light Raw Denoising	Kaixuan Wei, Ying Fu, Jiaolong Yang, Hua Huang	7604
32	14:35	02:35	Learning to Super Resolve Intensity Images From Events	S. Mohammad Mostafavi I., Jonghyun Choi, Kuk-Jin Yoon	1798
33	14:40	02:40	Camouflaged Object Detection	Deng-Ping Fan, Ge-Peng Ji, Guolei Sun, Ming-Ming Cheng, Jianbing Shen, Ling Shao	1052

Date: Tuesday, June 16 & Wednesday, June 17 2020 **Q&A Time:** 1400–1600 and 0200–0400

Session: Poster 1.3 – 3D From a Single Image and Shape-From-X; 3D From Multiview and Sensors; Image Retrieval; Datasets and Evaluation; Low-Level and Physics-Based Vision

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
34	14:00	02:00	Holistically-Attracted Wireframe Parsing	Nan Xue, Tianfu Wu, Song Bai, Fudong Wang, Gui-Song Xia, Liangpei Zhang, Philip H.S. Torr	17

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35	14:00	02:00	Conv-MPN: Convolutional Message Passing Neural Network for Structured Outdoor Architecture Reconstruction	Fuyang Zhang, Nelson Nauata, Yasutaka Furukawa	40
36	14:00	02:00	Domain Adaptation for Image Dehazing	Yuanjie Shao, Lerenhan Li, Wenqi Ren, Changxin Gao, Nong Sang	169
37	14:00	02:00	Auto-Encoding Twin-Bottleneck Hashing	Yuming Shen, Jie Qin, Jiaxin Chen, Mengyang Yu, Li Liu, Fan Zhu, Fumin Shen, Ling Shao	188
38	14:00	02:00	Agriculture-Vision: A Large Aerial Image Database for Agricultural Pattern Analysis	Mang Tik Chiu, Xingqian Xu, Yunchao Wei, Zilong Huang, Alexander G. Schwing, Robert Brunner, Hrant Khachatrian, Hovnatan Karapetyan, Ivan Dozier, Greg Rose, David Wilson, Adrian Tudor, Naira Hovakimyan, Thomas S. Huang, Honghui Shi	346
39	14:00	02:00	Bi-Directional Interaction Network for Person Search	Wenkai Dong, Zhaoxiang Zhang, Chunfeng Song, Tieniu Tan	396
40	14:00	02:00	Meshlet Priors for 3D Mesh Reconstruction	Abhishek Badki, Orazio Gallo, Jan Kautz, Pradeep Sen	408
41	14:00	02:00	Space-Time-Aware Multi-Resolution Video Enhancement	Muhammad Haris, Greg Shakhnarovich, Norimichi Ukita	430
42	14:00	02:00	FSS-1000: A 1000-Class Dataset for Few-Shot Segmentation	Xiang Li, Tianhan Wei, Yau Pun Chen, Yu-Wing Tai, Chi-Keung Tang	575
43	14:00	02:00	MSeg: A Composite Dataset for Multi-Domain Semantic Segmentation	John Lambert, Zhuang Liu, Ozan Sener, James Hays, Vladlen Koltun	608
44	14:00	02:00	DeeperForensics-1.0: A Large-Scale Dataset for Real-World Face Forgery Detection	Liming Jiang, Ren Li, Wayne Wu, Chen Qian, Chen Change Loy	652
45	14:00	02:00	Learning Multi-Granular Hypergraphs for Video-Based Person Re-Identification	Yichao Yan, Jie Qin, Jiaxin Chen, Li Liu, Fan Zhu, Ying Tai, Ling Shao	680
46	14:00	02:00	Online Joint Multi-Metric Adaptation From Frequent Sharing-Subset Mining for Person Re-Identification	Jiahuan Zhou, Bing Su, Ying Wu	702
47	14:00	02:00	Taking a Deeper Look at Co-Salient Object Detection	Deng-Ping Fan, Zheng Lin, Ge-Peng Ji, Dingwen Zhang, Huazhu Fu, Ming-Ming Cheng	708
48	14:00	02:00	Single-Stage 6D Object Pose Estimation	Yinlin Hu, Pascal Fua, Wei Wang, Mathieu Salzmann	725
49	14:00	02:00	OccuSeg: Occupancy-Aware	Lei Han, Tian Zheng, Lan Xu,	727

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50	14:00	02:00	Camera Trace Erasing	Chang Chen, Zhiwei Xiong, Xiaoming Liu, Feng Wu	809
51	14:00	02:00	Deep Metric Learning via Adaptive Learnable Assessment	Wenzhao Zheng, Jiwen Lu, Jie Zhou	916
52	14:00	02:00	Deep Representation Learning on Long-Tailed Data: A Learnable Embedding Augmentation Perspective	Jialun Liu, Yifan Sun, Chuchu Han, Zhaopeng Dou, Wenhui Li	927
53	14:00	02:00	Fantastic Answers and Where to Find Them: Immersive Question-Directed Visual Attention	Ming Jiang, Shi Chen, Jinhui Yang, Qi Zhao	1016
54	14:00	02:00	HUMBI: A Large Multiview Dataset of Human Body Expressions	Zhixuan Yu, Jae Shin Yoon, In Kyu Lee, Prashanth Venkatesh, Jaesik Park, Jihun Yu, Hyun Soo Park	1022
55	14:00	02:00	Image Search With Text Feedback by Visiolinguistic Attention Learning	Yanbei Chen, Shaogang Gong, Loris Bazzani	1086
56	14:00	02:00	Image Processing Using Multi-Code GAN Prior	Jinjin Gu, Yujun Shen, Bolei Zhou	1107
57	14:00	02:00	What Does Plate Glass Reveal About Camera Calibration?	Qian Zheng, Jinnan Chen, Zhan Lu, Boxin Shi, Xudong Jiang, Kim-Hui Yap, Ling-Yu Duan, Alex C. Kot	1131
58	14:00	02:00	Zero-Assignment Constraint for Graph Matching With Outliers	Fudong Wang, Nan Xue, Jin-Gang Yu, Gui-Song Xia	1149
59	14:00	02:00	Cascaded Deep Video Deblurring Using Temporal Sharpness Prior	Jinshan Pan, Haoran Bai, Jinhui Tang	1189
60	14:00	02:00	JLDCF: Joint Learning and Densely-Cooperative Fusion Framework for RGB-D Salient Object Detection	Keren Fu, Deng-Ping Fan, Ge-Peng Ji, Qijun Zhao	1303
61	14:00	02:00	From Fidelity to Perceptual Quality: A Semi-Supervised Approach for Low-Light Image Enhancement	Wenhan Yang, Shiqi Wang, Yuming Fang, Yue Wang, Jiaying Liu	1330
62	14:00	02:00	Unsupervised Adaptation Learning for Hyperspectral Imagery Super-Resolution	Lei Zhang, Jiangtao Nie, Wei Wei, Yanning Zhang, Shengcai Liao, Ling Shao	1351
63	14:00	02:00	Central Similarity Quantization for Efficient Image and Video Retrieval	Li Yuan, Tao Wang, Xiaopeng Zhang, Francis EH Tay, Zequn Jie, Wei Liu, Jiashi Feng	1425
64	14:00	02:00	ARCH: Animatable Reconstruction of Clothed Humans	Zeng Huang, Yuanlu Xu, Christoph Lassner, Hao Li, Tony Tung	1506
65	14:00	02:00	A Model-Driven Deep Neural Network for Single Image Rain Removal	Hong Wang, Qi Xie, Qian Zhao, Deyu Meng	1514

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66	14:00	02:00	Novel Object Viewpoint Estimation Through Reconstruction Alignment	Mohamed El Banani, Jason J. Corso, David F. Fouhey	1620
67	14:00	02:00	Creating Something From Nothing: Unsupervised Knowledge Distillation for Cross-Modal Hashing	Hengtong Hu, Lingxi Xie, Richang Hong, Qi Tian	1730
68	14:00	02:00	Evaluating Weakly Supervised Object Localization Methods Right	Junsuk Choe, Seong Joon Oh, Seungho Lee, Sanghyuk Chun, Zeynep Akata, Hyunjung Shim	1741
69	14:00	02:00	Style Normalization and Restitution for Generalizable Person Re-Identification	Xin Jin, Cuiling Lan, Wenjun Zeng, Zhibo Chen, Li Zhang	1759
70	14:00	02:00	Reconstruct Locally, Localize Globally: A Model Free Method for Object Pose Estimation	Ming Cai, Ian Reid	1779
71	14:00	02:00	RoboTHOR: An Open Simulation-to-Real Embodied AI Platform	Matt Deitke, Winson Han, Alvaro Herrasti, Aniruddha Kembhavi, Eric Kolve, Roozbeh Mottaghi, Jordi Salvador, Dustin Schwenk, Eli VanderBilt, Matthew Wallingford, Luca Weihs, Mark Yatskar, Ali Farhadi	1942
72	14:00	02:00	All in One Bad Weather Removal Using Architectural Search	Ruoteng Li, Robby T. Tan, Loong-Fah Cheong	2002
73	14:00	02:00	Relation-Aware Global Attention for Person Re-Identification	Zhizheng Zhang, Cuiling Lan, Wenjun Zeng, Xin Jin, Zhibo Chen	2149
74	14:00	02:00	HOnnote: A Method for 3D Annotation of Hand and Object Poses	Shreyas Hampali, Mahdi Rad, Markus Oberweger, Vincent Lepetit	2206
75	14:00	02:00	Celeb-DF: A Large-Scale Challenging Dataset for DeepFake Forensics	Yuezun Li, Xin Yang, Pu Sun, Honggang Qi, Siwei Lyu	2280
76	14:00	02:00	Deep Unfolding Network for Image Super-Resolution	Kai Zhang, Luc Van Gool, Radu Timofte	2378
77	14:00	02:00	On the Uncertainty of Self-Supervised Monocular Depth Estimation	Matteo Poggi, Filippo Aleotti, Fabio Tosi, Stefano Mattoccia	2583
78	14:00	02:00	Proxy Anchor Loss for Deep Metric Learning	Sungyeon Kim, Dongwon Kim, Minsu Cho, Suha Kwak	2584
79	14:00	02:00	Unsupervised Learning for Intrinsic Image Decomposition From a Single Image	Yunfei Liu, Yu Li, Shaodi You, Feng Lu	2640
80	14:00	02:00	Multi-Domain Learning for Accurate and Few-Shot Color Constancy	Jin Xiao, Shuhang Gu, Lei Zhang	2803

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81	14:00	02:00	PANDA: A Gigapixel-Level Human-Centric Video Dataset	Xueyang Wang, Xiya Zhang, Yinheng Zhu, Yuchen Guo, Xiaoyun Yuan, Liuyu Xiang, Zerun Wang, Guiguang Ding, David Brady, Qionghai Dai, Lu Fang	2804
82	14:00	02:00	Cross-View Tracking for Multi-Human 3D Pose Estimation at Over 100 FPS	Long Chen, Haizhou Ai, Rui Chen, Zijie Zhuang, Shuang Liu	2817
83	14:00	02:00	Spatial-Temporal Graph Convolutional Network for Video-Based Person Re-Identification	Jinrui Yang, Wei-Shi Zheng, Qize Yang, Ying-Cong Chen, Qi Tian	4237
84	14:00	02:00	Salience-Guided Cascaded Suppression Network for Person Re-Identification	Xuesong Chen, Canmiao Fu, Yong Zhao, Feng Zheng, Jingkuan Song, Rongrong Ji, Yi Yang	4240
85	14:00	02:00	Fashion Outfit Complementary Item Retrieval	Yen-Liang Lin, Son Tran, Larry S. Davis	4296
86	14:00	02:00	Learning Event-Based Motion Deblurring	Zhe Jiang, Yu Zhang, Dongqing Zou, Jimmy Ren, Jiancheng Lv, Yebin Liu	4330
87	14:00	02:00	Domain Decluttering: Simplifying Images to Mitigate Synthetic-Real Domain Shift and Improve Depth Estimation	Yunhan Zhao, Shu Kong, Daeyun Shin, Charless Fowlkes	4343
88	14:00	02:00	Neural Blind Deconvolution Using Deep Priors	Dongwei Ren, Kai Zhang, Qilong Wang, Qinghua Hu, Wangmeng Zuo	4380
89	14:00	02:00	Anisotropic Convolutional Networks for 3D Semantic Scene Completion	Jie Li, Kai Han, Peng Wang, Yu Liu, Xia Yuan	4505
90	14:00	02:00	TDAN: Temporally-Deformable Alignment Network for Video Super-Resolution	Yapeng Tian, Yulun Zhang, Yun Fu, Chenliang Xu	4537
91	14:00	02:00	Zooming Slow-Mo: Fast and Accurate One-Stage Space-Time Video Super-Resolution	Xiaoyu Xiang, Yapeng Tian, Yulun Zhang, Yun Fu, Jan P. Allebach, Chenliang Xu	4539
92	14:00	02:00	Fast MSER	Hailiang Xu, Siqi Xie, Fan Chen	4558
93	14:00	02:00	Unsupervised Person Re-Identification via Softened Similarity Learning	Yutian Lin, Lingxi Xie, Yu Wu, Chenggang Yan, Qi Tian	4598
94	14:00	02:00	COCAS: A Large-Scale Clothes Changing Person Dataset for Re-Identification	Shijie Yu, Shihua Li, Dapeng Chen, Rui Zhao, Junjie Yan, Yu Qiao	4702
95	14:00	02:00	Learning Formation of Physically-Based Face Attributes	Ruilong Li, Karl Bladin, Yajie Zhao, Chinmay Chinara, Owen Ingraham, Pengda Xiang, Xinglei Ren, Pratusha Prasad, Bipin Kishore, Jun .. .	4724

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96	14:00	02:00	Generalized Product Quantization Network for Semi-Supervised Image Retrieval	Young Kyun Jang, Nam Ik Cho	4763
97	14:00	02:00	Stereoscopic Flash and No-Flash Photography for Shape and Albedo Recovery	Xu Cao, Michael Waechter, Boxin Shi, Ye Gao, Bo Zheng, Yasuyuki Matsushita	4814
98	14:00	02:00	Context-Aware Group Captioning via Self-Attention and Contrastive Features	Zhuowan Li, Quan Tran, Long Mai, Zhe Lin, Alan L. Yuille	5035
99	14:00	02:00	MEBOW: Monocular Estimation of Body Orientation in the Wild	Chenyan Wu, Yukun Chen, Jiajia Luo, Che-Chun Su, Anuja Dawane, Bikramjot Hanzra, Zhuo Deng, Bilan Liu, James Z. Wang, Cheng-hao Kuo	5038
100	14:00	02:00	Distilling Image Dehazing With Heterogeneous Task Imitation	Ming Hong, Yuan Xie, Cuihua Li, Yanyun Qu	5127
101	14:00	02:00	Select, Supplement and Focus for RGB-D Saliency Detection	Miao Zhang, Weisong Ren, Yongri Piao, Zhengkun Rong, Huchuan Lu	5177
102	14:00	02:00	Transfer Learning From Synthetic to Real-Noise Denoising With Adaptive Instance Normalization	Yoonsik Kim, Jae Woong Soh, Gu Yong Park, Nam Ik Cho	5181
103	14:00	02:00	On Joint Estimation of Pose, Geometry and svBRDF From a Handheld Scanner	Carolin Schmitt, Simon Donné, Gernot Riegler, Vladlen Koltun, Andreas Geiger	5243
104	14:00	02:00	Differentiable Volumetric Rendering: Learning Implicit 3D Representations Without 3D Supervision	Michael Niemeyer, Lars Mescheder, Michael Oechsle, Andreas Geiger	5290
105	14:00	02:00	Meta-Transfer Learning for Zero-Shot Super-Resolution	Jae Woong Soh, Sunwoo Cho, Nam Ik Cho	5375
106	14:00	02:00	Solving Jigsaw Puzzles With Eroded Boundaries	Dov Bridger, Dov Danon, Ayellet Tal	5479
107	14:00	02:00	Context-Aware Attention Network for Image-Text Retrieval	Qi Zhang, Zhen Lei, Zhaoxiang Zhang, Stan Z. Li	5627
108	14:00	02:00	M-LVC: Multiple Frames Prediction for Learned Video Compression	Jianping Lin, Dong Liu, Houqiang Li, Feng Wu	6094
109	14:00	02:00	Efficient Dynamic Scene Deblurring Using Spatially Variant Deconvolution Network With Optical Flow Guided Training	Yuan Yuan, Wei Su, Dandan Ma	6249
110	14:00	02:00	Single Image Reflection Removal Through Cascaded Refinement	Chao Li, Yixiao Yang, Kun He, Stephen Lin, John E. Hopcroft	6548
111	14:00	02:00	From Patches to Pictures (P ₂ O ₂ -BiO): Mapping the	Zhenqiang Ying, Haoran Niu, Proful Gupta, Dhruv	6584

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112	14:00	02:00	Video to Events: Recycling Video Datasets for Event Cameras	Daniel Gehrig, Mathias Gehrig, Javier Hidalgo-Carrió, Davide Scaramuzza	6997
113	14:00	02:00	Composed Query Image Retrieval Using Locally Bounded Features	Mehrdad Hosseinzadeh, Yang Wang	7107
114	14:00	02:00	Spatially-Attentive Patch-Hierarchical Network for Adaptive Motion Deblurring	Maitreya Suin, Kuldeep Purohit, A. N. Rajagopalan	7376
115	14:00	02:00	End-to-End Illuminant Estimation Based on Deep Metric Learning	Bolei Xu, Jingxin Liu, Xianxu Hou, Bozhi Liu, Guoping Qiu	7485
116	14:00	02:00	Variational-EM-Based Deep Learning for Noise-Blind Image Deblurring	Yuesong Nan, Yuhui Quan, Hui Ji	7635
117	14:00	02:00	Image Demoiréing with Learnable Bandpass Filters	Bolun Zheng, Shanxin Yuan, Gregory Slabaugh, Aleš Leonardis	7673
118	14:00	02:00	Assessing Image Quality Issues for Real-World Problems	Tai-Yin Chiu, Yinan Zhao, Danna Gurari	7812
119	14:00	02:00	Memory-Efficient Hierarchical Neural Architecture Search for Image Denoising	Haokui Zhang, Ying Li, Hao Chen, Chunhua Shen	8582
120	14:00	02:00	Blindly Assess Image Quality in the Wild Guided by a Self-Adaptive Hyper Network	Shaolin Su, Qingsen Yan, Yu Zhu, Cheng Zhang, Xin Ge, Jinqiu Sun, Yanning Zhang	8621
121	14:00	02:00	Perceptual Quality Assessment of Smartphone Photography	Yuming Fang, Hanwei Zhu, Yan Zeng, Kede Ma, Zhou Wang	8843
122	14:00	02:00	Don't Hit Me! Glass Detection in Real-World Scenes	Haiyang Mei, Xin Yang, Yang Wang, Yuanyuan Liu, Shengfeng He, Qiang Zhang, Xiaopeng Wei, Rynson W.H. Lau	9250
123	14:00	02:00	Progressive Mirror Detection	Jiaying Lin, Guodong Wang, Rynson W.H. Lau	9689

Date: Tuesday, June 16, 2020 **Q&A Time:** 1600–1800 and 0400–0600

Session: Oral 1.4A – Scene Analysis and Understanding

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	16:00	04:00	Category-Level Articulated Object Pose Estimation	Xiaolong Li, He Wang, Li Yi, Leonidas J. Guibas, A. Lynn Abbott, Shuran Song	1891
2	16:05	04:05	Unbiased Scene Graph Generation From Biased Training	Kaihua Tang, Yulei Niu, Jianqiang Huang, Jiaxin Shi, Hanwang Zhang	6770
3	16:10	04:10	Dynamic Graph Message	Li Zhang, Dan Xu, Anurag	5

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4	16:15	04:15	Weakly Supervised Visual Semantic Parsing	Alireza Zareian, Svebor Karaman, Shih-Fu Chang	8863
5	16:20	04:20	GPS-Net: Graph Property Sensing Network for Scene Graph Generation	Xin Lin, Changxing Ding, Jinquan Zeng, Dacheng Tao	2169
6	16:25	04:25	End-to-End Optimization of Scene Layout	Andrew Luo, Zhoutong Zhang, Jiajun Wu, Joshua B. Tenenbaum	8495
7	16:30	04:30	Unsupervised Intra-Domain Adaptation for Semantic Segmentation Through Self-Supervision	Fei Pan, Inkyu Shin, Francois Rameau, Seokju Lee, In So Kweon	10193
8	16:35	04:35	Dual Super-Resolution Learning for Semantic Segmentation	Li Wang, Dong Li, Yousong Zhu, Lu Tian, Yi Shan	5617
9	16:40	04:40	Self-Supervised Scene De-Occlusion	Xiaohang Zhan, Xingang Pan, Bo Dai, Ziwei Liu, Dahua Lin, Chen Change Loy	2956
10	16:45	04:45	BANet: Bidirectional Aggregation Network With Occlusion Handling for Panoptic Segmentation	Yifeng Chen, Guangchen Lin, Songyuan Li, Omar Bourahla, Yiming Wu, Fangfang Wang, Junyi Feng, Mingliang Xu, Xi Li	4777

Date: Tuesday, June 16, 2020 **Q&A Time:** 1600–1800 and 0400–0600

Session: Oral 1.4B – Medical, Biological and Cell Microscopy

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
11	16:00	04:00	CPR-GCN: Conditional Partial-Residual Graph Convolutional Network in Automated Anatomical Labeling of Coronary Arteries	Han Yang, Xingjian Zhen, Ying Chi, Lei Zhang, Xian-Sheng Hua	6679
12	16:05	04:05	Cross-View Correspondence Reasoning Based on Bipartite Graph Convolutional Network for Mammogram Mass Detection	Yuhang Liu, Fandong Zhang, Qianyi Zhang, Siwen Wang, Yizhou Wang, Yizhou Yu	182
13	16:10	04:10	MPM: Joint Representation of Motion and Position Map for Cell Tracking	Junya Hayashida, Kazuya Nishimura, Ryoma Bise	8899
14	16:15	04:15	Deep Distance Transform for Tubular Structure Segmentation in CT Scans	Yan Wang, Xu Wei, Fengze Liu, Jieneng Chen, Yuyin Zhou, Wei Shen, Elliot K. Fishman, Alan L. Yuille	2027
15	16:20	04:20	Instance Segmentation of Biological Images Using Harmonic Embeddings	Victor Kulikov, Victor Lempitsky	9579

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16	16:25	04:25	Multi-scale Domain-adversarial Multiple-instance CNN for Cancer Subtype Classification with Unannotated Histopathological Images	Noriaki Hashimoto, Daisuke Fukushima, Ryoichi Koga, Yusuke Takagi, Kaho Ko, Kei Kohno, Masato Nakaguro, Shigeo Nakamura, Hidekata Hontani, Ichiro Takeuchi	10310
17	16:30	04:30	SOS: Selective Objective Switch for Rapid Immunofluorescence Whole Slide Image Classification	Sam Maksoud, Kun Zhao, Peter Hobson, Anthony Jennings, Brian C. Lovell	3001

