YIFAN YANG

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Huazhong University of Science and Technology

EDUCATION

Huazhong University of Science and Technology   *August 2017-June 2021*
B.S. in Electric and Information Engineering
Overall GPA: 88.9/100(3.89/4)

PUBLICATIONS

[1] Yifan Yang, Jie Xu, Zichuan Xu, Pan Zhou and Tie Qiu "Quantile context-aware social IoT service big data recommendation with D2D communication", *IEEE Internet of Things Journal*, vol. 7, no. 6, pp. 5533-5548.

[2] Yifan Yang, Pan Zhou, Zichuan Xu, Kun Kuang, Chao Wu and Kaigui Bian "Adaptive Online Convex Optimization with Stochastic Constraints", AISTATS 2021, [Online] https://www.dropbox.com/s/morj0czsmxb50jl/AISTATS_yifan.pdf?dl=0 (**Under Submission**).

EXPERIENCE

Research Assistant   Oct. 2018 - Present
Wuhan National Laboratory for Optoelectronics, PRC   *Supervisor: Prof. Pan Zhou*

Project 1: IoT service recommendation system with statistical machine learning algorithm.

· Propose the first tree-based quantile bandits algorithm to deal with both quantifiable and unquantifiable big data in the IoT network.
· Design a personalized service data retrieval system to solve the recommendation problem.
· Propose a novel quantile concentration inequity to analyze our algorithm and prove a sublinear regret bound for the algorithm.
· Collecte real-world services data and verified our system on the data on the MATLAB platform.
· The detail of this project is reported in my first publication.

Project 2: Statistical machine learning research about adaptive online convex optimization with constraints.

· Developing an algorithm considering adaptive problem with stochastic constraints.
· Theatrical analysis of the bound for the regret and constraints by bringing in multi-objective drift analysis.
· By definition the loss function as a linear function, we give the first regret lower bound for the adaptive algorithm based on the following-the-leading-history framework.
· Simulate the performance of the algorithm with Python.
· The detail of this project is reported in my second publication, which is under submission recently.

HONORS AND AWARDS

Learning Merit Scholarship   2017-2018
· Top 10% among all undergraduates in School of Electronic Information and Communication.

Learning Merit Scholarship   2017-2018

· Top 10% among all undergraduates in School of Electronic Information and Communication.

National Encouragement Scholarship Dec. 2018

· Top 3% among all undergraduates in school of School of Electronic Information and Communication.

TECHNICAL STRENGTHS

Programming Languages	Python(Proficient), C(Proficient), Matlab(Proficient), JAVA (Familiar), SQL(Familiar)
Software & Tools	Latex, Eclipse, PyCharm, Visual Studio, CodeBlocks, Github
English	TOEFL 97, GRE 320