Ling (Ellen) Zhang

Websites : [Homepage] [Github] [LinkedIn]

Objective : Full-time Research/Software Engineer

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EDUCATION

The City College, City University of New York (CUNY)   New York, US
Master of Science in Computer Engineering   *Aug. 2017 – May 2019*

Central South University (CSU)   Changsha, China
Bachelor of Engineering in Biomedical Engineering   *Aug. 2011 – July 2015*

WORK EXPERIENCE

Yintech Investment Holdings, Ltd [Link]   Shanghai, China
Software Engineer   *Dec. 2016 - Aug. 2017*

Robo Medical, Ltd [Link]   Shenzhen, China
Software Engineer   *July 2015 - Oct. 2016*

PROJECT EXPERIENCE

- **Point Cloud Classification and Segmentation in CVPRW and 3DV 2019**   *July 2018 - June 2019*
    1) Proposed a new unsupervised learning approach to learn features with GNNs for point cloud data.
    2) The results outperform most methods on ModelNet40 and ModelNet10 point cloud datasets.
    3) Master thesis under the supervision of Professor Zhigang Zhu at CCVCL lab in CCNY.
- **Semi-supervised Learning with Self-supervision for Point Cloud Recognition**   *June 2019 - Present*
    1) Proposed a novel semi-supervised learning method for point cloud recognition.
    2) The proposed framework can significantly boost the performance when only a few labeled data samples are available for each class on ModelNet10 and ModelNet40 dataset.
- **NVIDIA AI City Vehicle Re-ID Challenge in CVPRW 2019**   *Mar. 2019 - May 2019*
    1) Designed a multi-granular convolutional neural network for city-scale multi-camera vehicle re-identification.
    2) Obtained state of the art results on vehicle re-identification datasets including VRIC, VERI776, and AIC.
    3) The project is under the supervision of Professor Yingli Tian (IEEE Fellow) at CCNY Media Lab.
- **Stock Trading Application at Yintech Investment Holdings, Ltd**   *Dec. 2016 - Aug. 2017*
    1) Developed a stock trading application using Vuex, Vue.js frameworks, and ES6.
    2) Use Node.js with the Express framework to make local server access to the WeChat interface.
- **Medical Information Website at Robo Medical, Ltd**   *Sept. 2015 - Oct. 2016*
    1) Developed a medical information website using jQuery, Bootstrap, and Swiper.
    2) Use Node.js, Express, and ORM framework to build the structure of the back-end function module.

PUBLICATIONS

- **Ling Zhang**, Zhigang Zhu. *Unsupervised Feature Learning for Point Cloud Understanding by Contrasting and Clustering Using Graph Convolutional Neural Networks* (**3DV**), **2019**. [arXiv]

- **Ling Zhang**, Zhigang Zhu. *Semi-supervised Learning with Self-supervision for Point Cloud Classification Using Graph Convolutional Neural Networks* (**Under Preparation**)

- **Ling Zhang**, Zhigang Zhu. *Unsupervised Feature Learning for Point Cloud by Contrasting and Clustering With Graph Convolutional Neural Network* (**CVPRW**), **2019**. [PDF]

- Yucheng Chen, Longlong Jing, Elahe Vahdani, **Ling Zhang**, YingLi Tian, and Mingyi He. *Multi-camera vehicle tracking and re-identification on AI City Challenge 2019* (**CVPRW**), **2019**. [PDF]

PROGRAMMING SKILLS

- **Languages**: C/C++, JavaScript, Python, HTML5, CSS3, SSAS, SQL

- **Technologies**: TensorFlow, PyTorch, NumPy, Matlab, Vue.js, Node.js, ES6, Express, LaTeX