Date: Tuesday, June 16, 2020 **Q&A Time:** 1600–1800 and 0400–0600

Session: Oral 1.4C – Transfer/Low-Shot/Semi/Unsupervised Learning (1)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
18	16:00	04:00	Task Agnostic Robust Learning on Corrupt Outputs by Correlation-Guided Mixture Density Networks	Sungjoon Choi, Sanghoon Hong, Kyungjae Lee, Sungbin Lim	8452
19	16:05	04:05	METAL: Minimum Effort Temporal Activity Localization in Untrimmed Videos	Da Zhang, Xiyang Dai, Yuan-Fang Wang	1771
20	16:10	04:10	Neural Data Server: A Large-Scale Search Engine for Transfer Learning Data	Xi Yan, David Acuna, Sanja Fidler	8551
21	16:15	04:15	Revisiting Knowledge Distillation via Label Smoothing Regularization	Li Yuan, Francis EH Tay, Guilin Li, Tao Wang, Jiashi Feng	5261
22	16:20	04:20	WCP: Worst-Case Perturbations for Semi-Supervised Deep Learning	Liheng Zhang, Guo-Jun Qi	5880
23	16:25	04:25	DEPARA: Deep Attribution Graph for Deep Knowledge Transferability	Jie Song, Yixin Chen, Jingwen Ye, Xinchao Wang, Chengchao Shen, Feng Mao, Mingli Song	7560
24	16:30	04:30	Conditional Channel Gated Networks for Task-Aware Continual Learning	Davide Abati, Jakub Tomczak, Tijmen Blankevoort, Simone Calderara, Rita Cucchiara, Babak Ehteshami Bejnordi	2376
25	16:35	04:35	Towards Discriminability and Diversity: Batch Nuclear-Norm Maximization Under Label Insufficient Situations	Shuhao Cui, Shuhui Wang, Junbao Zhuo, Liang Li, Qingming Huang, Qi Tian	593

Date: Tuesday, June 16, 2020 **Q&A Time:** 1600–1800 and 0400–0600

Session: Poster 1.4 – Scene Analysis and Understanding; Medical, Biological and Cell Microscopy; Transfer/Low-Shot/Semi/Unsupervised Learning

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
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26	16:00	04:00	FocalMix: Semi-Supervised Learning for 3D Medical Image Detection	Dong Wang, Yuan Zhang, Kexin Zhang, Liwei Wang	173
27	16:00	04:00	Learning 3D Semantic Scene Graphs From 3D Indoor Reconstructions	Johanna Wald, Helisa Dhamo, Nassir Navab, Federico Tombari	267
28	16:00	04:00	Self-Supervised Viewpoint Learning From Image Collections	Siva Karthik Mustikovela, Varun Jampani, Shalini De Mello, Sifei Liu, Umar Iqbal, Carsten Rother, Jan Kautz	322
29	16:00	04:00	Two-Shot Spatially-Varying BRDF and Shape Estimation	Mark Boss, Varun Jampani, Kihwan Kim, Hendrik P.A. Lensch, Jan Kautz	457
30	16:00	04:00	Variational Context-Deformable ConvNets for Indoor Scene Parsing	Zhitong Xiong, Yuan Yuan, Nianhui Guo, Qi Wang	753
31	16:00	04:00	Strip Pooling: Rethinking Spatial Pooling for Scene Parsing	Qibin Hou, Li Zhang, Ming-Ming Cheng, Jiashi Feng	759
32	16:00	04:00	Few-Shot Object Detection With Attention-RPN and Multi-Relation Detector	Qi Fan, Wei Zhuo, Chi-Keung Tang, Yu-Wing Tai	928
33	16:00	04:00	What Can Be Transferred: Unsupervised Domain Adaptation for Endoscopic Lesions Segmentation	Jiahua Dong, Yang Cong, Gan Sun, Bineng Zhong, Xiaowei Xu	966
34	16:00	04:00	ADINet: Attribute Driven Incremental Network for Retinal Image Classification	Qier Meng, Satoh Shin'ichi	978
35	16:00	04:00	Unsupervised Domain Adaptation With Hierarchical Gradient Synchronization	Lanqing Hu, Meina Kan, Shiguang Shan, Xilin Chen	1019
36	16:00	04:00	Deep Grouping Model for Unified Perceptual Parsing	Zhiheng Li, Wenzuan Bao, Jiayang Zheng, Chenliang Xu	1027
37	16:00	04:00	Where Am I Looking At? Joint Location and Orientation Estimation by Cross-View Matching	Yujiao Shi, Xin Yu, Dylan Campbell, Hongdong Li	1032
38	16:00	04:00	Gum-Net: Unsupervised Geometric Matching for Fast and Accurate 3D Subtomogram Image Alignment and Averaging	Xiangrui Zeng, Min Xu	1114
39	16:00	04:00	FDA: Fourier Domain Adaptation for Semantic Segmentation	Yanchao Yang, Stefano Soatto	1221
40	16:00	04:00	Foreground-Aware Relation Network for Geospatial Object Segmentation in High Spatial Resolution Remote Sensing Imagery	Zhuo Zheng, Yanfei Zhong, Junjue Wang, Ailong Ma	1326
41	16:00	04:00	When2com: Multi-Agent Perception via Communication Graph	Yen-Cheng Liu, Junjiao Tian, Nathaniel Glaser, Zsolt Kira	1359

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42	16:00	04:00	Learning Human-Object Interaction Detection Using Interaction Points	Tiancai Wang, Tong Yang, Martin Danelljan, Fahad Shahbaz Khan, Xiangyu Zhang, Jian Sun	1689
43	16:00	04:00	C2FNAS: Coarse-to-Fine Neural Architecture Search for 3D Medical Image Segmentation	Qihang Yu, Dong Yang, Holger Roth, Yutong Bai, Yixiao Zhang, Alan L. Yuille, Daguang Xu	1765
44	16:00	04:00	Adaptive Subspaces for Few-Shot Learning	Christian Simon, Piotr Koniusz, Richard Nock, Mehrtash Harandi	1778
45	16:00	04:00	Learning to Detect Important People in Unlabelled Images for Semi-Supervised Important People Detection	Fa-Ting Hong, Wei-Hong Li, Wei-Shi Zheng	1842
46	16:00	04:00	Stochastic Sparse Subspace Clustering	Ying Chen, Chun-Guang Li, Chong You	1850
47	16:00	04:00	CRNet: Cross-Reference Networks for Few-Shot Segmentation	Weide Liu, Chi Zhang, Guosheng Lin, Fayao Liu	1916
48	16:00	04:00	Shoestring: Graph-Based Semi-Supervised Classification With Severely Limited Labeled Data	Wanyu Lin, Zhaolin Gao, Baochun Li	2055
49	16:00	04:00	Uninformed Students: Student-Teacher Anomaly Detection With Discriminative Latent Embeddings	Paul Bergmann, Michael Fauser, David Sattlegger, Carsten Steger	2136
50	16:00	04:00	3D Sketch-Aware Semantic Scene Completion via Semi-Supervised Structure Prior	Xiaokang Chen, Kwan-Yee Lin, Chen Qian, Gang Zeng, Hongsheng Li	2245
51	16:00	04:00	Graph-Guided Architecture Search for Real-Time Semantic Segmentation	Peiwen Lin, Peng Sun, Guangliang Cheng, Sirui Xie, Xi Li, Jianping Shi	2352
52	16:00	04:00	Composing Good Shots by Exploiting Mutual Relations	Debang Li, Junge Zhang, Kaiqi Huang, Ming-Hsuan Yang	2379
53	16:00	04:00	Organ at Risk Segmentation for Head and Neck Cancer Using Stratified Learning and Neural Architecture Search	Dazhou Guo, Dakai Jin, Zhuotun Zhu, Tsung-Ying Ho, Adam P. Harrison, Chun-Hung Chao, Jing Xiao, Le Lu	2384
54	16:00	04:00	G2L-Net: Global to Local Network for Real-Time 6D Pose Estimation With Embedding Vector Features	Wei Chen, Xi Jia, Hyung Jin Chang, Jinming Duan, Aleš Leonardis	3140
55	16:00	04:00	Unsupervised Instance Segmentation in Microscopy Images via Panoptic Domain Adaptation and Task Re-Weighting	Dongnan Liu, Donghao Zhang, Yang Song, Fan Zhang, Lauren O'Donnell, Heng Huang, Mei Chen, Weidong Cai	3142
56	16:00	04:00	Single-Stage Semantic Segmentation From Image Labels	Nikita Araslanov, Stefan Roth	3185

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57	16:00	04:00	Cascaded Human-Object Interaction Recognition	Tianfei Zhou, Wenguan Wang, Siyuan Qi, Haibin Ling, Jianbing Shen	4277
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59	16:00	04:00	Learning Integral Objects With Intra-Class Discriminator for Weakly-Supervised Semantic Segmentation	Junsong Fan, Zhaoxiang Zhang, Chunfeng Song, Tieniu Tan	4326
60	16:00	04:00	FPConv: Learning Local Flattening for Point Convolution	Yiqun Lin, Zizheng Yan, Haibin Huang, Dong Du, Ligang Liu, Shuguang Cui, Xiaoguang Han	4519
61	16:00	04:00	Rotation Equivariant Graph Convolutional Network for Spherical Image Classification	Qin Yang, Chenglin Li, Wenrui Dai, Junni Zou, Guo-Jun Qi, Hongkai Xiong	4587
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63	16:00	04:00	ScrabbleGAN: Semi-Supervised Varying Length Handwritten Text Generation	Sharon Fogel, Hadar Averbuch-Elor, Sarel Cohen, Shai Mazor, Roee Litman	4824
64	16:00	04:00	Cross-Domain Semantic Segmentation via Domain-Invariant Interactive Relation Transfer	Fengmao Lv, Tao Liang, Xiang Chen, Guosheng Lin	4847
65	16:00	04:00	Inflated Episodic Memory With Region Self-Attention for Long-Tailed Visual Recognition	Linchao Zhu, Yi Yang	4848
66	16:00	04:00	Multimodal Future Localization and Emergence Prediction for Objects in Egocentric View With a Reachability Prior	Osama Makansi, Özgün Çiçek, Kevin Buchicchio, Thomas Brox	4909
67	16:00	04:00	Structure Preserving Generative Cross-Domain Learning	Haifeng Xia, Zhengming Ding	4964
68	16:00	04:00	Reverse Perspective Network for Perspective-Aware Object Counting	Yifan Yang, Guorong Li, Zhe Wu, Li Su, Qingming Huang, Nicu Sebe	5393
69	16:00	04:00	Multi-Path Region Mining for Weakly Supervised 3D Semantic Segmentation on Point Clouds	Jiacheng Wei, Guosheng Lin, Kim-Hui Yap, Tzu-Yi Hung, Lihua Xie	5495
70	16:00	04:00	Reliable Weighted Optimal Transport for Unsupervised Domain Adaptation	Renjun Xu, Pelen Liu, Liyan Wang, Chao Chen, Jindong Wang	5507
71	16:00	04:00	ImVoteNet: Boosting 3D Object Detection	Charles R. Qi, Xinlei Chen, Or Litany, Mingchao Mao	5567

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74	16:00	04:00	Perspective Plane Program Induction From a Single Image	Yikai Li, Jiayuan Mao, Xiuming Zhang, William T. Freeman, Joshua B. Tenenbaum, Jiajun Wu	5738
75	16:00	04:00	DeepFLASH: An Efficient Network for Learning-Based Medical Image Registration	Jian Wang, Miao Zhao	6110
76	16:00	04:00	Semi-Supervised Learning for Few-Shot Image-to-Image Translation	Yaxing Wang, Salman Khan, Abel Gonzalez-Garcia, Joost van de Weijer, Fahad Shahbaz Khan	6291
77	16:00	04:00	Semantic Correspondence as an Optimal Transport Problem	Yanbin Liu, Linchao Zhu, Makoto Yamada, Yi Yang	6320
78	16:00	04:00	How Much Time Do You Have? Modeling Multi-Duration Saliency	Camilo Fosco, Anelise Newman, Pat Sukhum, Yun Bin Zhang, Nanxuan Zhao, Aude Oliva, Zoya Bylinskii	6334
79	16:00	04:00	Fine-Grained Generalized Zero-Shot Learning via Dense Attribute-Based Attention	Dat Huynh, Ehsan Elhamifar	6367
80	16:00	04:00	Online Depth Learning Against Forgetting in Monocular Videos	Zhenyu Zhang, Stéphane Lathuilière, Elisa Ricci, Nicu Sebe, Yan Yan, Jian Yang	6389
81	16:00	04:00	Few-Shot Learning of Part-Specific Probability Space for 3D Shape Segmentation	Lingjing Wang, Xiang Li, Yi Fang	6454
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83	16:00	04:00	Training Noise-Robust Deep Neural Networks via Meta-Learning	Zhen Wang, Guosheng Hu, Qinghua Hu	6509
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85	16:00	04:00	Universal Source-Free Domain Adaptation	Jogendra Nath Kundu, Naveen Venkat, Rahul M V, R. Venkatesh Babu	6644
86	16:00	04:00	Exploring Spatial-Temporal Multi-Frequency Analysis for High-Fidelity and Temporal-Consistency Video Prediction	Beibei Jin, Yu Hu, Qiankun Tang, Jingyu Niu, Zhiping Shi, Yinhe Han, Xiaowei Li	6645

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90	16:00	04:00	Adaptive Dilated Network With Self-Correction Supervision for Counting	Shuai Bai, Zhiqun He, Yu Qiao, Hanzhe Hu, Wei Wu, Junjie Yan	7225
91	16:00	04:00	PointPainting: Sequential Fusion for 3D Object Detection	Sourabh Vora, Alex H. Lang, Bassam Helou, Oscar Beijbom	7258
92	16:00	04:00	Rethinking Zero-Shot Video Classification: End-to-End Training for Realistic Applications	Biagio Brattoli, Joseph Tighe, Fedor Zhdanov, Pietro Perona, Krzysztof Chalupka	7378
93	16:00	04:00	Learning to Select Base Classes for Few-Shot Classification	Linjun Zhou, Peng Cui, Xu Jia, Shiqiang Yang, Qi Tian	7550
94	16:00	04:00	CONSAC: Robust Multi-Model Fitting by Conditional Sample Consensus	Florian Kluger, Eric Brachmann, Hanno Ackermann, Carsten Rother, Michael Ying Yang, Bodo Rosenhahn	7648
95	16:00	04:00	Fast Symmetric Diffeomorphic Image Registration with Convolutional Neural Networks	Tony C.W. Mok, Albert C.S. Chung	7726
96	16:00	04:00	Distilled Semantics for Comprehensive Scene Understanding from Videos	Fabio Tosi, Filippo Aleotti, Pierluigi Zama Ramirez, Matteo Poggi, Samuele Salti, Luigi Di Stefano, Stefano Mattoccia	7782
97	16:00	04:00	Modeling Biological Immunity to Adversarial Examples	Edward Kim, Jocelyn Rego, Yijing Watkins, Garrett T. Kenyon	7828
98	16:00	04:00	DOA-GAN: Dual-Order Attentive Generative Adversarial Network for Image Copy-Move Forgery Detection and Localization	Ashraful Islam, Chengjiang Long, Arslan Basharat, Anthony Hoogs	7883
99	16:00	04:00	Correspondence-Free Material Reconstruction using Sparse Surface Constraints	Sebastian Weiss, Robert Maier, Daniel Cremers, Rüdiger Westermann, Nils Thuerey	8161
100	16:00	04:00	Augmenting Colonoscopy Using Extended and Directional CycleGAN for Lossy Image Translation	Shawn Mathew, Saad Nadeem, Sruti Kumari, Arie Kaufman	8251

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101	16:00	04:00	Attention Scaling for Crowd Counting	Xiaoheng Jiang, Li Zhang, Mingliang Xu, Tianzhu Zhang, Pei Lv, Bing Zhou, Xin Yang, Yanwei Pang	8358
102	16:00	04:00	Shape Reconstruction by Learning Differentiable Surface Representations	Jan Bednářík, Shaifali Parashar, Erhan Gündoğdu, Mathieu Salzmann, Pascal Fua	8458
103	16:00	04:00	A Spatiotemporal Volumetric Interpolation Network for 4D Dynamic Medical Image	Yuyu Guo, Lei Bi, Euijoon Ahn, Dagan Feng, Qian Wang, Jinman Kim	8586
104	16:00	04:00	Attention-Based Context Aware Reasoning for Situation Recognition	Thilini Cooray, Ngai-Man Cheung, Wei Lu	8809
105	16:00	04:00	PatchVAE: Learning Local Latent Codes for Recognition	Kamal Gupta, Saurabh Singh, Abhinav Shrivastava	8893
106	16:00	04:00	Self-Supervised Monocular Trained Depth Estimation Using Self-Attention and Discrete Disparity Volume	Adrian Johnston, Gustavo Carneiro	9078
107	16:00	04:00	STAViS: Spatio-Temporal AudioVisual Saliency Network	Antigoni Tsiami, Petros Koutras, Petros Maragos	9112
108	16:00	04:00	More Grounded Image Captioning by Distilling Image-Text Matching Model	Yuanen Zhou, Meng Wang, Daqing Liu, Zhenzhen Hu, Hanwang Zhang	9267
109	16:00	04:00	DUNIT: Detection-Based Unsupervised Image-to-Image Translation	Deblina Bhattacharjee, Seungryong Kim, Guillaume Vizier, Mathieu Salzmann	9318
110	16:00	04:00	Learning to Observe: Approximating Human Perceptual Thresholds for Detection of Suprathreshold Image Transformations	Alan Dolhasz, Carlo Harvey, Ian Williams	9479
111	16:00	04:00	Show, Edit and Tell: A Framework for Editing Image Captions	Fawaz Sammani, Luke Melas-Kyriazi	9483
112	16:00	04:00	Structure Boundary Preserving Segmentation for Medical Image With Ambiguous Boundary	Hong Joo Lee, Jung Uk Kim, Sangmin Lee, Hak Gu Kim, Yong Man Ro	9573
113	16:00	04:00	Predicting Cognitive Declines Using Longitudinally Enriched Representations for Imaging Biomarkers	Lyujian Lu, Hua Wang, Saad Elbeleidy, Feiping Nie	9670
114	16:00	04:00	Predicting Lymph Node Metastasis Using Histopathological Images Based on Multiple Instance Learning With Deep Graph Convolution	Yu Zhao, Fan Yang, Yuqi Fang, Hailing Liu, Niyun Zhou, Jun Zhang, Jiarui Sun, Sen Yang, Bjoern Menze, Xinjuan Fan, Jianhua Yao	9715
115	16:00	04:00	Extremely Dense Point Correspondences Using a Learned Feature Descriptor	Xingtong Liu, Yiping Zheng, Benjamin Killeen, Masaru Ishii, Gregory D. Hager, Daniel Cremers	9754

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Date: Wednesday, June 17, 2020 **Q&A Time:** 1000–1200 and 2200–0000

Session: Oral 2.1A – 3D From Multiview and Sensors (3)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	10:00	22:00	Local Deep Implicit Functions for 3D Shape	Kyle Genova, Forrester Cole, Avneesh Sud, Aaron Sarna, Thomas Funkhouser	7472
2	10:05	22:05	PointGroup: Dual-Set Point Grouping for 3D Instance Segmentation	Li Jiang, Hengshuang Zhao, Shaoshuai Shi, Shu Liu, Chi-Wing Fu, Jiaya Jia	2784
3	10:10	22:10	Cost Volume Pyramid Based Depth Inference for Multi-View Stereo	Jiayu Yang, Wei Mao, Jose M. Alvarez, Miaomiao Liu	4801
4	10:15	22:15	RoutedFusion: Learning Real-Time Depth Map Fusion	Silvan Weder, Johannes Schönberger, Marc Pollefeys, Martin R. Oswald	5862
5	10:20	22:20	VOLDOR: Visual Odometry From Log-Logistic Dense Optical Flow Residuals	Zhixiang Min, Yiding Yang, Enrique Dunn	5888
6	10:25	22:25	Learning to Optimize Non-Rigid Tracking	Yang Li, Aljaž Božič, Tianwei Zhang, Yanli Ji, Tatsuya Harada, Matthias Nießner	4442
7	10:30	22:30	KFNet: Learning Temporal Camera Relocalization Using Kalman Filtering	Lei Zhou, Zixin Luo, Tianwei Shen, Jiahui Zhang, Mingmin Zhen, Yao Yao, Tian Fang, Long Quan	5302
8	10:35	22:35	Information-Driven Direct RGB-D Odometry	Alejandro Fontán, Javier Civera, Rudolph Triebel	9778
9	10:40	22:40	SuperGlue: Learning Feature Matching With Graph Neural Networks	Paul-Edouard Sarlin, Daniel DeTone, Tomasz Malisiewicz, Andrew Rabinovich	7621
10	10:45	22:45	Reinforced Feature Points: Optimizing Feature Detection and Description for a High-Level Task	Aritra Bhowmik, Stefan Gumhold, Carsten Rother, Eric Brachmann	7645

Date: Wednesday, June 17, 2020 **Q&A Time:** 1000–1200 and 2200–0000

Session: Oral 2.1B – Face, Gesture, and Body Pose (1)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
11	10:00	22:00	ReDA:Reinforced Differentiable Attribute for 3D Face Reconstruction	Wenbin Zhu, HsiangTao Wu, Zeyu Chen, Noranart Vesdapunt, Baoyuan Wang	4388
12	10:05	22:05	EventCap: Monocular 3D Capture of High-Speed Human Motions Using an Event Camera	Lan Xu, Weipeng Xu, Vladislav Golyanik, Marc Habermann, Lu Fang, Christian Theobalt	1573
13	10:10	22:10	Cross-Modal Deep Face	Victoria Fernández Abrevaya,	1542

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14	10:15	22:15	Weakly-Supervised Mesh-Convolutional Hand Reconstruction in the Wild	Dominik Kulon, Riza Alp Güler, Iasonas Kokkinos, Michael M. Bronstein, Stefanos Zafeiriou	9109
15	10:20	22:20	Face X-Ray for More General Face Forgery Detection	Lingzhi Li, Jianmin Bao, Ting Zhang, Hao Yang, Dong Chen, Fang Wen, Baining Guo	931
16	10:25	22:25	A Morphable Face Albedo Model	William A. P. Smith, Alassane Seck, Hannah Dee, Bernard Tiddeman, Joshua B. Tenenbaum, Bernhard Egger	4262
17	10:30	22:30	Cascade EF-GAN: Progressive Facial Expression Editing With Local Focuses	Rongliang Wu, Gongjie Zhang, Shijian Lu, Tao Chen	2637
18	10:35	22:35	GanHand: Predicting Human Grasp Affordances in Multi-Object Scenes	Enric Corona, Albert Pumarola, Guillem Alenyà, Francesc Moreno-Noguer, Grégory Rogez	5764
19	10:40	22:40	Deep Spatial Gradient and Temporal Depth Learning for Face Anti-Spoofing	Zezheng Wang, Zitong Yu, Chenxu Zhao, Xiangyu Zhu, Yunxiao Qin, Qiusheng Zhou, Feng Zhou, Zhen Lei	2053
20	10:45	22:45	DeepCap: Monocular Human Performance Capture Using Weak Supervision	Marc Habermann, Weipeng Xu, Michael Zollhöfer, Gerard Pons-Moll, Christian Theobalt	3141
21	10:50	22:50	Attention Mechanism Exploits Temporal Contexts: Real-Time 3D Human Pose Reconstruction	Ruixu Liu, Ju Shen, He Wang, Chen Chen, Sen-ching Cheung, Vijayan Asari	6399
22	10:55	22:55	Advancing High Fidelity Identity Swapping for Forgery Detection	Lingzhi Li, Jianmin Bao, Hao Yang, Dong Chen, Fang Wen	763

