
Education	Nanyang Technological University, Singapore Doctor of Philosophy (PhD), Electrical and Electronic Engineering <ul style="list-style-type: none">- Thesis: Augmented Distributed Optimization for Networked Systems- Advisor: Prof. Yeng Chai Soh (Co: Prof. Lihua Xie) Shandong University, Jinan, China Bachelor of Science (BSc), Mechanical Engineering <ul style="list-style-type: none">- Ranking: 9/204- Excellent Undergraduate Thesis Award (<i>top 5%</i>), 2009	2011-2016 2005-2009
Research Interests	<ul style="list-style-type: none">- Distributed optimization and control, and its application into large-scale signal processing, machine learning and networked dynamic systems.	
Academic Positions	<ul style="list-style-type: none">- Research Fellow, <i>Nanyang Technological University</i>, Singapore, 9/2016-Present,- Project Officer, <i>Nanyang Technological University</i>, Singapore, 8/2015-8/2016,- Research Assistant, <i>Zhejiang University</i>, China, 9/2009-8/2011.	
Honors & Awards	<ul style="list-style-type: none">- NTU RSS Scholarship, 2011- Excellent Undergraduate Thesis Award (<i>top 5%</i>), 2009- Outstanding Student Scholarship (<i>top 5%</i>), 2006-2008	
Project Experience	<p>Distributed Optimization for Sensor Networks [J1, 3, 5; C2, 3, 4, 6] 5/2013-Present</p> <ul style="list-style-type: none">- Developed <i>several novel distributed algorithms</i> for multi-agent optimization problems,- Achieved the <i>best convergence rates</i> for these proposed algorithms,- Applied to large-scale (stochastic) networks for sensor fusion and resource allocation. <p>Distributed Optimization for Networked Systems [J2; C1] 8/2011-8/2015</p> <ul style="list-style-type: none">- Designed a <i>new distributed derivative-free scheme</i> for networked dynamic optimization,- Proposed a <i>primal-dual</i> extremum seeking approach accounting for <i>unknown constraints</i>,- Applied the proposed scheme to wind farms for energy maximization. <p>Occupancy Modeling for Optimal HVAC Control [J4] 9/2012-5/2013</p> <ul style="list-style-type: none">- Proposed <i>new stochastic models</i> for occupancy modeling and prediction,- Designed <i>distributed model predictive control schemes</i> for large-scale HVAC systems.	
Publications	Journal Articles	
	<p>J1 Jinming Xu, Shanying Zhu, Yeng Chai Soh and Lihua Xie, “Convergence of Asynchronous Distributed Gradient Methods over Stochastic Networks,” conditionally accepted by <i>IEEE Transactions on Automatic Control</i> (Regular).</p> <p>J2 Jinming Xu and Yeng Chai Soh, “A Distributed Simultaneous Perturbation Approach for Large-scale Dynamic Optimization Problems,” <i>Automatica</i> 72 (2016): 194-204 (Regular).</p> <p>J3 Jinming Xu, Shanying Zhu, Yeng Chai Soh and Lihua Xie, “A Bregman Splitting Scheme for Distributed Optimization over Networks,” submitted to <i>IEEE Transactions on Automatic Control</i> (Regular) http://arxiv.org/abs/1608.08031.</p>	

- J4 Zhenghua Chen, **Jinming Xu**, Yeng Chai Soh, “Modeling Regular Occupancy in Commercial Buildings Using Stochastic Models”, *Energy and Buildings* 103 (2015): 216-223.
- J5 **Jinming Xu**, Shanying Zhu, Yeng Chai Soh and Lihua Xie, “A General Primal-Dual Splitting Algorithm for Distributed Composite Optimization,” *Working Paper*.

Conference Proceedings

- C1 **Jinming Xu** and Yeng Chai Soh, “Distributed Extremum Seeking Control of Networked Large-scale Systems under Constraints,” In *Proceedings of 52nd IEEE Conference on Decision and Control (CDC)*, 2013.
- C2 **Jinming Xu**, Shanying Zhu, Yeng Chai Soh and Lihua Xie, “Augmented Distributed Gradient Methods for Multi-agent Optimization under Uncoordinated Constant Stepsizes,” In *Proceedings of 54th IEEE Conference on Decision and Control (CDC)*, 2015.
- C3 **Jinming Xu**, Shanying Zhu, Yeng Chai Soh and Lihua Xie, “A Forward-Backward Bregman Splitting Scheme for Regularized Distributed Optimization Problems,” In *Proceedings of 55th IEEE Conference on Decision and Control (CDC)*, 2016.
- C4 Shanying Zhu, **Jinming Xu**, Cailian Chen and Xinping Guan, “A Least Square Approach for Distributed Sensor Fusion in Bandwidth-constrained Sensor Networks,” In *Proceedings of 41st IEEE Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2016.
- C5 Shanying Zhu, **Jinming Xu**, Cailian Chen, Xinping Guan and Binqiang Xue, “DINS: A Scheme for Distributed Sensor Fusion over Fading Channels,” accepted by *International Federation of Automatic Control (IFAC)*, 2017.
- C6 **Jinming Xu**, Shanying Zhu, Yeng Chai Soh and Lihua Xie, “A Dual Splitting Algorithm for Distributed Resource Allocation Problems,” submitted to CDC2017.

Professional Activities

- Publication Reviewing: IEEE TAC • IEEE TCNS • NetSys • CDC • etc.
- Memberships: IEEE Member (since 2011) • IEEE Control Systems Society (since 2013).

References Available upon request.