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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 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	
	Research Assistant in System Identification, University of Central Florida, FL, USA	08/2009–12/2010	
HONORS AND RECOGNITIONS	NSF CAREER Award, National Science Foundation	2022	
	Faculty Recognition Award for Research, Oakland University	2023	
	Associate Editor, IEEE International Conference on Robotics and Automation	2020	
	IEEE Best Paper Award, IEEE Transactions on Automation Science and Engineering	2016	
	IEEE Senior Member	2020	
	Associate Editor, IEEE Conference on Control Technology and Applications	2023-present	
	Associate Editor, IET Cyber-Systems and Robotics	2022-present	
	Associate Editor, IFAC International Symposium on Advances in Automotive Control	2022-present	
	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	2009–2010	
	Third Class Scholarship for Undergraduate Student, Zhejiang University	2008	
	Outstanding Student, Zhejiang University	2008	

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(Students under my close supervision are marked in <u>underline</u>; corresponding author is marked by *)

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- [23] Ali Irshayyid and Jun Chen*, "Comparative Study of Cooperative Platoon Merging Control Based on Reinforcement Learning," *Sensors*, volume 23, number 2-990, pages 1–23, January 2023.
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- [21] **Jun Chen*** and Ratnesh Kumar, "Stochastic Failure Prognosis of Discrete Event Systems," *IEEE Transactions on Automatic Control*, volume 67, number 10, pages 5487–5492, October 2022.
- [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*, volume 41, number 3, pages 183–192, July 2022.
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- [25] <u>Steven DeCoste</u>, <u>Antonio Scalzi</u>, **Jun Chen*** and Dan DelVescovo*, "Minimizing Steady-State Testing Time in an Engine Dynamometer Laboratory," 2023 SAE World Congress, Detroit, MI, April 18–20, 2023.
- [24] <u>Ranya Badawi</u> and **Jun Chen***, "Performance Evaluation of Event-Triggered Model Predictive Control for Boost Converter," 2022 IEEE Vehicle Power and Propulsion Conference, Merced, CA, November 1–4, 2022.
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- [22] Ranya Badawi and **Jun Chen***, "Enhancing Enumeration-Based Model Predictive Control for DC-DC Boost Converter with Event-Triggered Control," *European Control Conference*, London, UK, July 12–15, 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)
- [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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- [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.
- [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.
- [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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- [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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