Date: Wednesday, June 17, 2020 **Q&A Time:** 1000–1200 and 2200–0000

Session: Oral 2.1C – Image and Video Synthesis (1)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
23	10:00	22:00	Controllable Person Image Synthesis With Attribute-Decomposed GAN	Yifang Men, Yiming Mao, Yuning Jiang, Wei-Ying Ma, Zhouhui Lian	6886
24	10:05	22:05	Attentive Normalization for Conditional Image Generation	Yi Wang, Ying-Cong Chen, Xiangyu Zhang, Jian Sun, Jiaya Jia	213
25	10:10	22:10	SEAN: Image Synthesis With Semantic Region-Adaptive Normalization	Peihao Zhu, Rameen Abdal, Yipeng Qin, Peter Wonka	7356
26	10:15	22:15	Blurry Video Frame Interpolation	Wang Shen, Wenbo Bao, Guangtao Zhai, Li Chen, Xiongkuo Min, Zhiyong Gao	655

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27	10:20	22:20	Learning Physics-Guided Face Relighting Under Directional Light	Thomas Nestmeyer, Jean-François Lalonde, Iain Matthews, Andreas Lehrmann	6356
28	10:25	22:25	Disentangled Image Generation Through Structured Noise Injection	Yazeed Alharbi, Peter Wonka	1141
29	10:30	22:30	Cross-Domain Correspondence Learning for Exemplar-Based Image Translation	Pan Zhang, Bo Zhang, Dong Chen, Lu Yuan, Fang Wen	3032
30	10:35	22:35	Disentangled and Controllable Face Image Generation via 3D Imitative-Contrastive Learning	Yu Deng, Jiaolong Yang, Dong Chen, Fang Wen, Xin Tong	564
31	10:40	22:40	Single Image Reflection Removal With Physically-Based Training Images	Soomin Kim, Yuchi Huo, Sung-Eui Yoon	5091
32	10:45	22:45	SketchyCOCO: Image Generation From Freehand Scene Sketches	Chengying Gao, Qi Liu, Qi Xu, Limin Wang, Jianzhuang Liu, Changqing Zou	4318
33	10:50	22:50	Image Based Virtual Try-On Network From Unpaired Data	Assaf Neuberger, Eran Borenstein, Bar Hilleli, Eduard Oks, Sharon Alpert	8432
34	10:55	22:55	PSGAN: Pose and Expression Robust Spatial-Aware GAN for Customizable Makeup Transfer	Wentao Jiang, Si Liu, Chen Gao, Jie Cao, Ran He, Jiashi Feng, Shuicheng Yan	6680

Date: Wednesday, June 17, 2020 **Q&A Time:** 1000–1200 and 2200–0000

Session: Poster 2.1 – 3D From Multiview and Sensors; Face, Gesture, and Body Pose; Image and Video Synthesis

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35	10:00	22:00	RetinaFace: Single-Shot Multi-Level Face Localisation in the Wild	Jiankang Deng, Jia Guo, Evangelos Ververas, Irene Kotsia, Stefanos Zafeiriou	251
36	10:00	22:00	Semantic Image Manipulation Using Scene Graphs	Helisa Dhamo, Azade Farshad, Iro Laina, Nassir Navab, Gregory D. Hager, Federico Tombari, Christian Rupprecht	268
37	10:00	22:00	A Stochastic Conditioning Scheme for Diverse Human Motion Prediction	Sadegh Aliakbarian, Fatemeh Sadat Saleh, Mathieu Salzmann, Lars Petersson, Stephen Gould	324
38	10:00	22:00	Transferring Dense Pose to Proximal Animal Classes	Artsiom Sanakoyeu, Vasil Khalidov, Maureen S. McCarthy, Andrea Vedaldi, Natalia Neverova	400
39	10:00	22:00	Weakly-Supervised 3D Human Pose Learning via	Umar Iqbal, Pavlo Molchanov, Jan Kautz	413

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40	10:00	22:00	VIBE: Video Inference for Human Body Pose and Shape Estimation	Muhammed Kocabas, Nikos Athanasiou, Michael J. Black	461
41	10:00	22:00	G3AN: Disentangling Appearance and Motion for Video Generation	Yaohui Wang, Piotr Bilinski, Francois Bremond, Antitza Dantcheva	498
42	10:00	22:00	Domain Adaptive Image-to-Image Translation	Ying-Cong Chen, Xiaogang Xu, Jiaya Jia	519
43	10:00	22:00	GAN Compression: Efficient Architectures for Interactive Conditional GANs	Muyang Li, Ji Lin, Yaoyao Ding, Zhijian Liu, Jun-Yan Zhu, Song Han	546
44	10:00	22:00	Searching Central Difference Convolutional Networks for Face Anti-Spoofing	Zitong Yu, Chenxu Zhao, Zezheng Wang, Yunxiao Qin, Zhuo Su, Xiaobai Li, Feng Zhou, Guoying Zhao	588
45	10:00	22:00	TransMoMo: Invariance-Driven Unsupervised Video Motion Retargeting	Zhuoqian Yang, Wentao Zhu, Wayne Wu, Chen Qian, Qiang Zhou, Bolei Zhou, Chen Change Loy	651
46	10:00	22:00	AdaCoF: Adaptive Collaboration of Flows for Video Frame Interpolation	Hyeyongmin Lee, Taeoh Kim, Tae-young Chung, Daehyun Pak, Yuseok Ban, Sangyoun Lee	710
47	10:00	22:00	FReeNet: Multi-Identity Face Reenactment	Jiangning Zhang, Xianfang Zeng, Mengmeng Wang, Yusu Pan, Liang Liu, Yong Liu, Yu Ding, Changjie Fan	712
48	10:00	22:00	Novel View Synthesis of Dynamic Scenes With Globally Coherent Depths From a Monocular Camera	Jae Shin Yoon, Kihwan Kim, Orazio Gallo, Hyun Soo Park, Jan Kautz	783
49	10:00	22:00	Monocular Real-Time Hand Shape and Motion Capture Using Multi-Modal Data	Yuxiao Zhou, Marc Habermann, Weipeng Xu, Ikhsanul Habibie, Christian Theobalt, Feng Xu	1031
50	10:00	22:00	The GAN That Warped: Semantic Attribute Editing With Unpaired Data	Garoe Dorta, Sara Vicente, Neill D. F. Campbell, Ivor J. A. Simpson	1051
51	10:00	22:00	4D Visualization of Dynamic Events From Unconstrained Multi-View Videos	Aayush Bansal, Minh Vo, Yaser Sheikh, Deva Ramanan, Srinivasa Narasimhan	1062
52	10:00	22:00	Global-Local Bidirectional Reasoning for Unsupervised Representation Learning of 3D Point Clouds	Yongming Rao, Jiwen Lu, Jie Zhou	1078
53	10:00	22:00	HigherHRNet: Scale-Aware Representation Learning for Bottom-Up Human Pose Estimation	Bowen Cheng, Bin Xiao, Jingdong Wang, Honghui Shi, Thomas S. Huang, Lei Zhang	1445
54	10:00	22:00	Detecting Attended Visual Targets in Video	Eunji Chong, Yongxin Wang, Nataniel Ruiz, James M. Rehg	1494
55	10:00	22:00	Closed-Loop Matters: Dual Regression Networks for Single Image Super-	Yong Guo, Jian Chen, Jingdong Wang, Qi Chen, Liezhong Cao, Zechun Li	1519

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56	10:00	22:00	Neural Voxel Renderer: Learning an Accurate and Controllable Rendering Tool	Konstantinos Rematas, Vittorio Ferrari	1541
57	10:00	22:00	Neural Contours: Learning to Draw Lines From 3D Shapes	Difan Liu, Mohamed Nabail, Aaron Hertzmann, Evangelos Kalogerakis	1556
58	10:00	22:00	Softmax Splatting for Video Frame Interpolation	Simon Niklaus, Feng Liu	1586
59	10:00	22:00	CIAGAN: Conditional Identity Anonymization Generative Adversarial Networks	Maxim Maximov, Ismail Elezi, Laura Leal-Taixé	1687
60	10:00	22:00	Probabilistic Structural Latent Representation for Unsupervised Embedding	Mang Ye, Jianbing Shen	1788
61	10:00	22:00	Semantically Multi-Modal Image Synthesis	Zhen Zhu, Zhiliang Xu, Ansheng You, Xiang Bai	1824
62	10:00	22:00	Nested Scale-Editing for Conditional Image Synthesis	Lingzhi Zhang, Jiancong Wang, Yinshuang Xu, Jie Min, Tarmily Wen, James C. Gee, Jianbo Shi	1944
63	10:00	22:00	UnrealText: Synthesizing Realistic Scene Text Images From the Unreal World	Shangbang Long, Cong Yao	1949
64	10:00	22:00	Fast Texture Synthesis via Pseudo Optimizer	Wu Shi, Yu Qiao	1966
65	10:00	22:00	Towards Learning Structure via Consensus for Face Segmentation and Parsing	Iacopo Masi, Joe Mathai, Wael AbdAlmageed	2036
66	10:00	22:00	CookGAN: Causality Based Text-to-Image Synthesis	Bin Zhu, Chong-Wah Ngo	2126
67	10:00	22:00	Weakly Supervised Discriminative Feature Learning With State Information for Person Identification	Hong-Xing Yu, Wei-Shi Zheng	2238
68	10:00	22:00	Future Video Synthesis With Object Motion Prediction	Yue Wu, Rongrong Gao, Jaesik Park, Qifeng Chen	2269
69	10:00	22:00	MaskGAN: Towards Diverse and Interactive Facial Image Manipulation	Cheng-Han Lee, Ziwei Liu, Lingyun Wu, Ping Luo	2297
70	10:00	22:00	A Graduated Filter Method for Large Scale Robust Estimation	Huu Le, Christopher Zach	2485
71	10:00	22:00	Deep Face Super-Resolution With Iterative Collaboration Between Attentive Recovery and Landmark Estimation	Cheng Ma, Zhenyu Jiang, Yongming Rao, Jiwen Lu, Jie Zhou	2660
72	10:00	22:00	Coherent Reconstruction of Multiple Humans From a Single Image	Wen Jiang, Nikos Kolotouros, Georgios Pavlakos, Xiaowei Zhou, Kostas Daniilidis	2672

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73	10:00	22:00	PointASNL: Robust Point Clouds Processing Using Nonlocal Neural Networks With Adaptive Sampling	Xu Yan, Chaoda Zheng, Zhen Li, Sheng Wang, Shuguang Cui	2706
74	10:00	22:00	A Neural Rendering Framework for Free-Viewpoint Relighting	Zhang Chen, Anpei Chen, Guli Zhang, Chengyuan Wang, Yu Ji, Kiriakos N. Kutulakos, Jingyi Yu	2779
75	10:00	22:00	A Multi-Task Mean Teacher for Semi-Supervised Shadow Detection	Zhihao Chen, Lei Zhu, Liang Wan, Song Wang, Wei Feng, Pheng-Ann Heng	2851
76	10:00	22:00	GroupFace: Learning Latent Groups and Constructing Group-Based Representations for Face Recognition	Yonghyun Kim, Wonpyo Park, Myung-Cheol Roh, Jongju Shin	2938
77	10:00	22:00	Channel Attention Based Iterative Residual Learning for Depth Map Super-Resolution	Xibin Song, Yuchao Dai, Dingfu Zhou, Liu Liu, Wei Li, Hongdong Li, Ruigang Yang	3004
78	10:00	22:00	Time Flies: Animating a Still Image With Time-Lapse Video As Reference	Chia-Chi Cheng, Hung-Yu Chen, Wei-Chen Chiu	3062
79	10:00	22:00	SER-FIQ: Unsupervised Estimation of Face Image Quality Based on Stochastic Embedding Robustness	Philipp Terhörst, Jan Niklas Kolf, Naser Damer, Florian Kirchbuchner, Arjan Kuijper	3065
80	10:00	22:00	Grid-GCN for Fast and Scalable Point Cloud Learning	Qiangeng Xu, Xudong Sun, Cho-Ying Wu, Panqu Wang, Ulrich Neumann	3123
81	10:00	22:00	Domain Balancing: Face Recognition on Long-Tailed Domains	Dong Cao, Xiangyu Zhu, Xingyu Huang, Jianzhu Guo, Zhen Lei	4231
82	10:00	22:00	AdversarialNAS: Adversarial Neural Architecture Search for GANs	Chen Gao, Yunpeng Chen, Si Liu, Zhenxiong Tan, Shuicheng Yan	4251
83	10:00	22:00	Image Super-Resolution With Cross-Scale Non-Local Attention and Exhaustive Self-Exemplars Mining	Yiqun Mei, Yuchen Fan, Yuqian Zhou, Lichao Huang, Thomas S. Huang, Honghui Shi	4292
84	10:00	22:00	The Devil Is in the Details: Delving Into Unbiased Data Processing for Human Pose Estimation	Junjie Huang, Zheng Zhu, Feng Guo, Guan Huang	4481
85	10:00	22:00	Data Uncertainty Learning in Face Recognition	Jie Chang, Zhonghao Lan, Changmao Cheng, Yichen Wei	4510
86	10:00	22:00	Regularizing Discriminative Capability of CGANs for Semi-Supervised Generative Learning	Yi Liu, Guangchang Deng, Xiangping Zeng, Si Wu, Zhiwen Yu, Hau-San Wong	4596
87	10:00	22:00	FM2u-Net: Face Morphological Multi-Branch Network for Makeup-	Wenxuan Wang, Yanwei Fu, Xuelin Qian, Yu-Gang Jiang, Qi Tian, Xiangyang Xue	4656

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88	10:00	22:00	UCTGAN: Diverse Image Inpainting Based on Unsupervised Cross-Space Translation	Lei Zhao, Qihang Mo, Sihuan Lin, Zhizhong Wang, Zhiwen Zuo, Haibo Chen, Wei Xing, Dongming Lu	4670
89	10:00	22:00	Decoupled Representation Learning for Skeleton-Based Gesture Recognition	Jianbo Liu, Yongcheng Liu, Ying Wang, Véronique Prinet, Shiming Xiang, Chunhong Pan	4675
90	10:00	22:00	An Efficient PointLSTM for Point Clouds Based Gesture Recognition	Yuecong Min, Yanxiao Zhang, Xiujuan Chai, Xilin Chen	4713
91	10:00	22:00	Editing in Style: Uncovering the Local Semantics of GANs	Edo Collins, Raja Bala, Bob Price, Sabine Süsstrunk	4729
92	10:00	22:00	On the Detection of Digital Face Manipulation	Hao Dang, Feng Liu, Joel Stehouwer, Xiaoming Liu, Anil K. Jain	4755
93	10:00	22:00	Learning Texture Transformer Network for Image Super-Resolution	Fuzhi Yang, Huan Yang, Jianlong Fu, Hongtao Lu, Bairning Guo	4790
94	10:00	22:00	Reference-Based Sketch Image Colorization Using Augmented-Self Reference and Dense Semantic Correspondence	Junsoo Lee, Eungyeup Kim, Yunsung Lee, Dongjun Kim, Jaehyuk Chang, Jaegul Choo	4803
95	10:00	22:00	Deblurring Using Analysis-Synthesis Networks Pair	Adam Kaufman, Raanan Fattal	4925
96	10:00	22:00	Exploring Unlabeled Faces for Novel Attribute Discovery	Hyojin Bahng, Sunghyo Chung, Seungjoo Yoo, Jaegul Choo	4950
97	10:00	22:00	Neural Pose Transfer by Spatially Adaptive Instance Normalization	Jiashun Wang, Chao Wen, Yanwei Fu, Haitao Lin, Tianyun Zou, Xiangyang Xue, Yinda Zhang	4996
98	10:00	22:00	Fine-Grained Image-to-Image Transformation Towards Visual Recognition	Wei Xiong, Yutong He, Yixuan Zhang, Wenhan Luo, Lin Ma, Jiebo Luo	5001
99	10:00	22:00	Deep Facial Non-Rigid Multi-View Stereo	Ziqian Bai, Zhaopeng Cui, Jamal Ahmed Rahim, Xiaoming Liu, Ping Tan	5106
100	10:00	22:00	Attention-Driven Cropping for Very High Resolution Facial Landmark Detection	Prashanth Chandran, Derek Bradley, Markus Gross, Thabo Beeler	5163
101	10:00	22:00	Towards Unsupervised Learning of Generative Models for 3D Controllable Image Synthesis	Yiyi Liao, Katja Schwarz, Lars Mescheder, Andreas Geiger	5245
102	10:00	22:00	End-to-End Pseudo-LiDAR for Image-Based 3D Object Detection	Rui Qian, Divyansh Garg, Yan Wang, Yurong You, Serge Belongie, Bharath Hariharan, Mark Campbell, Kilian Q. Weinberger, Wei-Lun Chao	5326
103	10:00	22:00	Towards High-Fidelity 3D Face Reconstruction From In-the-Wild Images Using	Jiangke Lin, Yi Yuan, Tianjia Shao, Kun Zhou	5384

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104	10:00	22:00	CurricularFace: Adaptive Curriculum Learning Loss for Deep Face Recognition	Yuge Huang, Yuhan Wang, Ying Tai, Xiaoming Liu, Pengcheng Shen, Shaoxin Li, Jilin Li, Feiyue Huang	5450
105	10:00	22:00	Rotate-and-Render: Unsupervised Photorealistic Face Rotation From Single-View Images	Hang Zhou, Jihao Liu, Ziwei Liu, Yu Liu, Xiaogang Wang	5480
106	10:00	22:00	One-Shot Domain Adaptation for Face Generation	Chao Yang, Ser-Nam Lim	5536
107	10:00	22:00	BidNet: Binocular Image Dehazing Without Explicit Disparity Estimation	Yanwei Pang, Jing Nie, Jin Xie, Jungong Han, Xuelong Li	6189
108	10:00	22:00	Deep Shutter Unrolling Network	Peidong Liu, Zhaopeng Cui, Viktor Larsson, Marc Pollefeys	6388
109	10:00	22:00	Joint Texture and Geometry Optimization for RGB-D Reconstruction	Yanping Fu, Qingan Yan, Jie Liao, Chunxia Xiao	6785
110	10:00	22:00	Deep 3D Capture: Geometry and Reflectance From Sparse Multi-View Images	Sai Bi, Zexiang Xu, Kalyan Sunkavalli, David Kriegman, Ravi Ramamoorthi	7020
111	10:00	22:00	Auto-Tuning Structured Light by Optical Stochastic Gradient Descent	Wenzheng Chen, Parsa Mirdehghan, Sanja Fidler, Kiriakos N. Kutulakos	7187
112	10:00	22:00	MARMVS: Matching Ambiguity Reduced Multiple View Stereo for Efficient Large Scale Scene Reconstruction	Zhenyu Xu, Yiguang Liu, Xuelei Shi, Ying Wang, Yunan Zheng	7238
113	10:00	22:00	Uncertainty Based Camera Model Selection	Michal Polic, Stanislav Steidl, Cenek Albl, Zuzana Kukelova, Tomas Pajdla	7796
114	10:00	22:00	Local Implicit Grid Representations for 3D Scenes	Chiyu "Max" Jiang, Avneesh Sud, Ameesh Makadia, Jingwei Huang, Matthias Nießner, Thomas Funkhouser	7805
115	10:00	22:00	TetraTSDF: 3D Human Reconstruction From a Single Image With a Tetrahedral Outer Shell	Hayato Onizuka, Zehra Hayirci, Diego Thomas, Akihiro Sugimoto, Hideaki Uchiyama, Rin-ichiro Taniguchi	7919
116	10:00	22:00	Averaging Essential and Fundamental Matrices in Collinear Camera Settings	Amnon Geifman, Yoni Kasten, Meirav Galun, Ronen Basri	8232
117	10:00	22:00	On the Distribution of Minima in Intrinsic-Metric Rotation Averaging	Kyle Wilson, David Bindel	8410
118	10:00	22:00	Lightweight Multi-View 3D Pose Estimation Through Camera-Disentangled Representation	Edoardo Remelli, Shangchen Han, Sina Honari, Pascal Fua, Robert Wang	9055

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119	10:00	22:00	A Novel Recurrent Encoder-Decoder Structure for Large-Scale Multi-View Stereo Reconstruction From an Open Aerial Dataset	Jin Liu, Shunping Ji	9255
120	10:00	22:00	Factorized Higher-Order CNNs With an Application to Spatio-Temporal Emotion Estimation	Jean Kossaifi, Antoine Toisoul, Adrian Bulat, Yannis Panagakis, Timothy M. Hospedales, Maja Pantic	9308
121	10:00	22:00	Effectively Unbiased FID and Inception Score and Where to Find Them	Min Jin Chong, David Forsyth	9530
122	10:00	22:00	Robust Homography Estimation via Dual Principal Component Pursuit	Tianjiao Ding, Yunchen Yang, Zhihui Zhu, Daniel P. Robinson, René Vidal, Laurent Kneip, Manolis C. Tsakiris	9575
123	10:00	22:00	Non-Adversarial Video Synthesis With Learned Priors	Abhishek Aich, Akash Gupta, Rameswar Panda, Rakib Hyder, M. Salman Asif, Amit K. Roy-Chowdhury	9758
124	10:00	22:00	Uncertainty-Aware Mesh Decoder for High Fidelity 3D Face Reconstruction	Gun-Hee Lee, Seong-Whan Lee	9808

