

# LIN YANG

The Chinese University of Hong Kong, Shatin, N.T., Hong Kong.  
+852 55737416 ◇ yl015@ie.cuhk.edu.hk

## EDUCATION

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<b>Bachelor in Information Security</b> University of Science and Technology of China, Hefei.	August 2008 - June 2012
<b>Master in Automatic Control</b> University of Science and Technology of China, Hefei. Advisor: Jin Zhu	August 2012 - June 2015
<b>Ph.D in Information Engineering</b> The Chinese University of Hong Kong, Hong Kong. Advisor: Wing Shing Wong (FIEEE)	August 2015 - August 2018 (Expected)

## RESERT INTERESTS

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**Networking, Online Algorithms, Machine Learning.**

## PROJECTS

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<b>Congestion Detection in TCP/AQM Networks</b> <i>Major Project</i> Analyze the performance and dynamics of congestion dection/control algorithms in TCP/AQM networks.	July 2012 - April 2015
<b>Online Algorithms</b> <i>Major Project</i> Study online algorithms in recent engineering scenarios, as online QoS Buffer Management, cost minimization in data centers and microgrids etc.	August 2015 - June 2016
<b>Machine Learning</b> <i>Major Project</i> Study efficient learning algorithms under classic convex/non-convex optimization framework, and analyze their performance bounds.	August 2016 - Pres.

## HONORS AND AWARDS

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<b>ACM SIGMETRICS Student Travel Grant</b>	2018
<b>Best Teaching Assistant Award</b> <i>Awarded by IE Department of CUHK</i>	2016
<b>Excellent Graduate</b> <i>Awarded by the Education Department of Anhui Province</i>	2015
<b>China National Scholarship</b> <i>Awarded by the Chinese government</i>	2014
<b>Guanghua Scholarship</b> <i>Awarded by the Chinese Academy of Science</i>	2013
<b>“RoboGame” Runner-up</b> <i>Awarded by University of Science and Technology of China</i>	2011

## TEACHING EXPERIENCE

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

## PUBLICATIONS

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- [1] **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.
- [2] 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.
- [3] **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.
- [4] 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.
- [5] **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. ACM, 2017. (Extended Abstract)
- [6] **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.
- [7] 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.
- [8] **Lin Yang**, Jin Zhu, Wanqing Xie, and Xiaobin Tan. “Stable tuning for random early detection algorithm”. In Control Conference (CCC), 2014 33rd Chinese (pp. 5470-5475). IEEE.
- [9] **Lin Yang**, Jin Zhu, Liang Tang, Xita Hu, and Xiaobin Tan. “An adaptive resource reservation approach in packet-switched Wireless Mesh Networks”. In Control Conference (CCC), 2013 32nd Chinese (pp. 2497-2502). IEEE.