## 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

 $Under\ Review$ 

[J6] Z. Zhang, **L. Zhou** and P. Tokekar, "Strategies to Inject Spoofed Measurement Data," *IEEE Transactions on Automatic Control*, Note: submitted.

Published and Accepted

[J5] **L. Zhou**, and P. Tokekar, "Sensor Assignment Algorithms to Improve Observability while Tracking Targets," *IEEE Transactions on Robotics (T-RO)*, 2019, Note: to appear.

[J4] L. Zhou, V. Tzoumas, G. J. Pappas and P. Tokekar, "Resilient Active Target Tracking with Multiple Robots," *IEEE Robotics and Automation Letters* and *IEEE International Conference on Robotics and Automation (RA-L+ICRA)*, 2019.

- [J3] L. Zhou, and P. Tokekar, "Active Target Tracking with Self-Triggered Communications in Multi-Robot Teams," *IEEE Transactions on Automation Science and Engineering (T-ASE)*, 2018.
- [J2] 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.
- [J1] 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.

## Refereed Conference Articles

- [C6] L. Zhou, and P. Tokekar, "An Approximation Algorithm for Distributed Resilient Submodular Maximization," *The 2nd International Symposium on Multi-Robot and Multi-Agent Systems (MRS)*, 2019, Note: submitted.
- [C5] Z. Zhang, J.Lee, JM Smereka, Y. Sung, **L. Zhou** and P. Tokekar, "Minimizing detectability and maximizing visibility," *IEEE International Conference on Robotics and Automation (ICRA)*, 2019.
- [C4] **L. Zhou**, and P. Tokekar, "An Approximation Algorithm for Risk-averse Submodular Optimization," Workshop on the Algorithmic Foundations of Robotics (WAFR), 2018.
- [C3] Z. Zhang, L. Zhou, and P. Tokekar, "Strategies to Design Signals to Spoof Kalman Filter," *IEEE American Control Conference (ACC)*, 2018.
- [C2] L. Zhou, and P. Tokekar, "Active Target Tracking with Self-Triggered Communications," *IEEE International Conference on Robotics and Automation (ICRA)*, 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.

#### 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) Workshop on Multi-robot Perception-driven Control and Planning*, 2017.

## Review

TRO, RAL, JFR, RAS, JFI, ToC, ICRA, IROS, WARF, ACC

## 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%), Huazhong University of Science & Technology, Wuhan, China, 2010

References Available Upon Request (Last updated: May 25, 2019)