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EDUCATION	<b>Ph.D. in Electrical Engineering</b> (minor in CS), Iowa State University, Ames IA, 4.0/4.0 12/2014		
	B. S. in Automation, Zhejiang University, Hangzhou China	06/2009	
	Accomplishment Certificate for Machine Learning, Coursera	12/2014	
RESEARCH	Systems and Control: Model predictive control, optimal control, stochastic processes, event-triggered control		
Interests	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		
	Formal Methods: Model-based verification and validation, statistical verification, linear-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	
	<b>R&amp;D Scientist</b> in <i>Power and Energy Systems</i> , 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] Shan Huang and **Jun Chen\***, "Event-triggered Model Predictive Control for Autonomous Vehicle with Rear Steering," 2022 SAE World Congress, Detroit, MI, April 5–7, 2022.
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- [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)
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- [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.
- [15] **Jun Chen\***, Zhaojian Li and Xiang Yin, "Optimization of Energy Storage Size and Operation for Renewable-EV Hybrid Energy Systems," 2021 IEEE Green Technologies Conference, Denver, CO, April 7–9, 2021.
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- [9] Mariam Ibrahim, Jun Chen and Ratnesh Kumar, "An Information Theoretic Measure for Secrecy Loss in Stochastic Discrete Event Systems," 2015 International Conference on Electronics, Computers and Artificial Intelligence – International Workshop on Systems, Safety and Security, Bucharest, Romania, June 25–27, 2015.
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- [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.
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[1] Mariam Ibrahim, **Jun Chen** and Ratnesh Kumar, "Quantification of Centralized/Distributed Secrecy in Stochastic Discrete Event Systems," in *Recent Advances in Systems Safety and Security*, Editors: Emil Pricop and Grigore Stamatescu, Springer, May 2016, ISBN: 978-3-319-32523-1.

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