CHEN LIYU

Gender: Male
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Education

University of Southern California *August 2017 – Now*

- **Program:** PhD in Computer Science
- **GPA: 4.0/4.0**

Hong Kong University of Science and Technology *September 2013 – June 2017*

- **Program:** Bachelor of Computer Science
- **First Major:** Computer Science
- **Second Major:** Applied Mathematics
- **GPA: 3.922/4.3**

ETH Zurich (Exchange Study) *February 2016 – June 2016*

- **Department:** Computer Science
- **GPA: 5.626/6**

Research Interests

- Reinforcement Learning, Machine Learning

Publications

Synthesize Policies for Transfer and Adaptation across Environments and Tasks
Hexiang Hu*, **Liyu Chen***, Boqing Gong, Fei Sha
Neural Information Processing Systems (NIPS), 2018 (Spotlight)

Research Experience

Extending the RLLAB Benchmark of Deep Reinforcement Learning for Continuous Control (Final Year Thesis) *June 2016 – June 2017*

- **Under supervision of Prof Dit-Yan Yeung**
- New continuous tasks were implemented on RLLAB platform to overcome the current limitation of RLLAB benchmark, including random events and memory-demanding tasks.

Knowledge Discovery over Database *February 2015 – December 2015*

- **Under supervision of Prof WONG Raymond Chi Wing**
- Datamined 20 gigabytes of database for patterns with commercial value for RADICA marketing company. Analyzed database structure and useful information.
- Categorized e-mail titles and discovered patterns within categories using various algorithms such as Apriori, TF-IDF.

- Crawled and preprocessed Google search results to extend training dataset for a content-based e-mail title classifier.
- Result: Obtained highly comprehensible keyword set for each category. Combined with an advanced classifier, an error rate of less than 30% was achieved.

Traffic Bottleneck Discovery *September 2014 – December 2014*

- **Under supervision of Prof Pan Hui**
- Modeled correlation traffic congestion patterns within Beijing city based on independent cascade(IC) model using real GPS taxi datasets.
- Derived an approximation algorithm using probability method to calculate the expected “influence” of each region (formulated as J-MAX Seed Problem) in IC network without sampling.
- Result: The computation time was reduced from 3 days to 30 minutes with the same result as the sampling algorithm.

Professional Skills

- C++ (Proficient)
- Python (Proficient)