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Session: Oral 2.2A – Face, Gesture, and Body Pose (2)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	12:00	00:00	3FabRec: Fast Few-Shot Face Alignment by Reconstruction	Björn Browatzki, Christian Wallraven	8601
2	12:05	00:05	Weakly-Supervised Domain Adaptation via GAN and Mesh Model for Estimating 3D Hand Poses Interacting Objects	Seungryul Baek, Kwang In Kim, Tae-Kyun Kim	2
3	12:10	00:10	Vec2Face: Unveil Human Faces From Their Blackbox Features in Face Recognition	Chi Nhan Duong, Thanh-Dat Truong, Khoa Luu, Kha Gia Quach, Hung Bui, Kaushik Roy	6162
4	12:15	00:15	StyleRig: Rigging StyleGAN for 3D Control Over Portrait Images	Ayush Tewari, Mohamed Elgharib, Gaurav Bharaj, Florian Bernard, Hans-Peter Seidel, Patrick Pérez, Michael Zollhöfer, Christian Theobalt	5150
5	12:20	00:20	Self-Supervised 3D Human Pose Estimation via Part Guided Novel Image Synthesis	Jogendra Nath Kundu, Siddharth Seth, Varun Jampani, Mugalodi Rakesh, R. Venkatesh Babu, Anirban Chakraborty	6639
6	12:25	00:25	Learning Meta Face	Lianzhu Guo, Xianmin Zhu	5997

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7	12:30	00:30	Cascaded Deep Monocular 3D Human Pose Estimation With Evolutionary Training Data	Shichao Li, Lei Ke, Kevin Pratama, Yu-Wing Tai, Chi-Keung Tang, Kwang-Ting Cheng	589
8	12:35	00:35	GHUM & GHUML: Generative 3D Human Shape and Articulated Pose Models	Hongyi Xu, Eduard Gabriel Bazavan, Andrei Zanfir, William T. Freeman, Rahul Sukthankar, Cristian Sminchisescu	9511
9	12:40	00:40	Generating 3D People in Scenes Without People	Yan Zhang, Mohamed Hassan, Heiko Neumann, Michael J. Black, Siyu Tang	2382
10	12:45	00:45	Transferring Cross-Domain Knowledge for Video Sign Language Recognition	Dongxu Li, Xin Yu, Chenchen Xu, Lars Petersson, Hongdong Li	4570
11	12:50	00:50	Bodies at Rest: 3D Human Pose and Shape Estimation From a Pressure Image Using Synthetic Data	Henry M. Clever, Zackory Erickson, Ariel Kapusta, Greg Turk, Karen Liu, Charles C. Kemp	10031
12	12:55	00:55	Bayesian Adversarial Human Motion Synthesis	Rui Zhao, Hui Su, Qiang Ji	8473

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Session: Oral 2.2B – Motion and Tracking (1)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
13	12:00	00:00	LSM: Learning Subspace Minimization for Low-Level Vision	Chengzhou Tang, Lu Yuan, Ping Tan	1515
14	12:05	00:05	Learning a Neural Solver for Multiple Object Tracking	Guillem Brasó, Laura Leal-Taixé	6129
15	12:10	00:10	GLU-Net: Global-Local Universal Network for Dense Flow and Correspondences	Prune Truong, Martin Danelljan, Radu Timofte	7349
16	12:15	00:15	SiamCAR: Siamese Fully Convolutional Classification and Regression for Visual Tracking	Dongyan Guo, Jun Wang, Ying Cui, Zhenhua Wang, Shengyong Chen	9608
17	12:20	00:20	MaskFlownet: Asymmetric Feature Matching With Learnable Occlusion Mask	Shengyu Zhao, Yilun Sheng, Yue Dong, Eric I-Chao Chang, Yan Xu	6983
18	12:25	00:25	Tracking by Instance Detection: A Meta-Learning Approach	Guangting Wang, Chong Luo, Xiaoyan Sun, Zhiwei Xiong, Wenjun Zeng	5667
19	12:30	00:30	High-Performance Long-Term Tracking With Meta-Updater	Kenan Dai, Yunhua Zhang, Dong Wang, Jianhua Li, Huchuan Lu, Xiaoyun Yang	6338
20	12:35	00:35	TubeTK: Adopting Tubes to Track Multi-Object in a One-Step Training Model	Bo Pang, Yizhuo Li, Yifan Zhang, Muchen Li, Cewu Lu	602

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21	12:40	00:40	Collaborative Motion Prediction via Neural Motion Message Passing	Yue Hu, Siheng Chen, Ya Zhang, Xiao Gu	3100
22	12:45	00:45	P2B: Point-to-Box Network for 3D Object Tracking in Point Clouds	Haozhe Qi, Chen Feng, Zhiguo Cao, Feng Zhao, Yang Xiao	2291
23	12:50	00:50	Self-Supervised Deep Visual Odometry With Online Adaptation	Shunkai Li, Xin Wang, Yingdian Cao, Fei Xue, Zike Yan, Hongbin Zha	2089
24	12:55	00:55	Globally Optimal Contrast Maximisation for Event-Based Motion Estimation	Daqi Liu, Álvaro Parra, Tat-Jun Chin	6717

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Session: Oral 2.2C – Representation Learning

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
25	12:00	00:00	D3Feat: Joint Learning of Dense Detection and Description of 3D Local Features	Xuyang Bai, Zixin Luo, Lei Zhou, Hongbo Fu, Long Quan, Chiew-Lan Tai	8067
26	12:05	00:05	Towards Backward-Compatible Representation Learning	Yantao Shen, Yuanjun Xiong, Wei Xia, Stefano Soatto	2166
27	12:10	00:10	PointAugment: An Auto-Augmentation Framework for Point Cloud Classification	Ruihui Li, Xianzhi Li, Pheng-Ann Heng, Chi-Wing Fu	793
28	12:15	00:15	Cross-Batch Memory for Embedding Learning	Xun Wang, Haozhi Zhang, Weilin Huang, Matthew R. Scott	9225
29	12:20	00:20	Circle Loss: A Unified Perspective of Pair Similarity Optimization	Yifan Sun, Changmao Cheng, Yuhan Zhang, Chi Zhang, Liang Zheng, Zhongdao Wang, Yichen Wei	925
30	12:25	00:25	Steering Self-Supervised Feature Learning Beyond Local Pixel Statistics	Simon Jenni, Hailin Jin, Paolo Favaro	9345
31	12:30	00:30	Hyperbolic Image Embeddings	Valentin Khrulkov, Leyla Mirvakhabova, Evgeniya Ustinova, Ivan Oseledets, Victor Lempitsky	7736
32	12:35	00:35	Controllable Orthogonalization in Training DNNs	Lei Huang, Li Liu, Fan Zhu, Diwen Wan, Zehuan Yuan, Bo Li, Ling Shao	2854
33	12:40	00:40	An Investigation Into the Stochasticity of Batch Whitening	Lei Huang, Lei Zhao, Yi Zhou, Fan Zhu, Li Liu, Ling Shao	5066

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Session: Poster 2.2 – Face, Gesture, and Body Pose; Motion and Tracking; Representation Learning

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
34	12:00	00:00	High-Order Information Matters: Learning Relation and Topology for Occluded Person Re-Identification	Guan'an Wang, Shuo Yang, Huanyu Liu, Zhicheng Wang, Yang Yang, Shuliang Wang, Gang Yu, Erjin Zhou, Jian Sun	189
35	12:00	00:00	Same Features, Different Day: Weakly Supervised Feature Learning for Seasonal Invariance	Jaime Spencer, Richard Bowden, Simon Hadfield	303
36	12:00	00:00	Learning to Dress 3D People in Generative Clothing	Qianli Ma, Jinlong Yang, Anurag Ranjan, Sergi Pujades, Gerard Pons-Moll, Siyu Tang, Michael J. Black	382
37	12:00	00:00	MAST: A Memory-Augmented Self-Supervised Tracker	Zihang Lai, Erika Lu, Weidi Xie	611
38	12:00	00:00	Learning by Analogy: Reliable Supervision From Transformations for Unsupervised Optical Flow Estimation	Liang Liu, Jiangning Zhang, Ruifei He, Yong Liu, Yabiao Wang, Ying Tai, Donghao Luo, Chengjie Wang, Jilin Li, Feiyue Huang	714
39	12:00	00:00	GNN3DMOT: Graph Neural Network for 3D Multi-Object Tracking With 2D-3D Multi-Feature Learning	Xinshuo Weng, Yongxin Wang, Yunze Man, Kris M. Kitani	830
40	12:00	00:00	ClusterFit: Improving Generalization of Visual Representations	Xueting Yan, Ishan Misra, Abhinav Gupta, Deepti Ghadiyaram, Dhruv Mahajan	832
41	12:00	00:00	Learning Dynamic Relationships for 3D Human Motion Prediction	Qiongjie Cui, Huaijiang Sun, Fei Yang	1075
42	12:00	00:00	Knowledge As Priors: Cross-Modal Knowledge Generalization for Datasets Without Superior Knowledge	Long Zhao, Xi Peng, Yuxiao Chen, Mubbashir Kapadia, Dimitris N. Metaxas	1162
43	12:00	00:00	S3VAE: Self-Supervised Sequential VAE for Representation Disentanglement and Data Generation	Yizhe Zhu, Martin Renqiang Min, Asim Kadav, Hans Peter Graf	1211
44	12:00	00:00	Video Playback Rate Perception for Self-Supervised Spatio-Temporal Representation Learning	Yuan Yao, Chang Liu, Dezhao Luo, Yu Zhou, Qixiang Ye	1329
45	12:00	00:00	Learning to Manipulate Individual Objects in an Image	Yanchao Yang, Yutong Chen, Stefano Soatto	1365
46	12:00	00:00	PADS: Policy-Adapted Sampling for Visual Similarity Learning	Karsten Roth, Timo Milbich, Björn Ommer	1485
47	12:00	00:00	Siam R-CNN: Visual Tracking	Paul Voigtlaender, Jonathon	1528

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48	12:00	00:00	ASLFeat: Learning Local Features of Accurate Shape and Localization	Zixin Luo, Lei Zhou, Xuyang Bai, Hongkai Chen, Jiahui Zhang, Yao Yao, Shiwei Li, Tian Fang, Long Quan	1536
49	12:00	00:00	Filter Grafting for Deep Neural Networks	Fanxu Meng, Hao Cheng, Ke Li, Zhixin Xu, Rongrong Ji, Xing Sun, Guangming Lu	1810
50	12:00	00:00	HOPE-Net: A Graph-Based Model for Hand-Object Pose Estimation	Bardia Doosti, Shujon Naha, Majid Mirbagheri, David J. Crandall	1881
51	12:00	00:00	DeepFaceFlow: In-the-Wild Dense 3D Facial Motion Estimation	Mohammad Rami Koujan, Anastasios Roussos, Stefanos Zafeiriou	1934
52	12:00	00:00	Learning for Video Compression With Hierarchical Quality and Recurrent Enhancement	Ren Yang, Fabian Mentzer, Luc Van Gool, Radu Timofte	2007
53	12:00	00:00	Learning Better Lossless Compression Using Lossy Compression	Fabian Mentzer, Luc Van Gool, Michael Tschannen	2008
54	12:00	00:00	Flow2Stereo: Effective Self-Supervised Learning of Optical Flow and Stereo Matching	Pengpeng Liu, Irwin King, Michael R. Lyu, Jia Xu	2094
55	12:00	00:00	Multi-Scale Fusion Subspace Clustering Using Similarity Constraint	Zhiyuan Dang, Cheng Deng, Xu Yang, Heng Huang	2380
56	12:00	00:00	Siamese Box Adaptive Network for Visual Tracking	Zedu Chen, Bineng Zhong, Guorong Li, Shengping Zhang, Rongrong Ji	2452
57	12:00	00:00	Cross-Domain Face Presentation Attack Detection via Multi-Domain Disentangled Representation Learning	Guoqing Wang, Hu Han, Shiguang Shan, Xilin Chen	2618
58	12:00	00:00	Online Deep Clustering for Unsupervised Representation Learning	Xiaohang Zhan, Jiahao Xie, Ziwei Liu, Yew-Soon Ong, Chen Change Loy	2957
59	12:00	00:00	Density-Aware Feature Embedding for Face Clustering	Senhui Guo, Jing Xu, Dapeng Chen, Chao Zhang, Xiaogang Wang, Rui Zhao	2985
60	12:00	00:00	Self-Supervised Learning of Pretext-Invariant Representations	Ishan Misra, Laurens van der Maaten	4224
61	12:00	00:00	ROAM: Recurrently Optimizing Tracking Model	Tianyu Yang, Pengfei Xu, Runbo Hu, Hua Chai, Antoni B. Chan	4243
62	12:00	00:00	Deformable Siamese Attention Networks for Visual Object Tracking	Yuechen Yu, Yilei Xiong, Weilin Huang, Matthew R. Scott	4311
63	12:00	00:00	15 Keypoints Is All You Need	Michael Snower, Asim Kadav, Farley Lai, Hans Peter Graf	4674
64	12:00	00:00	Optical Flow in the Dark	Yinqiang Zheng, Mingfang	4690

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65	12:00	00:00	Sketch-BERT: Learning Sketch Bidirectional Encoder Representation From Transformers by Self-Supervised Learning of Sketch Gestalt	Hangyu Lin, Yanwei Fu, Xiangyang Xue, Yu-Gang Jiang	4710
66	12:00	00:00	A Unified Object Motion and Affinity Model for Online Multi-Object Tracking	Junbo Yin, Wenguan Wang, Qinghao Meng, Ruigang Yang, Jianbing Shen	4820
67	12:00	00:00	Sub-Frame Appearance and 6D Pose Estimation of Fast Moving Objects	Denys Rozumnyi, Jan Kotera, Filip Šroubek, Jiří Matas	4889
68	12:00	00:00	How to Train Your Deep Multi-Object Tracker	Yihong Xu, Aljosa Osep, Yutong Ban, Radu Horaud, Laura Leal-Taixé, Xavier Alameda-Pineda	4944
69	12:00	00:00	TPNet: Trajectory Proposal Network for Motion Prediction	Liangji Fang, Qinhong Jiang, Jianping Shi, Bolei Zhou	5072
70	12:00	00:00	Large Scale Video Representation Learning via Relational Graph Clustering	Hyodong Lee, Joonseok Lee, Joe Yue-Hei Ng, Paul Natsev	5108
71	12:00	00:00	Towards Universal Representation Learning for Deep Face Recognition	Yichun Shi, Xiang Yu, Kihyuk Sohn, Manmohan Chandraker, Anil K. Jain	5260
72	12:00	00:00	Robust Partial Matching for Person Search in the Wild	Yingji Zhong, Xiaoyu Wang, Shiliang Zhang	5409
73	12:00	00:00	Correlation-Guided Attention for Corner Detection Based Visual Tracking	Fei Du, Peng Liu, Wei Zhao, Xianglong Tang	5448
74	12:00	00:00	Learning Multi-Object Tracking and Segmentation From Automatic Annotations	Lorenzo Porzi, Markus Hofinger, Idoia Ruiz, Joan Serrat, Samuel Rota Bulò, Peter Kontschieder	5452
75	12:00	00:00	PandaNet: Anchor-Based Single-Shot Multi-Person 3D Pose Estimation	Abdallah Benzine, Florian Chabot, Bertrand Luvison, Quoc Cuong Pham, Catherine Achard	5557
76	12:00	00:00	Rotation Consistent Margin Loss for Efficient Low-Bit Face Recognition	Yudong Wu, Yichao Wu, Ruihao Gong, Yuanhao Lv, Ken Chen, Ding Liang, Xiaolin Hu, Xianglong Liu, Junjie Yan	5657
77	12:00	00:00	Joint Spatial-Temporal Optimization for Stereo 3D Object Tracking	Peiliang Li, Jieqi Shi, Shaojie Shen	5669
78	12:00	00:00	Unity Style Transfer for Person Re-Identification	Chong Liu, Xiaojun Chang, Yi-Dong Shen	5671
79	12:00	00:00	Suppressing Uncertainties for Large-Scale Facial Expression Recognition	Kai Wang, Xiaojiang Peng, Jianfei Yang, Shijian Lu, Yu Qiao	5737
80	12:00	00:00	Multiview-Consistent Semi-Supervised Learning for 3D Human Pose Estimation	Rahul Mitra, Nitesh B. Gundavarapu, Abhishek Sharma, Arjun Jain	5775

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81	12:00	00:00	Regularizing Neural Networks via Minimizing Hyperspherical Energy	Rongmei Lin, Weiyang Liu, Zhen Liu, Chen Feng, Zhiding Yu, James M. Rehg, Li Xiong, Le Song	5840
82	12:00	00:00	Learning Representations by Predicting Bags of Visual Words	Spyros Gidaris, Andrei Bursuc, Nikos Komodakis, Patrick Pérez, Matthieu Cord	5874
83	12:00	00:00	AnimalWeb: A Large-Scale Hierarchical Dataset of Annotated Animal Faces	Muhammad Haris Khan, John McDonagh, Salman Khan, Muhammad Shahabuddin, Aditya Arora, Fahad Shahbaz Khan, Ling Shao, Georgios Tzimiropoulos	6011
84	12:00	00:00	A Transductive Approach for Video Object Segmentation	Yizhuo Zhang, Zhirong Wu, Houwen Peng, Stephen Lin	6039
85	12:00	00:00	Dynamic Face Video Segmentation via Reinforcement Learning	Yujiang Wang, Mingzhi Dong, Jie Shen, Yang Wu, Shiyang Cheng, Maja Pantic	6054
86	12:00	00:00	Implicit Functions in Feature Space for 3D Shape Reconstruction and Completion	Julian Chibane, Thiemo Alldieck, Gerard Pons-Moll	6068
87	12:00	00:00	Semantic Drift Compensation for Class-Incremental Learning	Lu Yu, Bartłomiej Twardowski, Xialei Liu, Luis Herranz, Kai Wang, Yongmei Cheng, Shangling Jui, Joost van de Weijer	6105
88	12:00	00:00	Context-Aware Human Motion Prediction	Enric Corona, Albert Pumarola, Guillem Alenyà, Francesc Moreno-Noguer	6144
89	12:00	00:00	DeepDeform: Learning Non-Rigid RGB-D Reconstruction With Semi-Supervised Data	Aljaž Božič, Michael Zollhöfer, Christian Theobalt, Matthias Nießner	6155
90	12:00	00:00	Optical Non-Line-of-Sight Physics-Based 3D Human Pose Estimation	Mariko Isogawa, Ye Yuan, Matthew O'Toole, Kris M. Kitani	6165
91	12:00	00:00	Learning to Transfer Texture From Clothing Images to 3D Humans	Aymen Mir, Thiemo Alldieck, Gerard Pons-Moll	6177
92	12:00	00:00	UniPose: Unified Human Pose Estimation in Single Images and Videos	Bruno Artacho, Andreas Savakis	6192
93	12:00	00:00	Minimal Solutions to Relative Pose Estimation From Two Views Sharing a Common Direction With Unknown Focal Length	Yaqing Ding, Jian Yang, Jean Ponce, Hui Kong	6245
94	12:00	00:00	3D Human Mesh Regression With Dense Correspondence	Wang Zeng, Wanli Ouyang, Ping Luo, Wentao Liu, Xiaogang Wang	6333
95	12:00	00:00	Cross-Modal Pattern-Propagation for RGB-T Tracking	Chaoqun Wang, Chunyan Xu, Zhen Cui, Ling Zhou, Tong Zhang, Xiaoya Zhang, Jian Yang	6527

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96	12:00	00:00	Distilling Knowledge From Graph Convolutional Networks	Yiding Yang, Jiayan Qiu, Mingli Song, Dacheng Tao, Xinchao Wang	6621
97	12:00	00:00	Learning Identity-Invariant Motion Representations for Cross-ID Face Reenactment	Po-Hsiang Huang, Fu-En Yang, Yu-Chiang Frank Wang	6760
98	12:00	00:00	Distribution-Aware Coordinate Representation for Human Pose Estimation	Feng Zhang, Xiatian Zhu, Hanbin Dai, Mao Ye, Ce Zhu	6795
99	12:00	00:00	Parsing-Based View-Aware Embedding Network for Vehicle Re-Identification	Dechao Meng, Liang Li, Xuejing Liu, Yadong Li, Shijie Yang, Zheng-Jun Zha, Xingyu Gao, Shuhui Wang, Qingming Huang	6835
100	12:00	00:00	HandVoxNet: Deep Voxel-Based Network for 3D Hand Shape and Pose Estimation From a Single Depth Map	Jameel Malik, Ibrahim Abdelaziz, Ahmed Elhayek, Soshi Shimada, Sk Aziz Ali, Vladislav Golyanik, Christian Theobalt, Didier Stricker	7041
101	12:00	00:00	Determinant Regularization for Gradient-Efficient Graph Matching	Tianshu Yu, Junchi Yan, Baoxin Li	7066
102	12:00	00:00	D3S – A Discriminative Single Shot Segmentation Tracker	Alan Lukežič, Jiří Matas, Matej Kristan	7249
103	12:00	00:00	MANTRA: Memory Augmented Networks for Multiple Trajectory Prediction	Francesco Marchetti, Federico Becattini, Lorenzo Seidenari, Alberto Del Bimbo	7254
104	12:00	00:00	End-to-End Model-Free Reinforcement Learning for Urban Driving Using Implicit Affordances	Marin Toromanoff, Emilie Wirbel, Fabien Moutarde	7262
105	12:00	00:00	GraphTER: Unsupervised Learning of Graph Transformation Equivariant Representations via Auto-Encoding Node-Wise Transformations	Xiang Gao, Wei Hu, Guo-Jun Qi	7288
106	12:00	00:00	Can Facial Pose and Expression Be Separated With Weak Perspective Camera?	Evangelos Sariyanidi, Casey J. Zampella, Robert T. Schultz, Birkan Tunc	7808
107	12:00	00:00	Probabilistic Regression for Visual Tracking	Martin Danelljan, Luc Van Gool, Radu Timofte	7835
108	12:00	00:00	3DRegNet: A Deep Neural Network for 3D Point Registration	G. Dias Pais, Sri Kumar Ramalingam, Venu Madhav Govindu, Jacinto C. Nascimento, Rama Chellappa, Pedro Miraldo	7864
109	12:00	00:00	Compressed Volumetric Heatmaps for Multi-Person 3D Pose Estimation	Matteo Fabbri, Fabio Lanzi, Simone Calderara, Stefano Alletto, Rita Cucchiara	7884
110	12:00	00:00	Three-Dimensional Reconstruction of Human	Mihai Fieraru, Mihai Zanfir, Elisabeta Oneata, Alin-Ionut Dumitrescu	8267

