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WACV20: Oral 4B: Robotics



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00:00 Video Object Segmentation-based Visual Servo Control and Object Depth Estimation on a Mobile Robot Brent Griffin (University of Michigan)*; Victoria N Florence (University of Michigan); Jason J Corso (University of Michigan)

03:05 Robust Feature Tracking in DVS Event Stream using Bezier Mapping Hochang Seok (Hanyang University); Jongwoo Lim (Hanyang University)*

06:06 SymGAN: Orientation Estimation without Annotation for Symmetric Objects Phil Ammirato (UNC-Chapel Hill)*; Jonathan Tremblay (NVIDIA); Ming-Yu Liu (NVIDIA); Alexander C Berg (University of North Carolina, USA); Dieter Fox (NVIDIA)

09:07 QUICKSAL: A small and sparse visual saliency model for efficient inference in resource constrained hardware Vignesh Ramanathan (Indian institute of science)*; Pritesh Dwivedi (Indian institute of science); Katabathuni Bharath (Indian Institute Of Science); Anirban Chakraborty (Indian Institute of Science); Chetan Singh Thakur (Indian Institute of Science Bangalore)

12:09 MonoLayout: Amodal scene layout from a single image Kaustubh Mani (IIIT-Hyderabad)*; Swapnil Naresh Daga (International Institute of Information Technology, Hyderabad); Shubhika Garg (IIT Kharagpur); Sai Shankar Narasimhan (IIIT Hyderabad); Krishna Murthy Jatavallabhula (Mila, DIRO, Université de Montréal); Madhava Krishna (IIIT-Hyderabad)

15:13 Frustum VoxNet for 3D object detection from RGB-D or Depth images Xiaoke Shen (CUNY Graduate Center)*; Ioannis Stamos (City University of New York)

18:16 Cross-View Contextual Relation Transferred Network for Unsupervised Vehicle Tracking in Drone Videos Wenfeng Song (BeihangUniversity); Shuai Li (BeihangUniversity)*; Tao Chang (Beihang University); Aimin Hao (BeihangUniversity); Qinqing Zhao (BeihangUniversity); Hong Qin (Stony Brook University)

21:19 Unsupervised and Semi-Supervised Domain Adaptation for Action Recognition from Drones Jinwoo Choi (Virginia Tech)*; Gaurav Sharma (NEC Labs America); Manmohan Chandraker (NEC Labs America); Jia-Bin Huang (Virginia Tech)

24:24 Localizing Grouped Instances for Efficient Detection in Low-Resource Scenarios Amélie Royer (IST Austria)*; Christoph H Lampert (IST Austria)

27:26 Reconstructing Road Network Graphs from both Aerial Lidar and Images Biswas Parajuli (Florida State University); Ahana Roy Choudhury (Florida State University)*; Piyush Kumar (Florida State University)

30:30 BIRDSAL: A Dataset for Detection and Tracking in Aerial Thermal Infrared Videos Elizabeth Bondi (Harvard University); Raghav Jain (IIIT-Delhi); Palash Aggrawal (IIIT-Delhi); Saket Anand (Indraprastha Institute of Information Technology Delhi)*; Robert Hannaford (Air Shepherd); Ashish Kapoor (Microsoft); Jim Piavis (Microsoft); Shital Shah (Microsoft); Lucas Joppa (Microsoft Research); Bistra Dilkina (University of Southern California); Milind Tambe (Harvard University)

33:33 Periphery-Fovea Multi-Resolution Driving Model guided by Human Attention Ye Xia (University of California, Berkeley)*; Jinkyu Kim (UC Berkeley); John F Canny (UC Berkeley); Karl Zipser (UC Berkeley); Teresa Canas Bajo (UC Berkeley); David Whitney (University of California, Berkeley)

36:36 Deep Remote Sensing Methods for Methane Detection in Overhead Hyperspectral Imagery Satish Kumar (University of California, Santa Barbara)*; Carlos Torres (University of California Santa Barbara); Oytun Uluhan (University of California, Santa Barbara); Alana Ayasse (University of California, Santa Barbara); Dar Roberts (University of California, Santa Barbara); B. S. Manjunath (University of California Santa Barbara)

39:24 City-Scale Extraction of Road Topology and Travel Times with Satellite Imagery Adam Van Etten (IQT)*

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45:33 Single Satellite Optical Imagery Dehazing using SAR Image Prior Based on conditional Generative Adversarial Networks Binghui Huang (Tsinghua University)*; Li Zhi (shanghai university of engineering science); Chao Yang (Tsinghua University); Fuchun Sun (Tsinghua); Yixu Song (Tsinghua University)

48:34 The Synthinel-1 dataset: a collection of high resolution synthetic overhead imagery for building segmentation Fanjie Kong (Duke University); Bohao Huang (Duke University); Kyle Bradbury (Duke University); Jordan M Malof (Duke University)*

51:37 Efficient Object Detection in Large Images Using Deep Reinforcement Learning Burak Uzkent (Stanford University)*; Christopher Yeh (Stanford University); Stefano Ermon (Stanford University)

54:40 Lane detection using lane boundary marker network with road geometry constraints Hussam Khan (KeepTruckin); Afsheen Rafaqat Ali (Keep Truck In)*; Ali Hassan (KeepTruckin); Ahmed Ali (Keeptrucin); Wajahat Kazmi (KeepTruckin Inc); Aamer Zaheer (KeepTruckin)

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