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EDUCATION	Ph.D. in Electrical Engineering (minor in CS), Iowa State University, Ames IA, 4.0/4.0  12/2014		
	B. S. in Automation, Zhejiang University, Hangzhou China	06/2009 12/2014	
	Accomplishment Certificate for Machine Learning, Coursera	12/2014	
RESEARCH INTERESTS	Systems and Control: Model predictive control, optimal control, stochastic processes, event-triggered control		
	Artificial Intelligence: Reinforcement learning, deep learning, time series, generative adversary network		
	Automotive Systems: Autonomous vehicle, electric vehicle, battery control, vehicle dynamics, co-simulation		
	Energy Systems: Hybrid energy systems, renewable energy, power electronic, battery, economic analysis		
	Discrete Event and Hybrid Systems: failure diagnosis and prognosis, resiliency analysis, verification		
	time temporal logic		
EMPLOYMENT	Assistant Professor, ECE Deptartment, Oakland University, Rochester MI, USA	08/2020-present	
	Senior Control Systems Engineer, General Motors, Milford MI, USA	01/2017-08/2020	
	R&D Scientist in Power and Energy Systems, Idaho National Laboratory, ID, USA	11/2014–12/2016	
	Summer Intern in Software V&V, General Motors R&D, MI, USA	04/2014-07/2014	
	Research Assistant in Stochastic Hybrid Systems, Iowa State University, IA, USA	01/2011-10/2014	
	Teaching Assistant in Electrical Engineering, Iowa State University, IA, USA	01/2011–12/2013	
HONORS AND RECOGNITIONS	Associate Editor, IFAC International Symposium on Advances in Automotive Control	2022	
	IEEE Senior Member	2020	
	Associate Editor, IEEE International Conference on Robotics and Automation	2020	
	IEEE Best Paper Award, IEEE Transactions on Automation Science and Engineering	2016	
	Associate Editor, Energy Systems	2016–present	
	INL Publication Achievement Award, Idaho National Laboratory	2016	
	INL Exceptional Contributions Program Award, Idaho National Laboratory	2015 & 2016	
	Research Excellence Award, Iowa State University	2014	
	Student Travel Award, American Control Conference	2014	
	Professional Development Grants (PAG), Iowa State University	2014	
	Third Class Scholarship for Undergraduate Student, Zhejiang University	2008	
	Outstanding Student, Zhejiang University	2008	
PUBLICATIONS	(Students under my close supervision are marked in <u>underline</u> ; corresponding author is marked by *)		

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- [20] **Jun Chen\*** and Junhui Zhao, "Generating Synthetic Wind Speed Scenarios using Artificial Neural Networks for Probabilistic Analysis of Hybrid Energy Systems," *International Journal of Modelling, Identification and Control*, (Accepted for publication)
- [19] Xuan Xie, Guojiang Xiong, **Jun Chen** and Jing Zhang, "Universal Transparent Artificial Neural Network Based Fault Section Diagnosis Models for Power Systems," *Advanced Theory and Simulations*, volume 5, number 4, pages 1–12, April 2022.
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- [19] **Jun Chen\***, Aman Behal and Chong Li, "Active Cell Balancing by Model Predictive Control for Real Time Range Extension," 2021 IEEE Conference on Decision and Control, Austin, TX, December 13–15, 2021.
- [18] **Jun Chen\*** and Zonggen Yi, "Comparison of Event-Triggered Model Predictive Control for Autonomous Vehicle Path Tracking," 2021 IEEE Conference on Control Technology and Applications, San Diego, CA, August 8–11, 2021. (Invited Paper)
- [17] **Jun Chen\*** and Junhui Zhao, "Synthetic Wind Speed Scenarios Generation using Artificial Neural Networks for Probabilistic Analysis of Hybrid Energy Systems," 2021 IEEE International Symposium on Industrial Electronics, Kyoto, Japan, June 20–23, 2021.
- [16] **Jun Chen\***, Man Liang and Xu Ma, "Probabilistic Analysis of Electric Vehicle Energy Consumption Using MPC Speed Control and Nonlinear Battery Model," 2021 IEEE Green Technologies Conference, Denver, CO, April 7–9, 2021.
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- [13] **Jun Chen**, Jong S. Kim and Cristian Rabiti, "Probabilistic Analysis of Hybrid Energy Systems Using Synthetic Renewable and Load Data," *2017 American Control Conference*, Seattle, WA, May 24–26, 2017.

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- [10] Mariam Ibrahim, **Jun Chen** and Ratnesh Kumar, "Quantification of Distributed Secrecy Loss in Stochastic Discrete Event Systems under Bounded-Delay Communications," 2016 IFAC/IEEE International Workshop on Discrete Event Systems, Xi'an, China, May 30 June 1, 2016.
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- [8] **Jun Chen** and Ratnesh Kumar, "Failure Prognosability of Stochastic Discrete Event Systems," 2014 American Control Conference, Portland, OR, June 4–6, 2014.
- [7] **Jun Chen** and Ratnesh Kumar, "Pattern Mining for Predicting Critical Events from Sequential Event Data Log," 2014 IFAC/IEEE International Workshop on Discrete Event Systems, Paris-Cachan, France, May 14–16, 2014.
- [6] Mariam Ibrahim, **Jun Chen** and Ratnesh Kumar, "Secrecy in Stochastic Discrete Event Systems," 2014 *IEEE International Conference on Networking, Sensing and Control*, Miami, FL, April 7–9, 2014.
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- [1] **Jun Chen**, "On the Reliability of MVB Communication Network," Bachelor's Thesis, College of Electrical Engineering, Zhejiang University, China, June 2009.