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111	12:00	00:00	Distribution-Induced Bidirectional Generative Adversarial Network for Graph Representation Learning	Shuai Zheng, Zhenfeng Zhu, Xingxing Zhang, Zhizhe Liu, Jian Cheng, Yao Zhao	8350
112	12:00	00:00	Minimal Solvers for 3D Scan Alignment With Pairs of Intersecting Lines	André Mateus, Sri Kumar Ramalingam, Pedro Miraldo	8397
113	12:00	00:00	Wavelet Integrated CNNs for Noise-Robust Image Classification	Qiufu Li, Linlin Shen, Sheng Guo, Zhihui Lai	8850
114	12:00	00:00	Embedding Expansion: Augmentation in Embedding Space for Deep Metric Learning	Byungsoo Ko, Geonmo Gu	8918
115	12:00	00:00	PropagationNet: Propagate Points to Curve to Learn Structure Information	Xiehe Huang, Weihong Deng, Haifeng Shen, Xiubao Zhang, Jieping Ye	8980
116	12:00	00:00	Sequential 3D Human Pose and Shape Estimation From Point Clouds	Kangkan Wang, Jin Xie, Guofeng Zhang, Lei Liu, Jian Yang	9189
117	12:00	00:00	Improving the Robustness of Capsule Networks to Image Affine Transformations	Jindong Gu, Volker Tresp	9208
118	12:00	00:00	Noise Modeling, Synthesis and Classification for Generic Object Anti-Spoofing	Joel Stehouwer, Amin Jourabloo, Yaojie Liu, Xiaoming Liu	9330
119	12:00	00:00	Quaternion Product Units for Deep Learning on 3D Rotation Groups	Xuan Zhang, Shaofei Qin, Yi Xu, Hongteng Xu	9374
120	12:00	00:00	Unsupervised Representation Learning for Gaze Estimation	Yu Yu, Jean-Marc Odobez	9594
121	12:00	00:00	P-nets: Deep Polynomial Neural Networks	Grigorios G. Chrysos, Stylianos Moschoglou, Giorgos Bouritsas, Yannis Panagakis, Jiankang Deng, Stefanos Zafeiriou	9690
122	12:00	00:00	Hierarchically Robust Representation Learning	Qi Qian, Juhua Hu, Hao Li	9807
123	12:00	00:00	How Useful Is Self-Supervised Pretraining for Visual Tasks?	Alejandro Newell, Jia Deng	9897

Date: Wednesday, June 17 & Thursday, June 18 2020 **Q&A Time:** 1400–1600 and 0200–0400

Session: Oral 2.3A – Face, Gesture, and Body Pose (3); Motion and Tracking (2)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	14:00	02:00	Copy and Paste GAN: Face Hallucination From Shaded	Yang Zhang, Ivor W. Tsang, Yawei Luo, Chang-Hui Hu,	8585

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2	14:05	02:05	TailorNet: Predicting Clothing in 3D as a Function of Human Pose, Shape and Garment Style	Chaitanya Patel, Zhouyingcheng Liao, Gerard Pons-Moll	6098
3	14:10	02:10	Object-Occluded Human Shape and Pose Estimation From a Single Color Image	Tianshu Zhang, Buzhen Huang, Yangang Wang	7498
4	14:15	02:15	Recursive Least-Squares Estimator-Aided Online Learning for Visual Tracking	Jin Gao, Weiming Hu, Yan Lu	4260
5	14:20	02:20	Self-Supervised Monocular Scene Flow Estimation	Junhwa Hur, Stefan Roth	1830
6	14:25	02:25	Learning Fast and Robust Target Models for Video Object Segmentation	Andreas Robinson, Felix Järemo Lawin, Martin Danelljan, Fahad Shahbaz Khan, Michael Felsberg	8442
7	14:30	02:30	Reciprocal Learning Networks for Human Trajectory Prediction	Hao Sun, Zhiqun Zhao, Zhihai He	8370
8	14:35	02:35	Nonparametric Object and Parts Modeling With Lie Group Dynamics	David S. Hayden, Jason Pacheco, John W. Fisher III	7036

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Session: Oral 2.3B – Image and Video Synthesis (2); Neural Generative Models

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
9	14:00	02:00	Learning to Shadow Hand-Drawn Sketches	Qingyuan Zheng, Zhuoru Li, Adam Bargteil	6227
10	14:05	02:05	Intuitive, Interactive Beard and Hair Synthesis With Generative Models	Kyle Olszewski, Duygu Ceylan, Jun Xing, Jose Echevarria, Zhili Chen, Weikai Chen, Hao Li	6270
11	14:10	02:10	Semantic Pyramid for Image Generation	Assaf Shocher, Yossi Gandelsman, Inbar Mosseri, Michal Yarom, Michal Irani, William T. Freeman, Tali Dekel	6553
12	14:15	02:15	SynSin: End-to-End View Synthesis From a Single Image	Olivia Wiles, Georgia Gkioxari, Richard Szeliski, Justin Johnson	526
13	14:20	02:20	A Characteristic Function Approach to Deep Implicit Generative Modeling	Abdul Fatir Ansari, Jonathan Scarlett, Harold Soh	6863
14	14:25	02:25	High-Resolution Daytime Translation Without Domain Labels	Ivan Anokhin, Pavel Solovev, Denis Korzhenkov, Alexey Kharlamov, Taras Khakhulin, Aleksei Silvestrov, Sergey Nikolenko, Victor Lempitsky, Gleb Sterkin	7827

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15	14:30	02:30	Leveraging 2D Data to Learn Textured 3D Mesh Generation	Paul Henderson, Vagia Tsiminaki, Christoph H. Lampert	9792
16	14:35	02:35	Contextual Residual Aggregation for Ultra High-Resolution Image Inpainting	Zili Yi, Qiang Tang, Shekoofeh Azizi, Daesik Jang, Zhan Xu	353
17	14:40	02:40	Flow Contrastive Estimation of Energy-Based Models	Ruiqi Gao, Erik Nijkamp, Diederik P. Kingma, Zhen Xu, Andrew M. Dai, Ying Nian Wu	10609

Date: Wednesday, June 17 & Thursday, June 18 2020 **Q&A Time:** 1400–1600 and 0200–0400

Session: Oral 2.3C – Optimization and Learning Methods

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
18	14:00	02:00	Hardware-in-the-Loop End-to-End Optimization of Camera Image Processing Pipelines	Ali Mosleh, Avinash Sharma, Emmanuel Onzon, Fahim Mannan, Nicolas Robidoux, Felix Heide	1606
19	14:05	02:05	Search to Distill: Pearls Are Everywhere but Not the Eyes	Yu Liu, Xuhui Jia, Mingxing Tan, Raviteja Vemulapalli, Yukun Zhu, Bradley Green, Xiaogang Wang	800
20	14:10	02:10	Total Deep Variation for Linear Inverse Problems	Erich Kobler, Alexander Effland, Karl Kunisch, Thomas Pock	4609
21	14:15	02:15	Relative Interior Rule in Block-Coordinate Descent	Tomáš Werner, Daniel Průša, Tomáš Dlask	10084
22	14:20	02:20	Learning Combinatorial Solver for Graph Matching	Tao Wang, He Liu, Yidong Li, Yi Jin, Xiaohui Hou, Haibin Ling	2643
23	14:25	02:25	SampleNet: Differentiable Point Cloud Sampling	Itai Lang, Asaf Manor, Shai Avidan	6545
24	14:30	02:30	Can We Learn Heuristics for Graphical Model Inference Using Reinforcement Learning?	Safa Messaoud, Maghav Kumar, Alexander G. Schwing	9158
25	14:35	02:35	Quasi-Newton Solver for Robust Non-Rigid Registration	Yuxin Yao, Bailin Deng, Weiwei Xu, Juyong Zhang	5011
26	14:40	02:40	Rethinking Class-Balanced Methods for Long-Tailed Visual Recognition From a Domain Adaptation Perspective	Muhammad Abdullah Jamal, Matthew Brown, Ming-Hsuan Yang, Liqiang Wang, Boqing Gong	8760
27	14:45	02:45	Optimizing Rank-Based Metrics With Blackbox Differentiation	Michal Rolínek, Vít Musil, Anselm Paulus, Marin Vlastelica, Claudio Michaelis, Georg Martius	6152

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Date: Wednesday, June 17 & Thursday, June 18 2020 **Q&A Time:** 1400–1600 and 0200–0400

Session: Poster 2.3 – Face, Gesture, and Body Pose; Motion and Tracking; Image and Video Synthesis; Neural Generative Models; Optimization and Learning Methods

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
28	14:00	02:00	DualSDF: Semantic Shape Manipulation Using a Two-Level Representation	Zekun Hao, Hadar Averbuch-Elor, Noah Snavely, Serge Belongie	418
29	14:00	02:00	Dynamic Hierarchical Mimicking Towards Consistent Optimization Objectives	Duo Li, Qifeng Chen	736
30	14:00	02:00	Deep Homography Estimation for Dynamic Scenes	Hoang Le, Feng Liu, Shu Zhang, Aseem Agarwala	892
31	14:00	02:00	PF-Net: Point Fractal Network for 3D Point Cloud Completion	Zitian Huang, Yikuan Yu, Jiawen Xu, Feng Ni, Xinyi Le	960
32	14:00	02:00	On the Regularization Properties of Structured Dropout	Ambar Pal, Connor Lane, René Vidal, Benjamin D. Haefele	1721
33	14:00	02:00	Learning Oracle Attention for High-Fidelity Face Completion	Tong Zhou, Changxing Ding, Shaowen Lin, Xinchao Wang, Dacheng Tao	1728
34	14:00	02:00	Deep Image Spatial Transformation for Person Image Generation	Yurui Ren, Xiaoming Yu, Junming Chen, Thomas H. Li, Ge Li	1791
35	14:00	02:00	Learning to Optimize on SPD Manifolds	Zhi Gao, Yuwei Wu, Yunde Jia, Mehrtash Harandi	1888
36	14:00	02:00	Deep 3D Portrait From a Single Image	Sicheng Xu, Jiaolong Yang, Dong Chen, Fang Wen, Yu Deng, Yunde Jia, Xin Tong	1978
37	14:00	02:00	RDCFace: Radial Distortion Correction for Face Recognition	He Zhao, Xianghua Ying, Yongjie Shi, Xin Tong, Jingsi Wen, Hongbin Zha	2081
38	14:00	02:00	Global-Local GCN: Large-Scale Label Noise Cleansing for Face Recognition	Yaobin Zhang, Weihong Deng, Mei Wang, Jian Hu, Xian Li, Dongyue Zhao, Dongchao Wen	2189
39	14:00	02:00	MISC: Multi-Condition Injection and Spatially-Adaptive Compositing for Conditional Person Image Synthesis	Shuchen Weng, Wenbo Li, Dawei Li, Hongxia Jin, Boxin Shi	2385
40	14:00	02:00	SAINT: Spatially Aware Interpolation NeTwork for Medical Slice Synthesis	Cheng Peng, Wei-An Lin, Haofu Liao, Rama Chellappa, S. Kevin Zhou	2512
41	14:00	02:00	Recurrent Feature Reasoning for Image Inpainting	Jingyuan Li, Ning Wang, Lefei Zhang, Bo Du, Dacheng Tao	2846
42	14:00	02:00	Structure-Preserving Super Resolution With Gradient Guidance	Cheng Ma, Yongming Rao, Yean Cheng, Ce Chen, Jiwen Lu, Jie Zhou	2888

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43	14:00	02:00	Epipolar Transformers	Yihui He, Rui Yan, Katerina Fragkiadaki, Shou-I Yu	2966
44	14:00	02:00	Diversified Arbitrary Style Transfer via Deep Feature Perturbation	Zhizhong Wang, Lei Zhao, Haibo Chen, Lihong Qiu, Qihang Mo, Sihuan Lin, Wei Xing, Dongming Lu	4244
45	14:00	02:00	MSG-GAN: Multi-Scale Gradients for Generative Adversarial Networks	Animesh Karnewar, Oliver Wang	4679
46	14:00	02:00	Overcoming Multi-Model Forgetting in One-Shot NAS With Diversity Maximization	Miao Zhang, Huiqi Li, Shirui Pan, Xiaojun Chang, Steven Su	4686
47	14:00	02:00	Select to Better Learn: Fast and Accurate Deep Learning Using Data Selection From Nonlinear Manifolds	Mohsen Joneidi, Saeed Vahidian, Ashkan Esmaeili, Weijia Wang, Nazanin Rahnavard, Bill Lin, Mubarak Shah	4942
48	14:00	02:00	Neural Point Cloud Rendering via Multi-Plane Projection	Peng Dai, Yinda Zhang, Zhuwen Li, Shuaicheng Liu, Bing Zeng	4988
49	14:00	02:00	Wish You Were Here: Context-Aware Human Generation	Oran Gafni, Lior Wolf	5070
50	14:00	02:00	Towards Photo-Realistic Virtual Try-On by Adaptively Generating↔Preserving Image Content	Han Yang, Ruimao Zhang, Xiaobao Guo, Wei Liu, Wangmeng Zuo, Ping Luo	5162
51	14:00	02:00	Breaking the Cycle – Colleagues Are All You Need	Ori Nizan, Ayellet Tal	5192
52	14:00	02:00	Local Class-Specific and Global Image-Level Generative Adversarial Networks for Semantic-Guided Scene Generation	Hao Tang, Dan Xu, Yan Yan, Philip H.S. Torr, Nicu Sebe	5211
53	14:00	02:00	ManiGAN: Text-Guided Image Manipulation	Bowen Li, Xiaojuan Qi, Thomas Lukasiewicz, Philip H.S. Torr	5263
54	14:00	02:00	Watch Your Up-Convolution: CNN Based Generative Deep Neural Networks Are Failing to Reproduce Spectral Distributions	Ricard Durall, Margret Keuper, Janis Keuper	5427
55	14:00	02:00	Belief Propagation Reloaded: Learning BP-Layers for Labeling Problems	Patrick Knöbelreiter, Christian Sormann, Alexander Shekhovtsov, Friedrich Fraundorfer, Thomas Pock	5455
56	14:00	02:00	Barycenters of Natural Images Constrained Wasserstein Barycenters for Image Morphing	Dror Simon, Aviad Aberdam	5559
57	14:00	02:00	Guided Variational Autoencoder for Disentanglement Learning	Zheng Ding, Yifan Xu, Weijian Xu, Gaurav Parmar, Yang Yang, Max Welling, Zhuowen Teng	5596

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61	14:00	02:00	Cogradient Descent for Bilinear Optimization	Li'an Zhuo, Baochang Zhang, Linlin Yang, Hanlin Chen, Qixiang Ye, David Doermann, Rongrong Ji, Guodong Guo	5767
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63	14:00	02:00	Joint Training of Variational Auto-Encoder and Latent Energy-Based Model	Tian Han, Erik Nijkamp, Linqi Zhou, Bo Pang, Song-Chun Zhu, Ying Nian Wu	5829
64	14:00	02:00	Adaptive Loss-Aware Quantization for Multi-Bit Networks	Zhongnan Qu, Zimu Zhou, Yun Cheng, Lothar Thiele	6067
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68	14:00	02:00	3D Photography Using Context-Aware Layered Depth Inpainting	Meng-Li Shih, Shih-Yang Su, Johannes Kopf, Jia-Bin Huang	6222
69	14:00	02:00	MixNMatch: Multifactor Disentanglement and Encoding for Conditional Image Generation	Yuheng Li, Krishna Kumar Singh, Utkarsh Ojha, Yong Jae Lee	6260
70	14:00	02:00	Low-Rank Compression of Neural Nets: Learning the Rank of Each Layer	Yerlan Idelbayev, Miguel Á. Carreira-Perpiñán	6447
71	14:00	02:00	Global Texture Enhancement for Fake Face Detection in the Wild	Zhengze Liu, Xiaojuan Qi, Philip H.S. Torr	6546
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77	14:00	02:00	Fashion Editing With Adversarial Parsing Learning	Haoye Dong, Xiaodan Liang, Yixuan Zhang, Xujie Zhang, Xiaohui Shen, Zhenyu Xie, Bowen Wu, Jian Yin	6890
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79	14:00	02:00	ARShadowGAN: Shadow Generative Adversarial Network for Augmented Reality in Single Light Scenes	Daquan Liu, Chengjiang Long, Hongpan Zhang, Hanning Yu, Xinzhi Dong, Chunxia Xiao	6919
80	14:00	02:00	An End-to-End Edge Aggregation Network for Moving Object Segmentation	Prashant W. Patil, Kuldeep M. Biradar, Akshay Dudhane, Subrahmanyam Murala	6929
81	14:00	02:00	Learning Video Stabilization Using Optical Flow	Jiyang Yu, Ravi Ramamoorthi	7027
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83	14:00	02:00	Robust Design of Deep Neural Networks Against Adversarial Attacks Based on Lyapunov Theory	Arash Rahnama, Andre T. Nguyen, Edward Raff	7141
84	14:00	02:00	StarGAN v2: Diverse Image Synthesis for Multiple Domains	Yunjey Choi, Youngjung Uh, Jaejun Yoo, Jung-Woo Ha	7261
85	14:00	02:00	Warping Residual Based Image Stitching for Large Parallax	Kyu-Yul Lee, Jae-Young Sim	7307
86	14:00	02:00	A U-Net Based Discriminator for Generative Adversarial Networks	Edgar Schönfeld, Bernt Schiele, Anna Khoreva	7361
87	14:00	02:00	Unpaired Portrait Drawing Generation via Asymmetric Cycle Mapping	Ran Yi, Yong-Jin Liu, Yu-Kun Lai, Paul L. Rosin	7374
88	14:00	02:00	When to Use Convolutional Neural Networks for Inverse Problems	Nathaniel Chodosh, Simon Lucey	7404
89	14:00	02:00	LUVLi Face Alignment: Estimating Landmarks' Location, Uncertainty, and Visibility Likelihood	Abhinav Kumar, Tim K. Marks, Wenxuan Mou, Ye Wang, Michael Jones, Anoop Cherian, Toshiaki Koike-Akino, Xiaoming Liu, Chen	7427

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91	14:00	02:00	Unsupervised Magnification of Posture Deviations Across Subjects	Michael Dorkenwald, Uta Büchler, Björn Ommer	7581
92	14:00	02:00	Accurate Estimation of Body Height From a Single Depth Image via a Four-Stage Developing Network	Fukun Yin, Shizhe Zhou	7586
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94	14:00	02:00	Global Optimality for Point Set Registration Using Semidefinite Programming	José Pedro Iglesias, Carl Olsson, Fredrik Kahl	7681
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96	14:00	02:00	SQE: a Self Quality Evaluation Metric for Parameters Optimization in Multi-Object Tracking	Yanru Huang, Feiyu Zhu, Zheni Zeng, Xi Qiu, Yuan Shen, Jianan Wu	7708
97	14:00	02:00	EventSR: From Asynchronous Events to Image Reconstruction, Restoration, and Super-Resolution via End-to-End Adversarial Learning	Lin Wang, Tae-Kyun Kim, Kuk-Jin Yoon	7715
98	14:00	02:00	Hierarchical Pyramid Diverse Attention Networks for Face Recognition	Qiangchang Wang, Tianyi Wu, He Zheng, Guodong Guo	7718
99	14:00	02:00	RGBD-Dog: Predicting Canine Pose from RGBD Sensors	Sinéad Kearney, Wenbin Li, Martin Parsons, Kwang In Kim, Darren Cosker	7752
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101	14:00	02:00	Learning a Neural 3D Texture Space From 2D Exemplars	Philipp Henzler, Niloy J. Mitra, Tobias Ritschel	7819
102	14:00	02:00	BachGAN: High-Resolution Image Synthesis From Salient Object Layout	Yandong Li, Yu Cheng, Zhe Gan, Licheng Yu, Liqiang Wang, Jingjing Liu	7923
103	14:00	02:00	Rethinking Data Augmentation for Image Super-resolution: A Comprehensive Analysis and a New Strategy	Jaejun Yoo, Namhyuk Ahn, Kyung-Ah Sohn	7962
104	14:00	02:00	On Positive-Unlabeled Classification in GAN	Tianyu Guo, Chang Xu, Jiajun Huang, Yunhe Wang, Boxin Shi, Chao Xu, Dacheng Tao	8010
105	14:00	02:00	DoveNet: Deep Image Harmonization via Domain Verification	Wenyan Cong, Jianfu Zhang, Li Niu, Liu Liu, Zhixin Ling, Weiyuan Li, Lining Zhang	8239

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116	14:00	02:00	Scale-Space Flow for End-to-End Optimized Video Compression	Eirikur Agustsson, David Minnen, Nick Johnston, Johannes Ballé, Sung Jin Hwang, George Toderici	9692
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Session: Oral 2.4A – Segmentation, Grouping and Shape (1)

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1	16:00	04:00	Real-Time Panoptic Segmentation From Dense Detections	Rui Hou, Jie Li, Arjun Bhargava, Allan Raventos, Vitor Guizilini, Chao Fang, Jerome Lynch, Adrien Gaidon	1628
2	16:05	04:05	Deep Snake for Real-Time Instance Segmentation	Sida Peng, Wen Jiang, Huaijin Pi, Xiuli Li, Hujun Bao, Xiaowei Zhou	2678

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3	16:10	04:10	AdaCoSeg: Adaptive Shape Co-Segmentation With Group Consistency Loss	Chenyang Zhu, Kai Xu, Siddhartha Chaudhuri, Li Yi, Leonidas J. Guibas, Hao Zhang	6607
4	16:15	04:15	Learning Dynamic Routing for Semantic Segmentation	Yanwei Li, Lin Song, Yukang Chen, Zeming Li, Xiangyu Zhang, Xingang Wang, Jian Sun	4255
5	16:20	04:20	Boosting Semantic Human Matting With Coarse Annotations	Jinlin Liu, Yuan Yao, Wendi Hou, Miaoqiao Cui, Xuansong Xie, Changshui Zhang, Xian-Sheng Hua	2302
6	16:25	04:25	BlendMask: Top-Down Meets Bottom-Up for Instance Segmentation	Hao Chen, Kunyang Sun, Zhi Tian, Chunhua Shen, Yongming Huang, Youliang Yan	5049
7	16:30	04:30	UC-Net: Uncertainty Inspired RGB-D Saliency Detection via Conditional Variational Autoencoders	Jing Zhang, Deng-Ping Fan, Yuchao Dai, Saeed Anwar, Fatemeh Sadat Saleh, Tong Zhang, Nick Barnes	2097
8	16:35	04:35	Deep Geometric Functional Maps: Robust Feature Learning for Shape Correspondence	Nicolas Donati, Abhishek Sharma, Maks Ovsjanikov	9046
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10	16:45	04:45	DualConvMesh-Net: Joint Geodesic and Euclidean Convolutions on 3D Meshes	Jonas Schult, Francis Engelmann, Theodora Kontogianni, Bastian Leibe	4514
11	16:50	04:50	F-BRS: Rethinking Backpropagating Refinement for Interactive Segmentation	Konstantin Sofiuk, Ilya Petrov, Olga Barinova, Anton Konushin	9681
12	16:55	04:55	Approximating shapes in images with low-complexity polygons	Muxingzi Li, Florent Lafarge, Renaud Marlet	8063

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Session: Oral 2.4B – Explainable AI; Fairness, Accountability, Transparency and Ethics in Vision

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13	16:00	04:00	Towards Visually Explaining Variational Autoencoders	Wenqian Liu, Runze Li, Meng Zheng, Srikrishna Karanam, Ziyan Wu, Bir Bhanu, Richard J. Radke, Octavia Camps	4310
14	16:05	04:05	Towards Global Explanations of Convolutional Neural Networks With Concept Attribution	Weibin Wu, Yuxin Su, Xixian Chen, Shenglin Zhao, Irwin King, Michael R. Lyu, Yu-Wing Tai	7321

