

Yu Zhang, Ph.D. Candidate

GENERAL INFORMATION

Date of birth: April 26, 1990
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EXPERIENCE

SenseTime Research, Beijing, China

Senior Researcher, July 2018 - Present

- Currently, I am working on vision & learning problems for smart mobile applications

Baidu Research, Beijing, China

Research Intern, March 2018 - July 2018

- Semantic image segmentation for autonomous driving on Highway scenes

EDUCATION

Beihang University, Beijing, China

Ph.D. Candidate, Computer Science, Sept. 2012 - July 2018, Supervisor: Prof. Qinpeng Zhao

- Extensive experience on video object segmentation with weak supervision
- Video event representation and inference for intelligent surveillance

B.Eng., Computer Science and Engineering, Sept. 2008 - July 2012, GPA - 3.81/4.0

RESEARCH STATEMENT

My research interests lie in computer vision, image/video processing, optimization and machine learning. Currently I work on vision & learning problems for smart mobile applications. During my Ph.D., I was also interested in developing principled optimization algorithms for video understanding.

SELECTED PUBLICATIONS

Feixiang Lu, Bin Zhou, **Yu Zhang**, Qinpeng Zhao. Real-time 3D Scene Reconstruction with Dynamically Moving Object using a Single Depth Camera. CGI, 2018 (Best Paper Award)

Yu Zhang, Xiaowu Chen, Jia Li, Wei Teng, Haokun Song. Exploring Weakly Labeled Images for Video Object Segmentation with Submodular Proposal Selection. IEEE TIP, 2018.

Changqun Xia, Jia Li, Xiaowu Chen, Anlin Zheng, **Yu Zhang**. What is and What is not a Salient Object? Learning Salient Object Detector by Ensembling Linear Exemplar Regressors. CVPR, 2017. (Spotlight, 8% acceptance)

Yu Zhang, Xiaowu Chen, Jia Li, Chen Wang, Changqun Xia. Semantic Object Segmentation in Tagged Videos via Detection. IEEE TPAMI, 2017.

Yafei Song, Xiaowu Chen, Xiaogang Wang, **Yu Zhang**, Jia Li. 6-DOF Image Localization from Massive Geo-tagged Reference Images. IEEE TMM, 2016.

Yu Zhang, Wei Teng, Xiaowu Chen, Jia Li, Zhiqiang He. Local Shape Transfer for Image Co-segmentation. BMVC, 2016. (Oral, 10% acceptance)

Yu Zhang, Xiaowu Chen, Liang Lin, Changqun Xia, High-Level Representation Sketch for Video Event Retrieval. SCIENCE CHINA Information Sciences, 2016.

Yafei Song, Xiaowu Chen, Xiaogang Wang, **Yu Zhang**, Jia Li. Fast Estimation of Relative Poses for 6-DOF Image Localization. BigMM, 2015. (Best paper award)

Han Zhang, Xiaowu Chen, **Yu Zhang**, Jia Li, Qing Li, Xiaogang Wang. Cuboids Detection in RGB-D Images via Maximum Weighted Clique. ICME, 2015.

Yu Zhang, Xiaowu Chen, Jia Li, Chen Wang, Changqun Xia. Semantic Object Segmentation via Detection in Weakly Labeled Video. CVPR, 2015. (Oral, 3.3% acceptance)

Qing Li, Xiaowu Chen, Yafei Song, **Yu Zhang**. Geodesic Propagation for Semantic Labeling. IEEE TIP, 2014.

Kai Jiang, Xiaowu Chen, **Yu Zhang**, Qinpeng Zhao. Video Event Representation and Inference on And-Or Graph. Computer Animation and Virtual Worlds, 2012.

- SERVICES/REWARDS
- Reviewer for TIP, TMM, ACCV
 - The Academic Excellence Foundation of BUAA for PhD Students, Beihang University, 2017
 - The National Graduate Scholarship, 2015
 - The Graduate Innovation Award, School of Computer Science, Beihang University, 2014
 - The Changzhao Qian & Xingyuan Shen Scholarship (1st Prize), Beihang University, 2011
 - The Excellent Student Award, Beihang University, 2010 - 2011
 - The Undergraduate Mathematical Contest (1st Prize, Rank 1st), Beihang University, 2009
 - The National Undergraduate Mathematical Contest (Second Prize in Beijing Region), 2009

- PROFESSIONAL SKILLS
- Systems & Tools: Ubuntu, Python/Matlab/C++, OpenCV/Qt, Tensorflow/Caffe
 - Scientific writing & presentation