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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
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		
	Intelligent Vehicles: Autonomous vehicle, electric vehicle, battery control, vehicle dynamics, co-simulation		
	Power & Energy: Hybrid energy systems, renewable energy, power electronics, battery, economic analysis		
	Discrete Event and Hybrid Systems: failure diagnosis and prognosis, resiliency, privacy, verification		
EMPLOYMENT	Assistant Professor, ECE Deptartment, Oakland Univer	sity, Rochester MI, USA	08/2020-present
	Senior Control Systems Engineer, General Motors, Milford MI, USA R&D Scientist in <i>Power and Energy Systems</i> , Idaho National Laboratory, ID, USA		01/2017-08/2020
			11/2014–12/2016
	Summer Intern in Software V&V, General Motors R&D, MI, USA		04/2014-07/2014
	Research Assistant in <i>Stochastic Hybrid Systems</i> , Iowa State University, IA, USA Teaching Assistant in <i>Electrical Engineering</i> , Iowa State University, IA, USA		01/2011-10/2014
			01/2011-12/2013
	Research Assistant in System Identification, University of Central Florida, FL, USA		08/2009–12/2010
HONORS AND	NSF CAREER Award, National Science Foundation		2022
RECOGNITIONS	BEEE Best Paper Award, IEEE Transactions on Automation Science and Engineering Best Paper Award, IEEE International Conference on Electro-Information Technology Faculty Recognition Award for Research, Oakland University Associate Editor, IEEE International Conference on Robotics and Automation		2016
			2023
			2023
			2020
IEEE Senior Member			2020
	Associate Editor, IEEE Conference on Control Technology	ogy and Applications	2023-present
	Associate Editor, IET Cyber-Systems and Robotics		2022-present
	Associate Editor, IFAC International Symposium on Advances in Automotive Control		2022
	Undergraduate Research Competition Winner (my advisee), ASME ICE Division		2022
	INL Publication Achievement Award, Idaho National Laboratory		2016
	Research Excellence Award, Iowa State University		2014
	Student Travel Award, American Control Conference		2014
	Provost Graduate Fellowship, University of Central Florida Third Class Scholarship for Undergraduate Student, Zhejiang University		2009–2010
			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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- [2] Yiran Hu, David Edwards, Michael Paratore Jr, Min Sun, **Jun Chen**, Eugene Gonze and Sergio Quelhas, "Method and Apparatus for Control of Propulsion System Warmup Based on Engine Wall Temperature," U.S. Patent No. 11078825 B2, August 3, 2021.

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- [30] **Jun Chen***, "A Probabilistic Test for A-Diagnosability of Stochastic Discrete-Event Systems with Guaranteed Error Bound," *IEEE Control Systems Letters*, (Accepted for Publication June 2023).
- [29] Mohammad R. Hajidavalloo, Jun Chen*, Qiuhao Hu, Ziyou Song, Xunyuan Yin and Zhaojian Li, "NMPC-based Integrated Thermal Management of Battery and Cabin for Electric Vehicles in Cold Weather Conditions," *IEEE Transactions on Intelligent Vehicles*, (Accepted for Publication May 2023).
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- [19] **Jun Chen***, Aman Behal and Chong Li, "Active Cell Balancing by Model Predictive Control for Real Time Range Extension," *IEEE Conference on Decision and Control*, Austin, TX, USA, December 13–15, 2021.
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- [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.
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- [14] Aaron S. Epiney, Andrea Alfonsi, Cristian Rabiti and **Jun Chen**, "Economic Assessment of Nuclear Hybrid Energy Systems: Optimization using RAVEN," 2017 ANS Annual Meeting, San Francisco, CA, June 11–15, 2017.
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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.
- [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.