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15	16:10	04:10	Interpretable and Accurate Fine-grained Recognition via Region Grouping	Zixuan Huang, Yin Li	10682
16	16:15	04:15	SAM: The Sensitivity of Attribution Methods to Hyperparameters	Naman Bansal, Chirag Agarwal, Anh Nguyen	10465
17	16:20	04:20	High-Frequency Component Helps Explain the Generalization of Convolutional Neural Networks	Haohan Wang, Xindi Wu, Zeyi Huang, Eric P. Xing	10190
18	16:25	04:25	CNN-Generated Images Are Surprisingly Easy to Spot... for Now	Sheng-Yu Wang, Oliver Wang, Richard Zhang, Andrew Owens, Alexei A. Efros	36
19	16:30	04:30	FALCON: A Fourier Transform Based Approach for Fast and Secure Convolutional Neural Network Predictions	Shaohua Li, Kaiping Xue, Bin Zhu, Chenkai Ding, Xindi Gao, David Wei, Tao Wan	7687

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Session: Oral 2.4C – Transfer/Low-Shot/Semi/Unsupervised Learning (2)

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21	16:05	04:05	Unsupervised Domain Adaptation via Structurally Regularized Deep Clustering	Hui Tang, Ke Chen, Kui Jia	4680
22	16:10	04:10	HyperSTAR: Task-Aware Hyperparameters for Deep Networks	Gaurav Mittal, Chang Liu, Nikolaos Karianakis, Victor Fragoso, Mei Chen, Yun Fu	6127
23	16:15	04:15	ActBERT: Learning Global-Local Video-Text Representations	Linchao Zhu, Yi Yang	7149
24	16:20	04:20	State-Relabeling Adversarial Active Learning	Beichen Zhang, Liang Li, Shijie Yang, Shuhui Wang, Zheng-Jun Zha, Qingming Huang	8784
25	16:25	04:25	Erasing Integrated Learning: A Simple Yet Effective Approach for Weakly Supervised Object Localization	Jinjie Mai, Meng Yang, Wenfeng Luo	5042
26	16:30	04:30	A Shared Multi-Attention Framework for Multi-Label Zero-Shot Learning	Dat Huynh, Ehsan Elhamifar	6368
27	16:35	04:35	Self-Supervised Learning of	Tomas Jakab, Ankush Gupta.	4288

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Date: Wednesday, June 17, 2020 **Q&A Time:** 1600–1800 and 0400–0600

Session: Poster 2.4 – Segmentation, Grouping and Shape; Explainable AI; Fairness, Accountability, Transparency and Ethics in Vision; Transfer/Low-Shot/Semi/Unsupervised Learning

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
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29	16:00	04:00	Few-Shot Learning via Embedding Adaptation With Set-to-Set Functions	Han-Jia Ye, Hexiang Hu, De-Chuan Zhan, Fei Sha	110
30	16:00	04:00	Temporally Distributed Networks for Fast Video Semantic Segmentation	Ping Hu, Fabian Caba, Oliver Wang, Zhe Lin, Stan Sclaroff, Federico Perazzi	125
31	16:00	04:00	Benchmarking the Robustness of Semantic Segmentation Models	Christoph Kamann, Carsten Rother	218
32	16:00	04:00	There and Back Again: Revisiting Backpropagation Saliency Methods	Sylvestre-Alvise Rebuffi, Ruth Fong, Xu Ji, Andrea Vedaldi	232
33	16:00	04:00	Deep Semantic Clustering by Partition Confidence Maximisation	Jiabo Huang, Shaogang Gong, Xiatian Zhu	392
34	16:00	04:00	StructEdit: Learning Structural Shape Variations	Kaichun Mo, Paul Guerrero, Li Yi, Hao Su, Peter Wonka, Niloy J. Mitra, Leonidas J. Guibas	512
35	16:00	04:00	Harmonizing Transferability and Discriminability for Adapting Object Detectors	Chaoqi Chen, Zebiao Zheng, Xinghao Ding, Yue Huang, Qi Dou	520
36	16:00	04:00	Fast Video Object Segmentation With Temporal Aggregation Network and Dynamic Template Matching	Xuhua Huang, Jiarui Xu, Yu-Wing Tai, Chi-Keung Tang	571
37	16:00	04:00	CascadePSP: Toward Class-Agnostic and Very High-Resolution Segmentation via Global and Local Refinement	Ho Kei Cheng, Jihoon Chung, Yu-Wing Tai, Chi-Keung Tang	572
38	16:00	04:00	Correlating Edge, Pose With Parsing	Ziwei Zhang, Chi Su, Liang Zheng, Xiaodong Xie	636
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40	16:00	04:00	Towards Fairness in Visual Recognition: Effective Strategies for Bias Mitigation	Zeyu Wang, Klint Qinami, Ioannis Christos Karakozis, Kyle Genova, Prem Nair, Kenji Hata, Olga Russakovsky	823
41	16:00	04:00	Hierarchical Human Parsing With Typed Part-Relation Reasoning	Wenguan Wang, Hailong Zhu, Jifeng Dai, Yanwei Pang, Jianbing Shen, Ling Shao	1092

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44	16:00	04:00	Learning Video Object Segmentation From Unlabeled Videos	Xiankai Lu, Wenguan Wang, Jianbing Shen, Yu-Wing Tai, David J. Crandall, Steven C. H. Hoi	1308
45	16:00	04:00	Part-Aware Context Network for Human Parsing	Xiaomei Zhang, Yingying Chen, Bingke Zhu, Jinqiao Wang, Ming Tang	1499
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54	16:00	04:00	A2dele: Adaptive and Attentive Depth Distiller for Efficient RGB-D Salient Object Detection	Yongri Piao, Zhengkun Rong, Miao Zhang, Weisong Ren, Huchuan Lu	2628
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110	16:00	04:00	Transferring and Regularizing Prediction for Semantic Segmentation	Yiheng Zhang, Zhaofan Qiu, Ting Yao, Chong-Wah Ngo, Dong Liu, Tao Mei	9265
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112	16:00	04:00	Model Adaptation: Unsupervised Domain Adaptation Without Source Data	Rui Li, Qianfen Jiao, Wenming Cao, Hau-San Wong, Si Wu	9388
113	16:00	04:00	Evade Deep Image Retrieval by Stashing Private Images in the Hash Space	Yanru Xiao, Cong Wang, Xing Gao	9451
114	16:00	04:00	Advisable Learning for Self-Driving Vehicles by Internalizing Observation-to-Action Rules	Jinkyu Kim, Suhong Moon, Anna Rohrbach, Trevor Darrell, John Canny	9452
115	16:00	04:00	ProAlignNet: Unsupervised Learning for Progressively Aligning Noisy Contours	VSR Veeravasarapu, Abhishek Goel, Deepak Mittal, Maneesh Singh	9614
116	16:00	04:00	Attribution in Scale and Space	Shawn Xu, Subhashini Venugopalan, Mukund Sundararajan	9748
117	16:00	04:00	Towards Causal VQA: Revealing and Reducing Spurious Correlations by Invariant and Covariant Semantic Editing	Vedika Agarwal, Rakshith Shetty, Mario Fritz	9761

Date: Thursday, June 18, 2020 **Q&A Time:** 0900–1100 and 2100–2300

Session: Oral 3.1A — Recognition (Detection, Categorization) (1)

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Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	09:00	21:00	Deep Relational Reasoning Graph Network for Arbitrary Shape Text Detection	Shi-Xue Zhang, Xiaobin Zhu, Jie-Bo Hou, Chang Liu, Chun Yang, Hongfa Wang, Xu-Cheng Yin	5963
2	09:05	21:05	Large-Scale Object Detection in the Wild From Imbalanced Multi-Labels	Junran Peng, Xingyuan Bu, Ming Sun, Zhaoxiang Zhang, Tieniu Tan, Junjie Yan	4904
3	09:10	21:10	BBN: Bilateral-Branch Network With Cumulative Learning for Long-Tailed Visual Recognition	Boyan Zhou, Quan Cui, Xiu-Shen Wei, Zhao-Min Chen	5147
4	09:15	21:15	Momentum Contrast for Unsupervised Visual Representation Learning	Kaiming He, Haoqi Fan, Yuxin Wu, Saining Xie, Ross Girshick	312
5	09:20	21:20	Classifying, Segmenting, and Tracking Object Instances in Video with Mask Propagation	Gedas Bertasius, Lorenzo Torresani	7757
6	09:25	21:25	Weakly Supervised Fine-Grained Image Classification via Gaussian Mixture Model Oriented Discriminative Learning	Zihui Wang, Shijie Wang, Shuhui Yang, Haojie Li, Jianjun Li, Zezhou Li	6037
7	09:30	21:30	Bridging the Gap Between Anchor-Based and Anchor-Free Detection via Adaptive Training Sample Selection	Shifeng Zhang, Cheng Chi, Yongqiang Yao, Zhen Lei, Stan Z. Li	106
8	09:35	21:35	Learning User Representations for Open Vocabulary Image Hashtag Prediction	Thibaut Durand	56
9	09:40	21:40	Sketch Less for More: On-the-Fly Fine-Grained Sketch-Based Image Retrieval	Ayan Kumar Bhunia, Yongxin Yang, Timothy M. Hospedales, Tao Xiang, Yi-Zhe Song	4367
10	09:45	21:45	Few-Shot Pill Recognition	Suiyi Ling, Andréas Pastor, Jing Li, Zhaojun Che, Junle Wang, Jieun Kim, Patrick Le Callet	2119
11	09:50	21:50	PointRend: Image Segmentation As Rendering	Alexander Kirillov, Yuxin Wu, Kaiming He, Ross Girshick	833
12	09:55	21:55	ABCNet: Real-Time Scene Text Spotting With Adaptive Bezier-Curve Network	Yuliang Liu, Hao Chen, Chunhua Shen, Tong He, Lianwen Jin, Liangwei Wang	2733

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Session: Oral 3.1B – Video Analysis and Understanding

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13	09:00	21:00	Learning Temporal Co-	Guoqiang Gong, Xinghan	5782

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14	09:05	21:05	Spatiotemporal Fusion in 3D CNNs: A Probabilistic View	Yizhou Zhou, Xiaoyan Sun, Chong Luo, Zheng-Jun Zha, Wenjun Zeng	1694
15	09:10	21:10	Uncertainty-Aware Score Distribution Learning for Action Quality Assessment	Yansong Tang, Zanlin Ni, Jiahuan Zhou, Danyang Zhang, Jiwen Lu, Ying Wu, Jie Zhou	1173
16	09:15	21:15	Learning Interactions and Relationships Between Movie Characters	Anna Kukleva, Makarand Tapaswi, Ivan Laptev	2218
17	09:20	21:20	Video Panoptic Segmentation	Dahun Kim, Sanghyun Woo, Joon-Young Lee, In So Kweon	5785
18	09:25	21:25	Understanding Human Hands in Contact at Internet Scale	Dandan Shan, Jiaqi Geng, Michelle Shu, David F. Fouhey	1616
19	09:30	21:30	End-to-End Learning of Visual Representations From Uncurated Instructional Videos	Antoine Miech, Jean-Baptiste Alayrac, Lucas Smaira, Ivan Laptev, Josef Sivic, Andrew Zisserman	2151
20	09:35	21:35	You2Me: Inferring Body Pose in Egocentric Video via First and Second Person Interactions	Evonne Ng, Donglai Xiang, Hanbyul Joo, Kristen Grauman	1792
21	09:40	21:40	Learning a Weakly-Supervised Video Actor-Action Segmentation Model With a Wise Selection	Jie Chen, Zhiheng Li, Jiebo Luo, Chenliang Xu	2961
22	09:45	21:45	Learning to Measure the Static Friction Coefficient in Cloth Contact	Abdullah Haroon Rasheed, Victor Romero, Florence Bertails-Descoubes, Stefanie Wuhrer, Jean-Sebastien Franco, Arnaud Lazarus	5221
23	09:50	21:50	SpeedNet: Learning the Speediness in Videos	Sagie Benaim, Ariel Ephrat, Oran Lang, Inbar Mosseri, William T. Freeman, Michael Rubinstein, Michal Irani, Tali Dekel	7329
24	09:55	21:55	Telling Left From Right: Learning Spatial Correspondence of Sight and Sound	Karren Yang, Bryan Russell, Justin Salomon	7612

Date: Thursday, June 18, 2020 **Q&A Time:** 0900–1100 and 2100–2300

Session: Oral 3.1C – Vision & Language

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
25	09:00	21:00	Visual-Textual Capsule Routing for Text-Based Video Segmentation	Bruce McIntosh, Kevin Duarte, Yogesh S Rawat, Mubarak Shah	8523
26	09:05	21:05	Graph-Structured Referring Expression Reasoning in the Wild	Sibei Yang, Guanbin Li, Yizhou Yu	2703

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27	09:10	21:10	Say As You Wish: Fine-Grained Control of Image Caption Generation With Abstract Scene Graphs	Shizhe Chen, Qin Jin, Peng Wang, Qi Wu	115
28	09:15	21:15	Hierarchical Conditional Relation Networks for Video Question Answering	Thao Minh Le, Vuong Le, Svetha Venkatesh, Truyen Tran	6600
29	09:20	21:20	REVERIE: Remote Embodied Visual Referring Expression in Real Indoor Environments	Yuankai Qi, Qi Wu, Peter Anderson, Xin Wang, William Yang Wang, Chunhua Shen, Anton van den Hengel	91
30	09:25	21:25	Iterative Answer Prediction With Pointer-Augmented Multimodal Transformers for TextVQA	Ronghang Hu, Amanpreet Singh, Trevor Darrell, Marcus Rohrbach	2429
31	09:30	21:30	SQuINTing at VQA Models: Introspecting VQA Models With Sub-Questions	Ramprasaath R. Selvaraju, Purva Tendulkar, Devi Parikh, Eric Horvitz, Marco Tulio Ribeiro, Besmira Nushi, Ece Kamar	1939
32	09:35	21:35	Vision-Language Navigation With Self-Supervised Auxiliary Reasoning Tasks	Fengda Zhu, Yi Zhu, Xiaojun Chang, Xiaodan Liang	4322
33	09:40	21:40	Sign Language Transformers: Joint End-to-End Sign Language Recognition and Translation	Necati Cihan Camgöz, Oscar Koller, Simon Hadfield, Richard Bowden	289
34	09:45	21:45	Multi-Task Collaborative Network for Joint Referring Expression Comprehension and Segmentation	Gen Luo, Yiyi Zhou, Xiaoshuai Sun, Liujuan Cao, Chenglin Wu, Cheng Deng, Rongrong Ji	1835
35	09:50	21:50	Counterfactual Vision and Language Learning	Ehsan Abbasnejad, Damien Teney, Amin Parvaneh, Javen Shi, Anton van den Hengel	9848
36	09:55	21:55	Iterative Context-Aware Graph Inference for Visual Dialog	Dan Guo, Hui Wang, Hanwang Zhang, Zheng-Jun Zha, Meng Wang	6258
37	10:00	22:00	TA-Student VQA: Multi-Agents Training by Self-Questioning	Peixi Xiong, Ying Wu	798

Date: Thursday, June 18, 2020 **Q&A Time:** 0900–1100 and 2100–2300

Session: Poster 3.1 – Recognition (Detection, Categorization); Video Analysis and Understanding; Vision + Language

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
38	09:00	21:00	Exploring Self-Attention for Image Recognition	Hengshuang Zhao, Jiaya Jia, Vladlen Koltun	119
39	09:00	21:00	Cops-Ref: A New Dataset and Task on Compositional Referring Expression Comprehension	Zhenfang Chen, Peng Wang, Lin Ma, Kwan-Yee K. Wong, Qi Wu	206

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40	09:00	21:00	Improving Convolutional Networks With Self-Calibrated Convolutions	Jiang-Jiang Liu, Qibin Hou, Ming-Ming Cheng, Changhu Wang, Jiashi Feng	240
41	09:00	21:00	Modality Shifting Attention Network for Multi-Modal Video Question Answering	Junyeong Kim, Minuk Ma, Trung Pham, Kyungsu Kim, Chang D. Yoo	428
42	09:00	21:00	Learning to Structure an Image With Few Colors	Yunzhong Hou, Liang Zheng, Stephen Gould	437
43	09:00	21:00	On the General Value of Evidence, and Bilingual Scene-Text Visual Question Answering	Xinyu Wang, Yuliang Liu, Chunhua Shen, Chun Chet Ng, Canjie Luo, Lianwen Jin, Chee Seng Chan, Anton van den Hengel, Liangwei Wang	459
44	09:00	21:00	From Paris to Berlin: Discovering Fashion Style Influences Around the World	Ziad Al-Halah, Kristen Grauman	475
45	09:00	21:00	A Local-to-Global Approach to Multi-Modal Movie Scene Segmentation	Anyi Rao, Linning Xu, Yu Xiong, Guodong Xu, Qingqiu Huang, Bolei Zhou, Dahua Lin	524
46	09:00	21:00	G-TAD: Sub-Graph Localization for Temporal Action Detection	Mengmeng Xu, Chen Zhao, David S. Rojas, Ali Thabet, Bernard Ghanem	576
47	09:00	21:00	Detailed 2D-3D Joint Representation for Human-Object Interaction	Yong-Lu Li, Xinpeng Liu, Han Lu, Shiyi Wang, Junqi Liu, Jiefeng Li, Cewu Lu	578
48	09:00	21:00	One-Shot Adversarial Attacks on Visual Tracking With Dual Attention	Xuesong Chen, Xiyu Yan, Feng Zheng, Yong Jiang, Shu-Tao Xia, Yong Zhao, Rongrong Ji	675
49	09:00	21:00	Rethinking Classification and Localization for Object Detection	Yue Wu, Yinpeng Chen, Lu Yuan, Zicheng Liu, Lijuan Wang, Hongzhi Li, Yun Fu	685
50	09:00	21:00	Correspondence Networks With Adaptive Neighbourhood Consensus	Shuda Li, Kai Han, Theo W. Costain, Henry Howard-Jenkins, Victor Prisacariu	689
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52	09:00	21:00	PhraseCut: Language-Based Image Segmentation in the Wild	Chenyun Wu, Zhe Lin, Scott Cohen, Trung Bui, Subhransu Maji	781
53	09:00	21:00	Mask Encoding for Single Shot Instance Segmentation	Rufeng Zhang, Zhi Tian, Chunhua Shen, Mingyu You, Youliang Yan	815
54	09:00	21:00	Action Genome: Actions As Compositions of Spatio-Temporal Scene Graphs	Jingwei Ji, Ranjay Krishna, Li Fei-Fei, Juan Carlos Niebles	900
55	09:00	21:00	Learning Unseen Concepts via Hierarchical Decomposition and Composition	Muli Yang, Cheng Deng, Junchi Yan, Xianglong Liu, Dacheng Tao	939
56	09:00	21:00	Hi-CMD: Hierarchical Cross-Modality Disentanglement	Seokeon Choi, Sumin Lee, Youngeun Kim, Taekyung	940

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57	09:00	21:00	In Defense of Grid Features for Visual Question Answering	Huazu Jiang, Ishan Misra, Marcus Rohrbach, Erik Learned-Miller, Xinlei Chen	1175
58	09:00	21:00	Multi-Mutual Consistency Induced Transfer Subspace Learning for Human Motion Segmentation	Tao Zhou, Huazhu Fu, Chen Gong, Jianbing Shen, Ling Shao, Fatih Porikli	1212
59	09:00	21:00	Dense Regression Network for Video Grounding	Runhao Zeng, Haoming Xu, Wenbing Huang, Peihao Chen, Mingkui Tan, Chuang Gan	1227
60	09:00	21:00	Neural Architecture Search for Lightweight Non-Local Networks	Yingwei Li, Xiaojie Jin, Jieru Mei, Xiaochen Lian, Linjie Yang, Cihang Xie, Qihang Yu, Yuyin Zhou, Song Bai, Alan L. Yuille	1328
61	09:00	21:00	Learning Saliency Propagation for Semi-Supervised Instance Segmentation	Yanzhao Zhou, Xin Wang, Jianbin Jiao, Trevor Darrell, Fisher Yu	1361
62	09:00	21:00	Speech2Action: Cross-Modal Supervision for Action Recognition	Arsha Nagrani, Chen Sun, David Ross, Rahul Sukthankar, Cordelia Schmid, Andrew Zisserman	1426
63	09:00	21:00	Normalized and Geometry-Aware Self-Attention Network for Image Captioning	Longteng Guo, Jing Liu, Xinxin Zhu, Peng Yao, Shichen Lu, Hanqing Lu	1648
64	09:00	21:00	Memory Enhanced Global-Local Aggregation for Video Object Detection	Yihong Chen, Yue Cao, Han Hu, Liwei Wang	1696
65	09:00	21:00	Solving Mixed-Modal Jigsaw Puzzle for Fine-Grained Sketch-Based Image Retrieval	Kaiyue Pang, Yongxin Yang, Timothy M. Hospedales, Tao Xiang, Yi-Zhe Song	1700
66	09:00	21:00	LG-GAN: Label Guided Adversarial Network for Flexible Targeted Attack of Point Cloud Based Deep Networks	Hang Zhou, Dongdong Chen, Jing Liao, Kejiang Chen, Xiaoyi Dong, Kunlin Liu, Weiming Zhang, Gang Hua, Nenghai Yu	1706
67	09:00	21:00	Memory Aggregation Networks for Efficient Interactive Video Object Segmentation	Jiaxu Miao, Yunchao Wei, Yi Yang	1836
68	09:00	21:00	VQA With No Questions-Answers Training	Ben-Zion Vatashsky, Shimon Ullman	1847
69	09:00	21:00	Counting Out Time: Class Agnostic Video Repetition Counting in the Wild	Debidatta Dwibedi, Yusuf Aytar, Jonathan Tompson, Pierre Sermanet, Andrew Zisserman	1854
70	09:00	21:00	SaccadeNet: A Fast and Accurate Object Detector	Shiyi Lan, Zhou Ren, Yi Wu, Larry S. Davis, Gang Hua	2037
71	09:00	21:00	Multi-Granularity Reference-Aided Attentive Feature	Zhizheng Zhang, Cuiling Lan, Wenjun Zeng, Zhibo Chen	2040

