

LIN YANG

LGRC A325, 140 Governors Dr., University of Massachusetts, Amherst, MA 01003.

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EDUCATION

Ph.D. in Information Engineering The Chinese University of Hong Kong, Hong Kong. Advisor: Wing Shing Wong (FIEEE) Thesis: Competitive and Regret Analysis for Online Optimization	August 2015 - August 2018
Master in Automatic Control University of Science and Technology of China, Hefei. Advisor: Jin Zhu	August 2012 - June 2015
Bachelor in Information Science University of Science and Technology of China, Hefei.	August 2008 - June 2012

EMPLOYMENT

Postdoc Fellow in College of Information & Computer Science, UMass Amherst January 2020 - Pres. Advisor: Donald F. Towsley, Mohammad Hajiesmaili	
Postdoc Fellow in IE, CUHK Advisor: Wing Shing Wong	October 2018 - December 2019

RESEARCH INTERESTS

**Performance Analysis, Modeling, and Algorithm Design for Computing Systems;
Learning Theory, Online Optimization**

HONORS AND AWARDS

CDS Postdoctoral Fellowship (UMass Amherst)	2020
ACM SIGMETRICS Student Travel Grant	2018
Best Teaching Assistant Award <i>Awarded by IE Department of CUHK</i>	2016
Excellent Graduate <i>Awarded by the Education Department of Anhui Province</i>	2015
China National Scholarship <i>Awarded by the Chinese Government</i>	2014
Guanghua Scholarship <i>Awarded by the Chinese Academy of Science</i>	2013

TEACHING EXPERIENCE

ENGG1110D Problem Solving by Programming	<i>Fall 2015</i>
ENGG2430B Probability and Statistics for Engineers	<i>Spring 2016</i>
CSCI1140 Programming Laboratory	<i>Fall 2016</i>
ENGG2430C Probability and Statistics for Engineers	<i>Spring 2017</i>
CSCI1140 Programming Laboratory	<i>Fall 2017</i>
CSCI2100D Data Structure	<i>Spring 2018</i>

– Preprints

[1] **Lin Yang**, Mohammad Hajiesmaili, John CS Lui, Wing Shing Wong. “Non-stochastic Multi-armed Bandits with Targeted Corruptions.”

– Journal and Conference Publications

[2] **Lin Yang**, Mohammad Hajiesmaili, Ramesh Sitaraman, Adam Wierman, Enrique Mallada, Wing Shing Wong. “Online Linear Optimization with Inventory Management Constraints.” Proceedings of the 2020 ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS).

Journal version: Proceedings of the ACM on Measurement and Analysis of Computing Systems (POMACS), 3(2), Forthcoming.

[3] **Lin Yang**, Mohammad H. Hajiesmaili, and Wing Shing Wong. “Online Linear Programming with Uncertain Constraints.” Proceedings of The 53rd Annual Conference on Information Sciences and Systems (CISS), 2019. (Invited Paper)

[4] Cheng Tan, **Lin Yang**, Fangfang Zhang, Zhengqiang Zhang and Wing Shing Wong. “Stabilization of discrete time stochastic system with input delay and control dependent noise.” Systems & Control Letters, 123, 62–68, 2019. Elsevier.

[5] **Lin Yang**, Lei Deng, Mohammad H. Hajiesmaili, Cheng Tan and Wing Shing Wong. “An Optimal Algorithm for Online Non-convex Learning.” Proceedings of the 2018 ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS).

Journal version: Proceedings of the ACM on Measurement and Analysis of Computing Systems (POMACS), 2018, 2(2): 25.

[6] Jin Zhu, Tong Luo, **Lin Yang**, Wanqing Xie, and G. E. Dullerud. An average queue-length-difference-based congestion detection algorithm in TCP/AQM network. International Journal of Adaptive Control and Signal Processing, 2018.

[7] **Lin Yang**, Wing Shing Wong, and Mohammad H. Hajiesmaili. “An Optimal Randomized Online Algorithm for QoS Buffer Management.” Proceedings of the 2018 ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS).

Journal version: Proceedings of the ACM on Measurement and Analysis of Computing Systems (POMACS), 2017, 1(2): 36.

[8] Cheng Tan, Changbao Xu, **Lin Yang**, and Wing Shing Wong. Gittins index based control policy for a class of pursuit-evasion problems. IET Control Theory and Applications, 12(1), 110-118, 2017.

[9] **Lin Yang**, Mohammad H. Hajiesmaili, Hanling Yi, and Minghua Chen. “Hour-Ahead Offering Strategies in Electricity Market for Power Producers with Storage and Intermittent Supply”. Proceedings of the 2017 ACM SIGMETRICS/International Conference on Measurement and Modeling of Computer Systems, 2017. (Short Paper)

[10] **Lin Yang**, Jin Zhu, Wanqing Xie, and G. E. Dullerud. “Time Series Analysis for Congestion Detection in TCP/AQM Networks”. IEEE Communications Letters, 19(3), 331-334, 2015.

[11] Jin Zhu, Limin Xu, **Lin Yang**, and Wanqing Xie. An optimal vertical handoff decision algorithm for multiple services with different priorities in heterogeneous wireless networks. Wireless Personal Communications, 83(1), 527-549, 2015.

[12] **Lin Yang**, Jin Zhu, Wanqing Xie, and Xiaobin Tan. “Stable tuning for random early detection algorithm”. Proceedings of The 33rd Chinese Control Conference (CCC), 2014.

[13] **Lin Yang**, Jin Zhu, Liang Tang, Xita Hu, and Xiaobin Tan. “An adaptive resource reservation approach in packet-switched Wireless Mesh Networks”. Proceedings of The 32nd Chinese Control Conference (CCC), 2013.