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<b>Education</b>	Nanyang Technological University, Singapore Doctor of Philosophy (PhD), <a href="#">Electrical and Electronic Engineering</a> <ul style="list-style-type: none"><li>- Thesis: <a href="#">Augmented Distributed Optimization for Networked Systems</a></li><li>- Advisor: Prof. <a href="#">Yeng Chai Soh</a> (Co: Prof. <a href="#">Lihua Xie</a>)</li></ul> Shandong University, Jinan, China Bachelor of Science (BSc), <a href="#">Mechanical Engineering</a> <ul style="list-style-type: none"><li>- Ranking: 9/204</li><li>- Excellent Undergraduate Thesis Award (<i>top 5%</i>), 2009</li></ul>	2011-2016      2005-2009
<b>Research Interests</b>	- Distributed optimization, cooperative control, and their applications into large-scale signal processing, machine learning and networked energy systems.	
<b>Academic Positions</b>	- 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.	
<b>Honors &amp; Awards</b>	- NTU RSS Scholarship, 2011 - Excellent Undergraduate Thesis Award ( <i>top 5%</i> ), 2009 - Outstanding Student Scholarship ( <i>top 5%</i> ), 2006-2008	
<b>Project Experience</b>	Distributed Optimization for Sensor Networks [ <a href="#">J2</a> , <a href="#">J3</a> , <a href="#">C2</a> , <a href="#">C3</a> , <a href="#">C4</a> ] 5/2013-Present <ul style="list-style-type: none"><li>- Developed <i>two novel distributed algorithms</i> for multi-agent optimization problems,</li><li>- Achieved the <i>best convergence rates</i> for the proposed algorithms,</li><li>- Applied to large-scale sensor networks for sensor fusion under random link failures.</li></ul> Distributed Optimization for Large-Scale Dynamic Systems [ <a href="#">J1</a> , <a href="#">C1</a> ] 8/2011-8/2015 <ul style="list-style-type: none"><li>- Designed a <i>new distributed scheme</i> for optimization of large-scale networked systems,</li><li>- Proposed a <i>primal-dual</i> extremum seeking approach accounting for <i>unknown constraints</i>,</li><li>- Applied the proposed scheme to wind farms for energy maximization.</li></ul> Occupancy Modeling for Optimal HVAC Control [ <a href="#">J4</a> ] 9/2012-5/2013 <ul style="list-style-type: none"><li>- Proposed <i>new stochastic models</i> for occupancy modeling and prediction,</li><li>- Designed <i>distributed model predictive control schemes</i> for large-scale HVAC systems.</li></ul>	
<b>Publications</b>	Journal Articles	
	J1 <b>Jinming Xu</b> and Yeng Chai Soh, “A Distributed Simultaneous Perturbation Approach for Large-scale Dynamic Optimization Problems,” <i>Automatica</i> 72 (2016): 194-204 ( <a href="#">Regular</a> ).	
	J2 <b>Jinming Xu</b> , Shanying Zhu, Yeng Chai Soh and Lihua Xie, “A Bregman Splitting Algorithm for Distributed Optimization Problems over Networks,” submitted to <i>IEEE Transactions on Signal Processing</i> (Regular, revised and resubmitted, <a href="#">arxiv</a> ).	
	J3 <b>Jinming Xu</b> , Shanying Zhu, Yeng Chai Soh and Lihua Xie, “Convergence of Asynchronous Distributed Gradient Methods over Stochastic Networks,” submitted to <i>IEEE Transactions on Automatic Control</i> (Regular, revised and resubmitted).	
	J4 Zhenghua Chen, <b>Jinming Xu</b> , Yeng Chai Soh, “Modeling Regular Occupancy in Commercial Buildings Using Stochastic Models”, <i>Energy and Buildings</i> 103 (2015): 216-223.	

## 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,” accepted by *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,” submitted to *International Federation of Automatic Control (IFAC)*, 2017.

## Professional

### Activities

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

### References

Available upon request.