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73	09:00	21:00	Designing Network Design Spaces	Ilija Radosavovic, Raj Prateek Kosaraju, Ross Girshick, Kaiming He, Piotr Dollár	2170
74	09:00	21:00	12-in-1: Multi-Task Vision and Language Representation Learning	Jiasen Lu, Vedanuj Goswami, Marcus Rohrbach, Devi Parikh, Stefan Lee	2172
75	09:00	21:00	MLCVNet: Multi-Level Context VoteNet for 3D Object Detection	Qian Xie, Yu-Kun Lai, Jing Wu, Zhoutao Wang, Yiming Zhang, Kai Xu, Jun Wang	2256
76	09:00	21:00	Listen to Look: Action Recognition by Previewing Audio	Ruhan Gao, Tae-Hyun Oh, Kristen Grauman, Lorenzo Torresani	2275
77	09:00	21:00	Attention Convolutional Binary Neural Tree for Fine-Grained Visual Categorization	Ruyi Ji, Longyin Wen, Libo Zhang, Dawei Du, Yanjun Wu, Chen Zhao, Xianglong Liu, Feiyue Huang	2298
78	09:00	21:00	Music Gesture for Visual Sound Separation	Chuang Gan, Deng Huang, Hang Zhao, Joshua B. Tenenbaum, Antonio Torralba	2371
79	09:00	21:00	Referring Image Segmentation via Cross-Modal Progressive Comprehension	Shaofei Huang, Tianrui Hui, Si Liu, Guanbin Li, Yunchao Wei, Jizhong Han, Luoqi Liu, Bo Li	2428
80	09:00	21:00	Cloth in the Wind: A Case Study of Physical Measurement Through Simulation	Tom F. H. Runia, Kirill Gavrilyuk, Cees G. M. Snoek, Arnold W. M. Smeulders	2463
81	09:00	21:00	The Garden of Forking Paths: Towards Multi-Future Trajectory Prediction	Junwei Liang, Lu Jiang, Kevin Murphy, Ting Yu, Alexander Hauptmann	2474
82	09:00	21:00	CentripetalNet: Pursuing High-Quality Keypoint Pairs for Object Detection	Zhiwei Dong, Guoxuan Li, Yue Liao, Fei Wang, Pengju Ren, Chen Qian	2531
83	09:00	21:00	PV-RCNN: Point-Voxel Feature Set Abstraction for 3D Object Detection	Shaoshuai Shi, Chaoxu Guo, Li Jiang, Zhe Wang, Jianping Shi, Xiaogang Wang, Hongsheng Li	2536
84	09:00	21:00	Graph Embedded Pose Clustering for Anomaly Detection	Amir Markovitz, Gilad Sharir, Itamar Friedman, Lihi Zelnik-Manor, Shai Avidan	2567
85	09:00	21:00	Disp R-CNN: Stereo 3D Object Detection via Shape Prior Guided Instance Disparity Estimation	Jiaming Sun, Linghao Chen, Yiming Xie, Siyu Zhang, Qinrong Jiang, Xiaowei Zhou, Hujun Bao	2674
86	09:00	21:00	Deepstrip: High-Resolution Boundary Refinement	Peng Zhou, Brian Price, Scott Cohen, Gregg Wilensky, Larry S. Davis	2738
87	09:00	21:00	Smoothing Adversarial Domain Attack and P-Memory Reconsolidation for Cross-Domain Person Re-	Guangcong Wang, Jian-Huang Lai, Wenqi Liang, Guangrun Wang	2743

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88	09:00	21:00	Meshed-Memory Transformer for Image Captioning	Marcella Cornia, Matteo Stefanini, Lorenzo Baraldi, Rita Cucchiara	2810
89	09:00	21:00	Learning From Noisy Anchors for One-Stage Object Detection	Hengduo Li, Zuxuan Wu, Chen Zhu, Caiming Xiong, Richard Socher, Larry S. Davis	2824
90	09:00	21:00	Instance-Aware, Context-Focused, and Memory-Efficient Weakly Supervised Object Detection	Zhongzheng Ren, Zhiding Yu, Xiaodong Yang, Ming-Yu Liu, Yong Jae Lee, Alexander G. Schwing, Jan Kautz	2838
91	09:00	21:00	Density-Based Clustering for 3D Object Detection in Point Clouds	Syeda Mariam Ahmed, Chee Meng Chew	2873
92	09:00	21:00	Few-Shot Video Classification via Temporal Alignment	Kaidi Cao, Jingwei Ji, Zhangjie Cao, Chien-Yi Chang, Juan Carlos Niebles	2878
93	09:00	21:00	Densely Connected Search Space for More Flexible Neural Architecture Search	Jiemin Fang, Yuzhu Sun, Qian Zhang, Yuan Li, Wenyu Liu, Xinggang Wang	2921
94	09:00	21:00	Fine-Grained Video-Text Retrieval With Hierarchical Graph Reasoning	Shizhe Chen, Yida Zhao, Qin Jin, Qi Wu	2927
95	09:00	21:00	Warp to the Future: Joint Forecasting of Features and Feature Motion	Josip Šarić, Marin Oršić, Tonči Antunović, Sacha Vražić, Siniša Šegvić	3076
96	09:00	21:00	Network Adjustment: Channel Search Guided by FLOPs Utilization Ratio	Zhengsu Chen, Jianwei Niu, Lingxi Xie, Xuefeng Liu, Longhui Wei, Qi Tian	3127
97	09:00	21:00	Where Does It Exist: Spatio-Temporal Video Grounding for Multi-Form Sentences	Zhu Zhang, Zhou Zhao, Yang Zhao, Qi Wang, Huasheng Liu, Lianli Gao	3138
98	09:00	21:00	Cross-Modal Cross-Domain Moment Alignment Network for Person Search	Ya Jing, Wei Wang, Liang Wang, Tieniu Tan	4270
99	09:00	21:00	Self-Training With Noisy Student Improves ImageNet Classification	Qizhe Xie, Minh-Thang Luong, Eduard Hovy, Quoc V. Le	4286
100	09:00	21:00	Learning Longterm Representations for Person Re-Identification Using Radio Signals	Lijie Fan, Tianhong Li, Rongyao Fang, Rumen Hristov, Yuan Yuan, Dina Katabi	4291
101	09:00	21:00	LatentFusion: End-to-End Differentiable Reconstruction and Rendering for Unseen Object Pose Estimation	Keunhong Park, Arsalan Mousavian, Yu Xiang, Dieter Fox	4295
102	09:00	21:00	Learning Instance Occlusion for Panoptic Segmentation	Justin Lazarow, Kwonjoon Lee, Kunyu Shi, Zhuowen Tu	4302
103	09:00	21:00	Vision-Dialog Navigation by Exploring Cross-Modal Memory	Yi Zhu, Fengda Zhu, Zhaohan Zhan, Bingqian Lin, Jianbin Jiao, Xiaojun Chang, Xiaodan Liang	4321

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104	09:00	21:00	ALFRED: A Benchmark for Interpreting Grounded Instructions for Everyday Tasks	Mohit Shridhar, Jesse Thomason, Daniel Gordon, Yonatan Bisk, Winson Han, Roozbeh Mottaghi, Luke Zettlemoyer, Dieter Fox	4325
105	09:00	21:00	NMS by Representative Region: Towards Crowded Pedestrian Detection by Proposal Pairing	Xin Huang, Zheng Ge, Zequn Jie, Osamu Yoshie	4335
106	09:00	21:00	Visual Commonsense R-CNN	Tan Wang, Jianqiang Huang, Hanwang Zhang, Qianru Sun	4361
107	09:00	21:00	What Deep CNNs Benefit From Global Covariance Pooling: An Optimization Perspective	Qilong Wang, Li Zhang, Banggu Wu, Dongwei Ren, Peihua Li, Wangmeng Zuo, Qinghua Hu	4421
108	09:00	21:00	EfficientDet: Scalable and Efficient Object Detection	Mingxing Tan, Ruoming Pang, Quoc V. Le	4450
109	09:00	21:00	Fast Template Matching and Update for Video Object Tracking and Segmentation	Mingjie Sun, Jimin Xiao, Eng Gee Lim, Bingfeng Zhang, Yao Zhao	4577
110	09:00	21:00	Counterfactual Samples Synthesizing for Robust Visual Question Answering	Long Chen, Xin Yan, Jun Xiao, Hanwang Zhang, Shiliang Pu, Yueling Zhuang	4748
111	09:00	21:00	Local-Global Video-Text Interactions for Temporal Grounding	Jonghwan Mun, Minsu Cho, Bohyung Han	5539
112	09:00	21:00	Set-Constrained Viterbi for Set-Supervised Action Segmentation	Jun Li, Sinisa Todorovic	5585
113	09:00	21:00	Probabilistic Video Prediction From Noisy Data With a Posterior Confidence	Yunbo Wang, Jiajun Wu, Mingsheng Long, Joshua B. Tenenbaum	5644
114	09:00	21:00	Beyond Short-Term Snippet: Video Relation Detection With Spatio-Temporal Global Context	Chenchen Liu, Yang Jin, Kehan Xu, Guoqiang Gong, Yadong Mu	5784
115	09:00	21:00	Visual Grounding in Video for Unsupervised Word Translation	Gunnar A. Sigurdsson, Jean-Baptiste Alayrac, Aida Nematzadeh, Lucas Smaira, Mateusz Malinowski, João Carreira, Phil Blunsom, Andrew Zisserman	5854
116	09:00	21:00	Two Causal Principles for Improving Visual Dialog	Jiaxin Qi, Yulei Niu, Jianqiang Huang, Hanwang Zhang	5914
117	09:00	21:00	Spatio-Temporal Graph for Video Captioning With Knowledge Distillation	Boxiao Pan, Haoye Cai, De-An Huang, Kuan-Hui Lee, Adrien Gaidon, Ehsan Adeli, Juan Carlos Niebles	6410
118	09:00	21:00	A Real-Time Cross-Modality Correlation Filtering Method for Referring Expression Comprehension	Yue Liao, Si Liu, Guanbin Li, Fei Wang, Yanjie Chen, Chen Qian, Bo Li	6609
119	09:00	21:00	Better Captioning With Sequential-level Exploration	Jia Chen, Qin Jin	7022

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120	09:00	21:00	Violin: A Large-Scale Dataset for Video-and-Language Inference	Jingzhou Liu, Wenhui Chen, Yu Cheng, Zhe Gan, Licheng Yu, Yiming Yang, Jingjing Liu	7959
121	09:00	21:00	RiFeGAN: Rich Feature Generation for Text-to-Image Synthesis From Prior Knowledge	Jun Cheng, Fuxiang Wu, Yanling Tian, Lei Wang, Dapeng Tao	9000
122	09:00	21:00	Graph Structured Network for Image-Text Matching	Chunxiao Liu, Zhendong Mao, Tianzhu Zhang, Hongtao Xie, Bin Wang, Yongdong Zhang	9029
123	09:00	21:00	Straight to the Point: Fast-Forwarding Videos via Reinforcement Learning Using Textual Data	Washington Ramos, Michel Silva, Edson Araujo, Leandro Soriano Marcolino, Erickson Nascimento	9054
124	09:00	21:00	Multi-Modality Cross Attention Network for Image and Sentence Matching	Xi Wei, Tianzhu Zhang, Yan Li, Yongdong Zhang, Feng Wu	9378
125	09:00	21:00	Generalized ODIN: Detecting Out-of-Distribution Image Without Learning From Out-of-Distribution Data	Yen-Chang Hsu, Yilin Shen, Hongxia Jin, Zsolt Kira	9419
126	09:00	21:00	Learning Augmentation Network via Influence Functions	Donghoon Lee, Hyunsin Park, Trung Pham, Chang D. Yoo	9605
127	09:00	21:00	X-Linear Attention Networks for Image Captioning	Yingwei Pan, Ting Yao, Yehao Li, Tao Mei	9683

Date: Thursday, June 18, 2020 **Q&A Time:** 1100–1300 and 2300–0100

Session: Oral 3.2A – Recognition (Detection, Categorization) (2)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	11:00	23:00	Unsupervised Person Re-Identification via Multi-Label Classification	Dongkai Wang, Shiliang Zhang	7575
2	11:05	23:05	Overcoming Classifier Imbalance for Long-Tail Object Detection With Balanced Group Softmax	Yu Li, Tao Wang, Bingyi Kang, Sheng Tang, Chunfeng Wang, Jintao Li, Jiashi Feng	4578
3	11:10	23:10	What You See is What You Get: Exploiting Visibility for 3D Object Detection	Peiyun Hu, Jason Ziglar, David Held, Deva Ramanan	8111
4	11:15	23:15	Deep Structure-Revealed Network for Texture Recognition	Wei Zhai, Yang Cao, Zheng-Jun Zha, HaiYong Xie, Feng Wu	5460
5	11:20	23:20	Online Knowledge Distillation via Collaborative Learning	Qiushan Guo, Xinjiang Wang, Yichao Wu, Zhipeng Yu, Ding Liang, Xiaolin Hu, Ping Luo	6687
6	11:25	23:25	Dynamic Convolution: Attention Over Convolution	Yinpeng Chen, Xiyang Dai, Mengchen Liu, Dongdong	5057

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7	11:30	23:30	3DSSD: Point-Based 3D Single Stage Object Detector	Zetong Yang, Yanan Sun, Shu Liu, Jiaya Jia	4712
8	11:35	23:35	Deep Degradation Prior for Low-Quality Image Classification	Yang Wang, Yang Cao, Zheng-Jun Zha, Jing Zhang, Zhiwei Xiong	9945
9	11:40	23:40	ViBE: Dressing for Diverse Body Shapes	Wei-Lin Hsiao, Kristen Grauman	1273
10	11:45	23:45	Don't Judge an Object by Its Context: Learning to Overcome Contextual Bias	Krishna Kumar Singh, Dhruv Mahajan, Kristen Grauman, Yong Jae Lee, Matt Feiszli, Deepti Ghadiyaram	6220
11	11:50	23:50	SESS: Self-Ensembling Semi-Supervised 3D Object Detection	Na Zhao, Tat-Seng Chua, Gim Hee Lee	7685
12	11:55	23:55	Combining Detection and Tracking for Human Pose Estimation in Videos	Manchen Wang, Joseph Tighe, Davide Modolo	7862

Date: Thursday, June 18, 2020 **Q&A Time:** 1100–1300 and 2300–0100

Session: Oral 3.2B – Vision for Robotics and Autonomous Vehicles

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
13	11:00	23:00	SAPIEN: A SimulAted Part-Based Interactive ENvironment	Fanbo Xiang, Yuzhe Qin, Kaichun Mo, Yikuan Xia, Hao Zhu, Fangchen Liu, Minghua Liu, Hanxiao Jiang, Yifu Yuan, He Wang, Li Yi, Angel X. Chang, Leonidas J. Guibas, Hao Su	511
14	11:05	23:05	RandLA-Net: Efficient Semantic Segmentation of Large-Scale Point Clouds	Qingyong Hu, Bo Yang, Linhai Xie, Stefano Rosa, Yulan Guo, Zhihua Wang, Niki Trigoni, Andrew Markham	8374
15	11:10	23:10	SurfelGAN: Synthesizing Realistic Sensor Data for Autonomous Driving	Zhenpei Yang, Yuning Chai, Dragomir Anguelov, Yin Zhou, Pei Sun, Dumitru Erhan, Sean Rafferty, Henrik Kretzschmar	6266
16	11:15	23:15	A Programmatic and Semantic Approach to Explaining and Debugging Neural Network Based Object Detectors	Edward Kim, Divya Gopinath, Corina Păsăreanu, Sanjit A. Seshia	8979
17	11:20	23:20	Predicting Semantic Map Representations From Images Using Pyramid Occupancy Networks	Thomas Roddick, Roberto Cipolla	2361
18	11:25	23:25	Efficient Derivative Computation for Cumulative B-Splines on Lie Groups	Christiane Sommer, Vladyslav Usenko, David Schubert, Nikolaus Demmel, Daniel Cremers	7746
19	11:30	23:30	RL-CycleGAN:	Kanishka Rao, Chris Harris.	9770

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20	11:35	23:35	LiDARsim: Realistic LiDAR Simulation by Leveraging the Real World	Sivabalan Manivasagam, Shenlong Wang, Kelvin Wong, Wenyuan Zeng, Mikita Sazanovich, Shuhan Tan, Bin Yang, Wei-Chiu Ma, Raquel Urtasun	612
21	11:40	23:40	Just Go With the Flow: Self-Supervised Scene Flow Estimation	Himangi Mittal, Brian Okorn, David Held	9651
22	11:45	23:45	TITAN: Future Forecast Using Action Priors	Srikanth Malla, Behzad Dariush, Chiho Choi	7874

Date: Thursday, June 18, 2020 **Q&A Time:** 1100–1300 and 2300–0100

Session: Oral 3.2C – Machine Learning Architectures and Formulations

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
23	11:00	23:00	Robust Learning Through Cross-Task Consistency	Amir R. Zamir, Alexander Sax, Nikhil Cheerla, Rohan Suri, Zhangjie Cao, Jitendra Malik, Leonidas J. Guibas	7888
24	11:05	23:05	Dynamic Refinement Network for Oriented and Densely Packed Object Detection	Xingjia Pan, Yuqiang Ren, Kekai Sheng, Weiming Dong, Haolei Yuan, Xiaowei Guo, Chongyang Ma, Changsheng Xu	8906
25	11:10	23:10	AOWS: Adaptive and Optimal Network Width Search With Latency Constraints	Maxim Berman, Leonid Pishchulin, Ning Xu, Matthew B. Blaschko, Gérard Medioni	2006
26	11:15	23:15	High-Dimensional Convolutional Networks for Geometric Pattern Recognition	Christopher Choy, Junha Lee, René Ranftl, Jaesik Park, Vladlen Koltun	1831
27	11:20	23:20	Filter Response Normalization Layer: Eliminating Batch Dependence in the Training of Deep Neural Networks	Saurabh Singh, Shankar Krishnan	1059
28	11:25	23:25	Deep Iterative Surface Normal Estimation	Jan Eric Lenssen, Christian Osendorfer, Jonathan Masci	6622
29	11:30	23:30	Dataless Model Selection With the Deep Frame Potential	Calvin Murdock, Simon Lucey	7058
30	11:35	23:35	UNAS: Differentiable Architecture Search Meets Reinforcement Learning	Arash Vahdat, Arun Mallya, Ming-Yu Liu, Jan Kautz	7848
31	11:40	23:40	Local Context Normalization: Revisiting Local Normalization	Anthony Ortiz, Caleb Robinson, Dan Morris, Olac Fuentes, Christopher Kiekintveld, Md Mahmudulla Hassan, Nebojsa Jojic	6440

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Session: Poster 3.2 – Recognition (Detection, Categorization); Vision for Robotics and Autonomous Vehicles; Machine Learning Architectures and Formulations

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
32	11:00	23:00	ACNe: Attentive Context Normalization for Robust Permutation-Equivariant Learning	Weiwei Sun, Wei Jiang, Eduard Trulls, Andrea Tagliasacchi, Kwang Moo Yi	308
33	11:00	23:00	Learning Situational Driving	Eshed Ohn-Bar, Aditya Prakash, Aseem Behl, Kashyap Chitta, Andreas Geiger	402
34	11:00	23:00	From Depth What Can You See? Depth Completion via Auxiliary Image Reconstruction	Kaiyue Lu, Nick Barnes, Saeed Anwar, Liang Zheng	415
35	11:00	23:00	Symmetry and Group in Attribute-Object Compositions	Yong-Lu Li, Yue Xu, Xiaohan Mao, Cewu Lu	579
36	11:00	23:00	Noise-Aware Fully Webly Supervised Object Detection	Yunhang Shen, Rongrong Ji, Zhiwei Chen, Xiaopeng Hong, Feng Zheng, Jianzhuang Liu, Mingliang Xu, Qi Tian	907
37	11:00	23:00	3D Part Guided Image Editing for Fine-Grained Object Understanding	Zongdai Liu, Feixiang Lu, Peng Wang, Hui Miao, Liangjun Zhang, Ruigang Yang, Bin Zhou	929
38	11:00	23:00	STINet: Spatio-Temporal-Interactive Network for Pedestrian Detection and Trajectory Prediction	Zhishuai Zhang, Jiyang Gao, Junhua Mao, Yukai Liu, Dragomir Anguelov, Congcong Li	956
39	11:00	23:00	Rethinking Performance Estimation in Neural Architecture Search	Xiawu Zheng, Rongrong Ji, Qiang Wang, Qixiang Ye, Zhenguo Li, Yonghong Tian, Qi Tian	1073
40	11:00	23:00	Feature-Metric Registration: A Fast Semi-Supervised Approach for Robust Point Cloud Registration Without Correspondences	Xiaoshui Huang, Guofeng Mei, Jian Zhang	1124
41	11:00	23:00	Learning Multi-View Camera Relocalization With Graph Neural Networks	Fei Xue, Xin Wu, Shaojun Cai, Junqiu Wang	1137
42	11:00	23:00	MotionNet: Joint Perception and Motion Prediction for Autonomous Driving Based on Bird's Eye View Maps	Pengxiang Wu, Siheng Chen, Dimitris N. Metaxas	1217
43	11:00	23:00	EcoNAS: Finding Proxies for Economical Neural Architecture Search	Dongzhan Zhou, Xinch Zhou, Wenwei Zhang, Chen Change Loy, Shuai Yi, Xuesen Zhang, Wanli Ouyang	1755
44	11:00	23:00	Hit-Detector: Hierarchical Trinity Architecture Search for Object Detection	Jianyuan Guo, Kai Han, Yunhe Wang, Chao Zhang, Zhaojun Yang, Han Wu, Xinghao Chen, Chang Xu	1818

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45	11:00	23:00	Geometrically Principled Connections in Graph Neural Networks	Shunwang Gong, Mehdi Bahri, Michael M. Bronstein, Stefanos Zafeiriou	1917
46	11:00	23:00	On Vocabulary Reliance in Scene Text Recognition	Zhaoyi Wan, Jielei Zhang, Liang Zhang, Jiebo Luo, Cong Yao	1919
47	11:00	23:00	Generating Accurate Pseudo-Labels in Semi-Supervised Learning and Avoiding Overconfident Predictions via Hermite Polynomial Activations	Vishnu Suresh Lokhande, Songwong Tasneeyapant, Abhay Venkatesh, Sathya N. Ravi, Vikas Singh	2236
48	11:00	23:00	GraspNet-1Billion: A Large-Scale Benchmark for General Object Grasping	Hao-Shu Fang, Chenxi Wang, Minghao Gou, Cewu Lu	2274
49	11:00	23:00	PFRL: Pose-Free Reinforcement Learning for 6D Pose Estimation	Jianzhun Shao, Yuhang Jiang, Gu Wang, Zhigang Li, Xiangyang Ji	2365
50	11:00	23:00	Through Fog High-Resolution Imaging Using Millimeter Wave Radar	Junfeng Guan, Sohrab Madani, Suraj Jog, Saurabh Gupta, Haitham Hassanieh	2381
51	11:00	23:00	Disentangling Physical Dynamics From Unknown Factors for Unsupervised Video Prediction	Vincent Le Guen, Nicolas Thome	2788
52	11:00	23:00	D2Det: Towards High Quality Object Detection and Instance Segmentation	Jiale Cao, Hisham Cholakkal, Rao Muhammad Anwer, Fahad Shahbaz Khan, Yanwei Pang, Ling Shao	2875
53	11:00	23:00	LiDAR-Based Online 3D Video Object Detection With Graph-Based Message Passing and Spatiotemporal Transformer Attention	Junbo Yin, Jianbing Shen, Chenye Guan, Dingfu Zhou, Ruigang Yang	2917
54	11:00	23:00	Orthogonal Convolutional Neural Networks	Jiayun Wang, Yubei Chen, Rudrasis Chakraborty, Stella X. Yu	3051
55	11:00	23:00	Self-Robust 3D Point Recognition via Gather-Vector Guidance	Xiaoyi Dong, Dongdong Chen, Hang Zhou, Gang Hua, Weiming Zhang, Nenghai Yu	3153
56	11:00	23:00	VectorNet: Encoding HD Maps and Agent Dynamics From Vectorized Representation	Jiyang Gao, Chen Sun, Hang Zhao, Yi Shen, Dragomir Anguelov, Congcong Li, Cordelia Schmid	4284
57	11:00	23:00	ECA-Net: Efficient Channel Attention for Deep Convolutional Neural Networks	Qilong Wang, Banggu Wu, Pengfei Zhu, Peihua Li, Wangmeng Zuo, Qinghua Hu	4422
58	11:00	23:00	MTL-NAS: Task-Agnostic Neural Architecture Search Towards General-Purpose Multi-Task Learning	Yuan Gao, Haoping Bai, Zequn Jie, Jiayi Ma, Kui Jia, Wei Liu	4472
59	11:00	23:00	PnPNet: End-to-End Perception and Prediction	Ming Liang, Bin Yang, Wenyuan Zeng, Yun Chen, Dafang Chen	4576

