

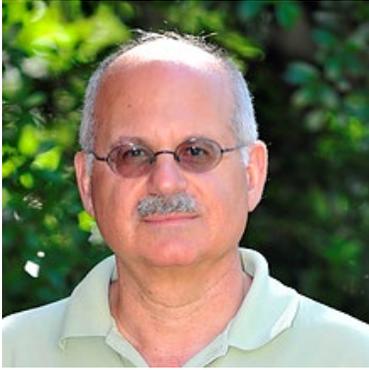


**LONG BEACH  
CALIFORNIA  
June 16-20, 2019**



**Welcome to CVPR 2019**

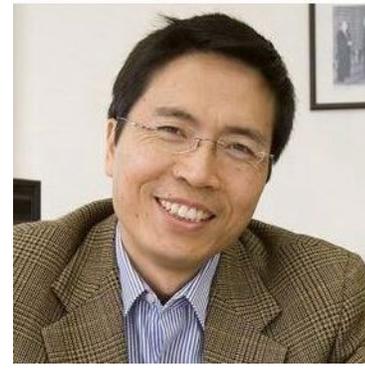
## General chairs



Larry Davis  
Univ. of Maryland



Philip Torr  
Univ. of Oxford



Song-Chun Zhu  
UCLA

## Program chairs



Abhinav Gupta  
CMU



Derek Hoiem  
UIUC



Gang Hua  
Wormpex



Zhuowen Tu  
UCSD

# Best paper finalists

“Probabilistic Permutation Synchronization using the Riemannian Structure of the Birkhoff Polytope,” by Tolga Birdal; Umut Simsekli

“DeepCO<sup>3</sup> : Deep Instance Co-segmentation by Co-peak Search and Co-saliency Detection,” by Kuang-Jui Hsu; Yen-Yu Lin; Yung-Yu Chuang

“SelfFlow: Self-Supervised Learning of Optical Flow,” by Pengpeng Liu, Michael Lyu, Irwin King, Jia Xu

“SDRSAC: Semidefinite-Based Randomized Approach for Robust Point Cloud Registration without Correspondences,” by Huu Le; Thanh-Toan Do; Tuan NA Hoang; Ngai-Man Cheung

“Deep Tree Learning for Zero-shot Face Anti-Spoofing,” by Yaojie Liu; Joel Stehouwer; Amin Jourabloo; Xiaoming Liu

“Neural RGB -> D Sensing: Depth and Uncertainty from a Video Camera,” by Chao Liu; Jinwei Gu; Kihwan Kim; Srinivasa G Narasimhan; Jan Kautz

“Self-supervised 3D hand pose estimation through training by fitting,” by Chengde Wan; Thomas Probst; Luc Van Gool; Angela Yao

“Neural Illumination: Lighting Prediction for Indoor Environments,” by Shuran Song; Thomas Funkhouser

“Shapes and Context: In-the-wild Image Synthesis & Manipulation,” Aayush Bansal; Yaser Sheikh; Deva Ramanan

“SiCloPe: Silhouette-based Clothed People,” by Ryota Natsume; Shunsuke Saito; Zeng Huang; Weikai Chen; Chongyang Ma; Shigeo Morishima; Hao Li

“A General and Adaptive Robust Loss Function,” by Jonathan T Barron

“2.5D Visual Sound,” by Ruohan Gao; Kristen Grauman

“Incremental Object Learning from Contiguous Views,” by Stefan Stojanov; Samarth Mishra; Ngoc Anh Thai; Nikhil Dhanda; Ahmad Humayun; Linda Smith; Chen Yu; James Rehg

“Text2Scene: Generating Compositional Scenes from Textual Descriptions,” by Fuwen Tan; Song Feng; Vicente Ordonez

“Relational Action Forecasting,” by Chen Sun; Abhinav Shrivastava; Carl Vondrick; Rahul Sukthankar; Kevin Murphy; Cordelia Schmid

“Shifting More Attention to Video Salient Object Detection,” by Deng-Ping Fan; Wenguan Wang; Ming-Ming Cheng; Jianbing Shen

“GA-Net: Guided Aggregation Net for End-to-end Stereo Matching,” by Feihu Zhang; Victor Prisacariu; Yang Ruigang; Philip Torr

“A Skeleton-bridged Deep Learning Approach for Generating Meshes of Complex Topologies from Single RGB Images,” by Jiapeng Tang; Xiaoguang Han; Junyi Pan; Kui Jia; Xin Tong

“Semantic Image Synthesis with Spatially-Adaptive Normalization,” by Taesung Park; Ming-Yu Liu; Ting-Chun Wang; Jun-Yan Zhu

“ContactDB: Analyzing and Predicting Grasp Contact via Thermal Imaging,” by Samarth Brahmabhatt; Cusuh Ham; Charlie Kemp; James Hays

“Revealing Scenes by Inverting Structure from Motion Reconstructions,” by Francesco Pittaluga; Sanjeev J Koppal; Sing Bing Kang; Sudipta Sinha

“A Theory of Fermat Paths for Non-Line-of-Sight Shape Reconstruction,” by Shumian Xin; Sotiris Nousias; Kyros Tutulakos; Aswin Sankaranarayanan; Srinivasa G Narasimhan; Ioannis Gkioulekas

“Relation-Shape Convolutional Neural Network for Point Cloud Analysis,” by Yongcheng Liu; Bin Fan; Shiming Xiang; Chunhong Pan

“BubbleNets: Learning to Select the Guidance Frame in Video Object Segmentation by Deep Sorting Frames,” by Brent Griffin; Jason J Corso