Lifeng Zhou

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Education

Virginia Tech, Blacksburg, USA
Ph.D. in Electrical & Computer Engineering, August 2016–Present
Advisor: Pratap Tokekar

Shanghai Jiao Tong University, Shanghai, China
M.S. in Control Science & Engineering, September 2013
Advisor: Shaoyuan Li

Huazhong University of Science & Technology, Wuhan, China
B.S. in Automation, September 2009

Experience

Research Assistant, August 2016–Present
Dept. of Electrical & Computer Engineering, Virginia Tech, Blacksburg, USA
Advisor: Pratap Tokekar

Research Assistant, September 2013–March 2016
Key Laboratory of System Control & Information Processing, Shanghai, China
Advisor: Shaoyuan Li

Research Intern, January 2015–March 2015
GE China Power Conversion, Shanghai, China
Group Leader: Polly Xu

Research Assistant, July 2012–September 2012
Key Laboratory of Industrial Automation, Wuhan, China
Advisor: Anwen Shen

Teaching

Teaching Assistant
Dept. of Electrical & Computer Engineering, Virginia Tech, Blacksburg, USA
ECE 4405: Control Systems, Fall 2016

Publications

Journal Articles
Under Review
[*J8*] **L. Zhou**, V. Tzoumas, G. J. Pappas and P. Tokekar, "Resilient Active Target Tracking with Multiple Robots," *IEEE Robotics and Automation Letters (RA-L)*, Note: Submitted.
[*J7*] Z. Zhang, J.Lee, JM Smereka, Y. Sung, **L. Zhou** and P. Tokekar, "Minimizing detectability and maximizing visibility," *IEEE Robotics and Automation Letters (RA-L)*, Note: Submitted.
[*J6*] Z. Zhang, **L. Zhou** and P. Tokekar, "Strategies to Inject Spoofed Measurement Data," *IEEE Transactions on Automatic Control*, Note: Submitted.
[*J5*] **L. Zhou**, and P. Tokekar, "Sensor Assignment Algorithms to Improve Observability while Tracking Targets," *IEEE Transactions on Robotics*, Note: Submitted.

Published

[*J4*] **L. Zhou**, and P. Tokekar, "Active Target Tracking with Self-Triggered Communications in Multi-Robot Teams," *IEEE Transactions on Automation Science and Engineering*, Note: To Appear.

[*J3*] **L. Zhou**, and S. Li, "Distributed model predictive control for multi-agent flocking via neighbor screening optimization," *International Journal of Robust and Nonlinear Control*, 27(9): pp. 1690-705, 2017.

[*J2*] **L. Zhou**, and S. Li, "Distributed model predictive control for consensus of sampled-data multi-agent systems with double-integrator dynamics," *IET Control Theory & Applications*, 9(12): pp. 1774-80, 2015.

[*J1*] L. Peng, A. Shen, N. Zhang and **L. Zhou**, "Application of Industrial Embedded System Upgrade Technology Based on Wireless IAP," *Instrument Technique and Sensor*, No. 12, 2013.

Refereed Conference Publications

[*C4*] **L. Zhou**, and P. Tokekar, "An Approximation Algorithm for Risk-averse Submodular Optimization," *Workshop on the Algorithmic Foundations of Robotics (WAFR 2018)*. Note: To Appear.

[*C3*] Z. Zhang, **L. Zhou**, and P. Tokekar, "Strategies to Design Signals to Spoof Kalman Filter," *IEEE American Control Conference (ACC 2018)*, 2018. Note: To Appear.

[*C2*] **L. Zhou**, and P. Tokekar, "Active Target Tracking with Self-Triggered Communications," *IEEE International Conference on Robotics and Automation (ICRA 2017)*, 2017.

[*C1*] **L. Zhou**, and S. Li, "Cooperative control of linear systems with coupled constraints via distributed model predictive control," *IEEE Chinese Control Conference (CCC 2015)*, 2015.

Refereed Workshop Publications

[*W1*] **L. Zhou**, and P. Tokekar, "A Lower Bound on Observability for Target Tracking with Range Sensors and its Application to Sensor Assignment," *IEEE International Conference on Robotics and Automation (ICRA 2017) Workshop on Multirobot Perception-driven Control and Planning*, 2017.

Review	TRO, JFR, JFI, ICRA, IROS

Honors

Graduate Fellowship
Research Assistant Scholarships, Virginia Tech, Blacksburg, USA, Fall 2016–Present
National Scholarship of China (1/121), Shanghai Jiao Tong University, Shanghai, China, 2015

Undergraduate Fellowship
National Endeavor Fellowship of China (3/226), Huazhong University of Science & Technology, Wuhan, China, 2010

References Available Upon Request (Last updated: September 19, 2018)