Curriculum Vitae

Quanshi Zhang

Associate Professor
John Hopcroft Center for Computer Science
Department of Computer Science & Engineering
Shanghai Jiao Tong University
Website: https://qszhang.com
Email: zqs1022@sjtu.edu.cn

Education

Peking University, China 09/2005 - 08/2009
Department of Intelligence Science and Technology, School of Electronics Engineering & Computer Science (EECS)
Bachelor of Science

University of Tokyo, Japan 10/2009 - 09/2011
Center for Spatial Information Science, Graduate School of Engineering
Master of Engineering under supervision of Prof. Ryosuke Shibasaki

University of Tokyo, Japan 10/2011 - 09/2014
Center for Spatial Information Science, Graduate School of Engineering
Doctor of Philosophy under supervision of Prof. Ryosuke Shibasaki

University of California, Los Angeles 10/2014 – 08/2018
Department of Statistics
Postdoctoral Researcher under supervision of Prof. Song-Chun Zhu

Shanghai Jiao Tong University 09/2018 – present
School of electronic information and electrical engineering
Associate Professor

Research Interests

My research interests range across computer vision, machine learning, robotics, and data mining. I have published top-tier journal and conference papers in these four fields, which include topics of deep learning, graph theory, unsupervised learning, object detection, 3D reconstruction, 3D point cloud processing, knowledge mining, etc.

Now, I am leading a group for explainable AI. The related topics include interpretable CNNs, explainable generative networks, unsupervised semanticization of pre-trained neural networks, and unsupervised/weakly-supervised learning of neural networks. I aim to 1) end-to-end learn interpretable neural networks, and/or 2) unsupervisedly transform the black-box knowledge representation of pre-trained neural networks into a hierarchical and semantically interpretable graph. I believe a symbolic/graphical representation of CNN knowledge can ensure high transferability of features and help weakly-supervised learning from small data and will lead the future development of deep learning.

Professional Activities

Workshop Co-organizer:

Workshop on Language and Vision at CVPR 2017 (http://languageandvision.com/)

Workshop on Language and Vision at CVPR 2018 (http://languageandvision.com/)

Journal Reviewer:

International Journal of Computer Vision

Journal of Machine Learning Research

IEEE Transactions on Knowledge and Data Engineering

IEEE Transactions on Multimedia

IEEE Signal Processing Letters

IEEE Robotics and Automation Letters

Neurocomputing

Conference Reviewer:

International Conference on Computer Vision (ICCV2015, 2017)

IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2018,2017, 2016)

European Conference on Computer Vision (ECCV 2018,2016)

Conference on Neural Information Processing Systems (NIPS 2016)

International Joint Conference on Artificial Intelligence (IJCAI 2018,2016)

International Conference on Robotics and Automation (ICRA 2017, 2016, 2015, 2014)

Asian Conference on Computer Vision (ACCV 2018,2016)

British Machine Vision Conference (BMVC 2018,2016)

Ph.D. Admission Review

CS Department, UCLA, 2016