

Qing Wang

Resume

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GitHub: <https://github.com/KeSyren>

Interests

Interactive Recommender Systems; Multi-armed Bandit Algorithm; Text Mining;

Experience

Industry Experience

- 2017.5- **Research Intern, IBM T.J Watson Research Center**, New York, NY, USA.
- 2017.7
 - Online IT Automation Recommendation Using Hierarchical Multi-armed Bandit Algorithms. (SDM 2018)
 - Propose a new online learning algorithm, hierarchical multi-armed bandit algorithm for IT automation recommendation;
 - Implement these online algorithms and conduct comparative experiments on a large-scale real ticket dataset collected from IBM Global Services.
- 2016.6- **Research Intern, IBM T.J Watson Research Center**, New York, NY, USA.
- 2016.8
 - Constructing the Knowledge Base for Cognitive IT Service Management. (Best Student Paper Award of IEEE SCC 2017)
 - Propose an integrated framework for ticket resolution recommendation;
 - Construct a domain knowledge base using ontology.
- 2011.8- **Software Engineer Intern, Collaboration And Deployment Services Team(CADS)**,
- 2012.5 **IBM SPSS**, Xi'an, China.
 - Designed and implemented an automatic testing framework for CADS platform using IBM Rational Functional Tester. This framework can help customize test cases with a XML configuration file, and execute them automatically.
 - Implemented a control locating module, an action verifying module, and the XML parser module.

Academic Experience

- 2014.8- **Research Assistant, Knowledge Discovery Research Group, FIU, USA.**
- Present
 - **Event Mining.** Designed and implemented a **frequent-itemset mining module** of the online Event Mining system. This module is able to discover some interesting frequent patterns from event data.
 - **Tag Recommendation.** Studied and implemented a tag recommendation algorithm to label newly posted questions with a set of tags on StackOverflow.
 - **Medical Image Annotation.** Studied the medical image annotation problem and solved it using the hierarchical multi-label classification algorithm to classify an image according to the IRMA code hierarchically organized.

Programming Skills

Languages: Java (proficient), Python (familiar), Javascript (familiar) Frameworks: Apache Hadoop, Map Reduce, Tomcat, jQuery

Selected Publications

1. **Qing Wang**, Chunqiu Zeng, S. S. Iyengar, Tao Li, Larisa Shwartz, Genady Ya. Graharnik, "AISTAR: An Intelligent Integrated System for Online IT Ticket Automation Recommendation", In Proceeding of the 24th annual ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2018), London, British, 2018. (submitted)
2. **Qing Wang**, Wubai Zhou, Chunqiu Zeng, Tao Li, Larisa Shwartz, Genady Ya. Graharnik, "A Knowledge-Based Deep Ranking Model for Cognitive IT Service Management", In the IEEE Transactions on Service Computing (TSC 2018) (submitted).
3. **Qing Wang**, Chunqiu Zeng, Wubai Zhou, Tao Li, S. S. Iyengar, Larisa Shwartz, Genady Ya. Graharnik, "Online Interactive Collaborative Filtering Using Multi-armed Bandit with Dependent Arms", In the IEEE Transactions on Knowledge and Data Engineering (TKDE 2017) (under revision).
4. **Qing Wang**, Tao Li, S. S. Iyengar, Larisa Shwartz, Genady Ya. Graharnik, "Online IT automation recommendation Using Hierarchical Multi-armed Bandit Algorithms", SIAM International Conference on Data Mining (SDM 2018), San Diego, California, USA, 2018.
5. Wei Xue, Wubai Zhou, Tao Li, **Qing Wang**, "MTNA: A Neural Multi-Task Model for Aspect Category Classification and Aspect Term Extraction on Restaurant Reviews", In Proceeding of the 8th International Joint Conference on Natural Language Processing (IJCNLP 2017), Taipei, Taiwan, 2017.
6. **Qing Wang**, Wubai Zhou, Chunqiu Zeng, Tao Li, Larisa Shwartz, Genady Ya. Graharnik, "Constructing the Knowledge Base for Cognitive IT Service Management", In Proceeding of the 14th IEEE International Conference on Services Computing (IEEE SCC 2017), Honolulu, Hawaii, USA, 2017. **[Best Student Paper Award]**
7. Wubai Zhou, Wei Xue, Ramesh Baral, **Qing Wang**, Chunqiu Zeng, Tao Li, Jian Xu, Zhen Liu, Larisa Shwartz, Genady Ya. Graharnik, "STAR: A System for Ticket Analysis and Resolution", In Proceeding of the 23rd annual ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2017), Halifax, Nova Scotia, Canada, 2017.
8. Chunqiu Zeng, **Qing Wang**, Shekoofeh Mokhtari, Tao Li, "Online Context-Aware Recommendation with Time Varying Multi-Armed Bandit", In Proceeding of the 22nd annual ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2016), San Francisco, USA, 2016.
9. Tao Li, Wubai Zhou, Chunqiu Zeng, **Qing Wang**, Qifeng Zhou, Dingding Wang, Yue Huang, Jia Xu, Wentao Wang, Minjing Zhang, Steve Luis, Shu-Ching Chen and Naphtali Rishe, "DI-DAP: An Efficient Disaster Information Delivery and Analysis Platform in Disaster Management" (CIKM 2016), Indianapolis, USA, 2016.
10. Chunqiu Zeng, **Qing Wang**, Wentao Wang, Tao Li, Larisa Shwartz, "Online Inference for Time-varying Temporal Dependency Discovery from Time Series", (IEEE Big Data 2016), Washington D.C., USA.
11. Tao Li, Chunqiu Zeng, Wubai Zhou, Wei Xue, Yue Huang, Zheng Liu, Qifeng Zhou, Bin Xia,

Qing Wang, Wentao Wang, Xiaolong Zhu, “FIU-Miner (a fast, integrated, and user-friendly system for data mining) and its applications”, Knowledge and Information Systems, 2016.

Honors

1. The Winner of Poster Presentation in Engineering Computing of **GSAW 2017 Scholarly Forum**. (Mar. 2017)
2. 2017 IEEE SCC **Best Student Paper Award**. (Jun. 2017)
3. FIU GPSC **Student Travel Award**. (Jul. 2017)
4. 2017 SIGKDD **Student Travel Award**. (Jul. 2017)
5. 2018 SIAM **Student Travel Award**. (May. 2018)

Education

- 2014-Now **Ph.D. in Computer Science**, *Florida International University*, Miami, FL, U.S.A..
GPA: 3.79/4.0 Research Area: Large-scale Data Mining, Recommender Systems, Text Mining
- 2010-2013 **M.S. in Computer Science**, *Xidian University*, Xi'an, Shaan'xi, China.
GPA: 3.3/4.0
- 2005-2009 **B.E. in Computer Science**, *Zhengzhou University*, Zhengzhou, Henan, China.
GPA: 3.6/4.0