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60	11:00	23:00	Revisiting the Sibling Head in Object Detector	Guanglu Song, Yu Liu, Xiaogang Wang	4616
61	11:00	23:00	Visual Reaction: Learning to Play Catch With Your Drone	Kuo-Hao Zeng, Roozbeh Mottaghi, Luca Weihs, Ali Farhadi	4714
62	11:00	23:00	Prime Sample Attention in Object Detection	Yuhang Cao, Kai Chen, Chen Change Loy, Dahua Lin	4776
63	11:00	23:00	SpineNet: Learning Scale-Permuted Backbone for Recognition and Localization	Xianzhi Du, Tsung-Yi Lin, Pengchong Jin, Golnaz Ghiasi, Mingxing Tan, Yin Cui, Quoc V. Le, Xiaodan Song	4972
64	11:00	23:00	KeyPose: Multi-View 3D Labeling and Keypoint Estimation for Transparent Objects	Xingyu Liu, Rico Jonschkowski, Anelia Angelova, Kurt Konolige	5010
65	11:00	23:00	SegGCN: Efficient 3D Point Cloud Segmentation With Fuzzy Spherical Kernel	Huan Lei, Naveed Akhtar, Ajmal Mian	5047
66	11:00	23:00	nuScenes: A Multimodal Dataset for Autonomous Driving	Holger Caesar, Varun Bankiti, Alex H. Lang, Sourabh Vora, Venice Erin Liong, Qiang Xu, Anush Krishnan, Yu Pan, Giancarlo Baldan, Oscar Beijbom	5088
67	11:00	23:00	PVN3D: A Deep Point-Wise 3D Keypoints Voting Network for 6DoF Pose Estimation	Yisheng He, Wei Sun, Haibin Huang, Jianran Liu, Haoqiang Fan, Jian Sun	5118
68	11:00	23:00	Probabilistic Pixel-Adaptive Refinement Networks	Anne S. Wannenwetsch, Stefan Roth	5138
69	11:00	23:00	Discovering Human Interactions With Novel Objects via Zero-Shot Learning	Suchen Wang, Kim-Hui Yap, Junsong Yuan, Yap-Peng Tan	5225
70	11:00	23:00	Equalization Loss for Long-Tailed Object Recognition	Jingru Tan, Changbao Wang, Buyu Li, Quanquan Li, Wanli Ouyang, Changqing Yin, Junjie Yan	5235
71	11:00	23:00	Learning Depth-Guided Convolutions for Monocular 3D Object Detection	Mingyu Ding, Yuqi Huo, Hongwei Yi, Zhe Wang, Jianping Shi, Zhiwu Lu, Ping Luo	5238
72	11:00	23:00	Seeing Through Fog Without Seeing Fog: Deep Multimodal Sensor Fusion in Unseen Adverse Weather	Mario Bijelic, Tobias Gruber, Fahim Mannan, Florian Kraus, Werner Ritter, Klaus Dietmayer, Felix Heide	5241
73	11:00	23:00	Don't Even Look Once: Synthesizing Features for Zero-Shot Detection	Pengkai Zhu, Hanxiao Wang, Venkatesh Saligrama	5257
74	11:00	23:00	EPOS: Estimating 6D Pose of Objects With Symmetries	Tomáš Hodaň, Dániel Baráth, Jiří Matas	5280
75	11:00	23:00	Train in Germany, Test in the USA: Making 3D Object Detectors Generalize	Yan Wang, Xiangyu Chen, Yurong You, Li Erran Li, Bharath Hariharan, Mark	5327

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76	11:00	23:00	Exploring Categorical Regularization for Domain Adaptive Object Detection	Chang-Dong Xu, Xing-Ran Zhao, Xin Jin, Xiu-Shen Wei	5378
77	11:00	23:00	Neural Implicit Embedding for Point Cloud Analysis	Kent Fujiwara, Taiichi Hashimoto	5426
78	11:00	23:00	Pose-Guided Visible Part Matching for Occluded Person ReID	Shang Gao, Jingya Wang, Huchuan Lu, Zimo Liu	5493
79	11:00	23:00	ContourNet: Taking a Further Step Toward Accurate Arbitrary-Shaped Scene Text Detection	Yuxin Wang, Hongtao Xie, Zheng-Jun Zha, Mengting Xing, Zilong Fu, Yongdong Zhang	5502
80	11:00	23:00	Exploring Data Aggregation in Policy Learning for Vision-Based Urban Autonomous Driving	Aditya Prakash, Aseem Behl, Eshed Ohn-Bar, Kashyap Chitta, Andreas Geiger	5526
81	11:00	23:00	Look-Into-Object: Self-Supervised Structure Modeling for Object Recognition	Mohan Zhou, Yalong Bai, Wei Zhang, Tiejun Zhao, Tao Mei	5544
82	11:00	23:00	Recognizing Objects From Any View With Object and Viewer-Centered Representations	Sainan Liu, Vincent Nguyen, Isaac Rehg, Zhuowen Tu	5593
83	11:00	23:00	Gated Channel Transformation for Visual Recognition	Zongxin Yang, Linchao Zhu, Yu Wu, Yi Yang	5772
84	11:00	23:00	Non-Local Neural Networks With Grouped Bilinear Attentional Transforms	Lu Chi, Zehuan Yuan, Yadong Mu, Changhu Wang	5773
85	11:00	23:00	Generative-Discriminative Feature Representations for Open-Set Recognition	Pramuditha Perera, Vlad I. Morariu, Rajiv Jain, Varun Manjunatha, Curtis Wigington, Vicente Ordonez, Vishal M. Patel	5844
86	11:00	23:00	RPM-Net: Robust Point Matching Using Learned Features	Zi Jian Yew, Gim Hee Lee	5966
87	11:00	23:00	Sideways: Depth-Parallel Training of Video Models	Mateusz Malinowski, Grzegorz Świrszcz, João Carreira, Viorica Pătrăucean	6130
88	11:00	23:00	Basis Prediction Networks for Effective Burst Denoising With Large Kernels	Zhihao Xia, Federico Perazzi, Michaël Gharbi, Kalyan Sunkavalli, Ayan Chakrabarti	6139
89	11:00	23:00	Private-kNN: Practical Differential Privacy for Computer Vision	Yuqing Zhu, Xiang Yu, Manmohan Chandraker, Yu-Xiang Wang	6156
90	11:00	23:00	SP-NAS: Serial-to-Parallel Backbone Search for Object Detection	Chenhan Jiang, Hang Xu, Wei Zhang, Xiaodan Liang, Zhenguo Li	6209
91	11:00	23:00	Structure Aware Single-Stage 3D Object Detection From Point Cloud	Chenhang He, Hui Zeng, Jianqiang Huang, Xian-Sheng Hua, Lei Zhang	6241

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92	11:00	23:00	"Looking at the Right Stuff" – Guided Semantic-Gaze for Autonomous Driving	Anwesan Pal, Sayan Mondal, Henrik I. Christensen	6308
93	11:00	23:00	What's Hidden in a Randomly Weighted Neural Network?	Vivek Ramanujan, Mitchell Wortsman, Aniruddha Kembhavi, Ali Farhadi, Mohammad Rastegari	6397
94	11:00	23:00	Structured Multi-Hashing for Model Compression	Elad Eban, Yair Movshovitz-Attias, Hao Wu, Mark Sandler, Andrew Poon, Yerlan Idelbayev, Miguel Á. Carreira-Perpiñán	6403
95	11:00	23:00	DOPS: Learning to Detect 3D Objects and Predict Their 3D Shapes	Mahyar Najibi, Guangda Lai, Abhijit Kundu, Zhichao Lu, Vivek Rathod, Thomas Funkhouser, Caroline Pantofaru, David Ross, Larry S. Davis, Alireza Fathi	6411
96	11:00	23:00	AutoTrack: Towards High-Performance Visual Tracking for UAV With Automatic Spatio-Temporal Regularization	Yiming Li, Changhong Fu, Fangqiang Ding, Ziyuan Huang, Geng Lu	6543
97	11:00	23:00	GP-NAS: Gaussian Process Based Neural Architecture Search	Zhihang Li, Teng Xi, Jiankang Deng, Gang Zhang, Shengzhao Wen, Ran He	6612
98	11:00	23:00	NAS-FCOS: Fast Neural Architecture Search for Object Detection	Ning Wang, Yang Gao, Hao Chen, Peng Wang, Zhi Tian, Chunhua Shen, Yanning Zhang	6690
99	11:00	23:00	TCTS: A Task-Consistent Two-Stage Framework for Person Search	Cheng Wang, Bingpeng Ma, Hong Chang, Shiguang Shan, Xilin Chen	6693
100	11:00	23:00	SCATTER: Selective Context Attentional Scene Text Recognizer	Ron Litman, Oron Anschel, Shahar Tsiper, Roee Litman, Shai Mazor, R. Manmatha	6771
101	11:00	23:00	Learning Canonical Shape Space for Category-Level 6D Object Pose and Size Estimation	Dengsheng Chen, Jun Li, Zheng Wang, Kai Xu	6820
102	11:00	23:00	Hierarchical Scene Coordinate Classification and Regression for Visual Localization	Xiaotian Li, Shuzhe Wang, Yi Zhao, Jakob Verbeek, Juho Kannala	6825
103	11:00	23:00	MiLeNAS: Efficient Neural Architecture Search via Mixed-Level Reformulation	Chaoyang He, Haishan Ye, Li Shen, Tong Zhang	6901
104	11:00	23:00	Scalable Uncertainty for Computer Vision With Functional Variational Inference	Eduardo D. C. Carvalho, Ronald Clark, Andrea Nicastro, Paul H. J. Kelly	6973
105	11:00	23:00	Uncertainty-Aware CNNs for Depth Completion: Uncertainty from Beginning to End	Abdelrahman Elde索key, Michael Felsberg, Karl Holmquist, Michael Persson	7778

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106	11:00	23:00	Butterfly Transform: An Efficient FFT Based Neural Architecture Design	Keivan Alizadeh vahid, Anish Prabhu, Ali Farhadi, Mohammad Rastegari	7976
107	11:00	23:00	A Certifiably Globally Optimal Solution to Generalized Essential Matrix Estimation	Ji Zhao, Wanting Xu, Laurent Kneip	7996
108	11:00	23:00	MUXConv: Information Multiplexing in Convolutional Neural Networks	Zhichao Lu, Kalyanmoy Deb, Vishnu Naresh Boddeti	8140
109	11:00	23:00	PointGMM: A Neural GMM Network for Point Clouds	Amir Hertz, Rana Hanocka, Raja Giryes, Daniel Cohen-Or	8309
110	11:00	23:00	Noisier2Noise: Learning to Denoise From Unpaired Noisy Data	Nick Moran, Dan Schmidt, Yu Zhong, Patrick Coady	8322
111	11:00	23:00	TRPLP – Trifocal Relative Pose From Lines at Points	Ricardo Fabbri, Timothy Duff, Hongyi Fan, Margaret H. Regan, David da Costa de Pinho, Elias Tsigaridas, Charles W. Wampler, Jonathan D. Hauenstein, Peter J. Giblin, Benjamin Kimia, Anton Leykin, Tomas Pajdla	8503
112	11:00	23:00	DSNAS: Direct Neural Architecture Search Without Parameter Retraining	Shoukang Hu, Sirui Xie, Hehui Zheng, Chunxiao Liu, Jianping Shi, Xunying Liu, Dahua Lin	8882
113	11:00	23:00	MonoPair: Monocular 3D Object Detection Using Pairwise Spatial Relationships	Yongjian Chen, Lei Tai, Kai Sun, Mingyang Li	8930
114	11:00	23:00	Regularization on Spatio-Temporally Smoothed Feature for Action Recognition	Jinhyung Kim, Seunghwan Cha, Dongyoon Wee, Soonmin Bae, Junmo Kim	9002
115	11:00	23:00	Towards Accurate Scene Text Recognition With Semantic Reasoning Networks	Deli Yu, Xuan Li, Chengquan Zhang, Tao Liu, Junyu Han, Jingtuo Liu, Errui Ding	9009
116	11:00	23:00	Unsupervised Reinforcement Learning of Transferable Meta-Skills for Embodied Navigation	Juncheng Li, Xin Wang, Siliang Tang, Haizhou Shi, Fei Wu, Yueling Zhuang, William Yang Wang	9120
117	11:00	23:00	Inferring Attention Shift Ranks of Objects for Image Saliency	Avishek Siris, Jianbo Jiao, Gary K.L. Tam, Xianghua Xie, Rynson W.H. Lau	9196
118	11:00	23:00	Camera On-Boarding for Person Re-Identification Using Hypothesis Transfer Learning	Sk Miraj Ahmed, Aske R. Lejølle, Rameswar Panda, Amit K. Roy-Chowdhury	9517
119	11:00	23:00	Joint Graph-Based Depth Refinement and Normal Estimation	Mattia Rossi, Mireille El Gheche, Andreas Kuhn, Pascal Frossard	9548
120	11:00	23:00	DR Loss: Improving Object Detection with Depth	Qi Qian, Lei Chen, Hao Li, Boqiang Huang	9705

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121	11:00	23:00	Self-Trained Deep Ordinal Regression for End-to-End Video Anomaly Detection	Guansong Pang, Cheng Yan, Chunhua Shen, Anton van den Hengel, Xiao Bai	9712
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Date: Thursday, June 18, 2020 **Q&A Time:** 1500–1700 and 0300–0500

Session: Oral 3.3A – Recognition (Detection, Categorization) (3); Segmentation, Grouping and Shape (2)

Poster #	Video Time 1	Video Time 2	Paper Title	Author(s)	Paper ID
1	15:00	03:00	Few-Shot Class-Incremental Learning	Xiaoyu Tao, Xiaopeng Hong, Xinyuan Chang, Songlin Dong, Xing Wei, Yihong Gong	1239
2	15:05	03:05	PolarMask: Single Shot Instance Segmentation With Polar Representation	Enze Xie, Peize Sun, Xiaoge Song, Wenhui Wang, Xuebo Liu, Ding Liang, Chunhua Shen, Ping Luo	5639
3	15:10	03:10	DeepEMD: Few-Shot Image Classification With Differentiable Earth Mover's Distance and Structured Classifiers	Chi Zhang, Yujun Cai, Guosheng Lin, Chunhua Shen	5957
4	15:15	03:15	Detection in Crowded Scenes: One Proposal, Multiple Predictions	Xuangeng Chu, Anlin Zheng, Xiangyu Zhang, Jian Sun	1453
5	15:20	03:20	Autolabeling 3D Objects With Differentiable Rendering of SDF Shape Priors	Sergey Zakharov, Wadim Kehl, Arjun Bhargava, Adrien Gaidon	1625
6	15:25	03:25	Interactive Object Segmentation With Inside-Outside Guidance	Shiyin Zhang, Jun Hao Liew, Yunchao Wei, Shikui Wei, Yao Zhao	1431
7	15:30	03:30	Mnemonics Training: Multi-Class Incremental Learning Without Forgetting	Yaoyao Liu, Yuting Su, An-An Liu, Bernt Schiele, Qianru Sun	5210
8	15:35	03:35	Learning to Segment 3D Point Clouds in 2D Image Space	Yecheng Lyu, Xinming Huang, Ziming Zhang	4304
9	15:40	03:40	Smooth Shells: Multi-Scale Shape Registration With Functional Maps	Marvin Eisenberger, Zorah Lähner, Daniel Cremers	7320
10	15:45	03:45	Self-Supervised Equivariant Attention Mechanism for Weakly Supervised Semantic Segmentation	Yude Wang, Jie Zhang, Meina Kan, Shiguang Shan, Xilin Chen	5028

Date: Thursday, June 18, 2020 **Q&A Time:** 1500–1700 and 0300–0500

Session: Oral 3.3B – Vision Applications and Systems; Vision & Other Modalities; Visual Reasoning and Logical Representation

Poster	Video	Video	Paper Title	Author(s)	Paper
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11	15:00	03:00	Efficient Neural Vision Systems Based on Convolutional Image Acquisition	Pedram Pad, Simon Narduzzi, Clément Kündig, Engin Türetken, Siavash A. Bigdeli, L. Andrea Dunbar	9383
12	15:05	03:05	Visual Chirality	Zhiqiu Lin, Jin Sun, Abe Davis, Noah Snavely	5600
13	15:10	03:10	What Machines See Is Not What They Get: Fooling Scene Text Recognition Models With Adversarial Text Images	Xing Xu, Jiefu Chen, Jinhui Xiao, Lianli Gao, Fumin Shen, Heng Tao Shen	8912
14	15:15	03:15	Dynamic Traffic Modeling From Overhead Imagery	Scott Workman, Nathan Jacobs	2487
15	15:20	03:20	Satellite Image Time Series Classification With Pixel-Set Encoders and Temporal Self-Attention	Vivien Sainte Fare Garnot, Loic Landrieu, Sébastien Giordano, Nesrine Chehata	6122
16	15:25	03:25	DAVD-Net: Deep Audio-Aided Video Decompression of Talking Heads	Xi Zhang, Xiaolin Wu, Xinliang Zhai, Xianye Ben, Chengjie Tu	4717
17	15:30	03:30	Learning When and Where to Zoom With Deep Reinforcement Learning	Burak Uzkent, Stefano Ermon	8489

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Session: Oral 3.3C – Transfer/Low-Shot/Semi/Unsupervised Learning (3)

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19	15:05	03:05	Meta-Learning of Neural Architectures for Few-Shot Learning	Thomas Elsken, Benedikt Staffler, Jan Hendrik Metzen, Frank Hutter	9180
20	15:10	03:10	Towards Inheritable Models for Open-Set Domain Adaptation	Jogendra Nath Kundu, Naveen Venkat, Ambareesh Revanur, Rahul M V, R. Venkatesh Babu	6640
21	15:15	03:15	Learning From Synthetic Animals	Jiteng Mu, Weichao Qiu, Gregory D. Hager, Alan L. Yuille	5904
22	15:20	03:20	Distilling Cross-Task Knowledge via Relationship Matching	Han-Jia Ye, Su Lu, De-Chuan Zhan	8965
23	15:25	03:25	Open Compound Domain Adaptation	Ziwei Liu, Zhongqi Miao, Xingang Pan, Xiaohang Zhan, Dahua Lin, Stella X. Yu, Boqing Gong	1681

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Session: Poster 3.3 – Recognition (Detection, Categorization); Segmentation, Grouping and Shape; Vision Applications and Systems; Vision & Other Modalities; Transfer/Low-Shot/Semi/Unsupervised Learning

Poster #	Q&A Time 1	Q&A Time 2	Paper Title	Author(s)	Paper ID
24	15:00	03:00	Context Prior for Scene Segmentation	Changqian Yu, Jingbo Wang, Changxin Gao, Gang Yu, Chunhua Shen, Nong Sang	161
25	15:00	03:00	Tangent Images for Mitigating Spherical Distortion	Marc Eder, Mykhailo Shvets, John Lim, Jan-Michael Frahm	175
26	15:00	03:00	Learning a Dynamic Map of Visual Appearance	Tawfiq Salem, Scott Workman, Nathan Jacobs	384
27	15:00	03:00	Webly Supervised Knowledge Embedding Model for Visual Reasoning	Wenbo Zheng, Lan Yan, Chao Gou, Fei-Yue Wang	551
28	15:00	03:00	Gradually Vanishing Bridge for Adversarial Domain Adaptation	Shuhao Cui, Shuhui Wang, Junbao Zhuo, Chi Su, Qingming Huang, Qi Tian	592
29	15:00	03:00	Active Speakers in Context	Juan León Alcázar, Fabian Caba, Long Mai, Federico Perazzi, Joon-Young Lee, Pablo Arbeláez, Bernard Ghanem	622
30	15:00	03:00	Panoptic-DeepLab: A Simple, Strong, and Fast Baseline for Bottom-Up Panoptic Segmentation	Bowen Cheng, Maxwell D. Collins, Yukun Zhu, Ting Liu, Thomas S. Huang, Hartwig Adam, Liang-Chieh Chen	784
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33	15:00	03:00	Making Better Mistakes: Leveraging Class Hierarchies With Deep Networks	Luca Bertinetto, Romain Mueller, Konstantinos Tertikas, Sina Samangooei, Nicholas A. Lord	1054
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37	15:00	03:00	Weakly-Supervised Salient Object Detection via Scribble Annotations	Jing Zhang, Xin Yu, Aixuan Li, Peipei Song, Bowen Liu, Yuchao Dai	2100
38	15:00	03:00	Learning to Learn Single Domain Generalization	Fengchun Qiao, Long Zhao, Xi Peng	2209

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41	15:00	03:00	JA-POLS: A Moving-Camera Background Model via Joint Alignment and Partially-Overlapping Local Subspaces	Irit Chelly, Vlad Winter, Dor Litvak, David Rosen, Oren Freifeld	2455
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Session: Poster 3.4 – Miscellaneous

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11	17:00	05:00	Binarizing MobileNet via Evolution-Based Searching	Hai Phan, Zechun Liu, Dang Huynh, Marios Savvides, Kwang-Ting Cheng, Zhiqiang Shen	5277
12	17:00	05:00	Temporal-Context Enhanced Detection of Heavily Occluded Pedestrians	Jialian Wu, Chunluan Zhou, Ming Yang, Qian Zhang, Yuan Li, Junsong Yuan	5919
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35	17:00	05:00	Hierarchical Clustering With Hard-Batch Triplet Loss for Person Re-Identification	Kaiwei Zeng, Munan Ning, Yaohua Wang, Yang Guo	7913
36	17:00	05:00	Joint Semantic Segmentation and Boundary Detection Using Iterative Pyramid Contexts	Mingmin Zhen, Jinglu Wang, Lei Zhou, Shiwei Li, Tianwei Shen, Jiaxiang Shang, Tian Fang, Long Quan	7942
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