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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	
	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		
	Intelligent Vehicles: Autonomous vehicle, electric vehicle, battery control, vehicle dynan		
	Power & Energy : Hybrid energy systems, renewable energy, power electronic, battery, ed	conomic analysis	
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	
	Associate Editor, IEEE International Conference on Robotics and Automation	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	
	IEEE Senior Member	2020	
	IEEE Best Paper Award, IEEE Transactions on Automation Science and Engineering	2016	
	Associate Editor, Energy Systems	2016-present	
	Associate Editor, Journal of Control and Decision	2016–2019	
	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	
	Provost Graduate Fellowship, University of Central Florida	2009–2010	
	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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- [22] **Jun Chen***, Zhaodong Zhou, Ziwei Zhou, Xia Wang and Boryann Liaw, "Impact of Battery Cell Imbalance on Electric Vehicle Range," *Green Energy and Intelligent Transportation*, volume 1, number 3, pages 1–8, December 2022.
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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*, volume 41, number 3, pages 183–192, July 2022.
- [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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- [16] **Jun Chen***, "Extended Kalman Filter Steady Gain Scheduling using *k*-means Clustering," *International Journal of Modelling, Identification and Control*, volume 34, number 2, pages 158–162, February 2020.
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- [14] **Jun Chen**, Qin Wang, Jianming Lian and Wanning Li, "Guest Editorial: Advances in Control and Decision for Power and Energy Systems," *Journal of Control and Decision*, volume 5, number 2, pages 115–116, February 2018.
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- [23] Man Liang and **Jun Chen**, "A Conceptual Design of Barking Drones Fleet Management to Detect and Repulse Cattle," *21st Asia Pacific Automotive Engineering Conference*, Melbourne, Australia, October 3–5, 2022. (Preprint)
- [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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- [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.
- [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.
- [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.
- [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.
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- [11] Mariam Ibrahim, **Jun Chen** and Ratnesh Kumar, "A Resiliency Measure for Electrical Power Systems," 2016 IFAC/IEEE International Workshop on Discrete Event Systems, Xi'an, China, May 30 June 1, 2016.
- [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.
- [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.
- [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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- [2] **Jun Chen** and Ratnesh Kumar, "Polynomial Test for Stochastic Diagnosability of Discrete Event Systems," 2012 IEEE Conference on Automation Science and Engineering, Seoul, Korea, August 20–24, 2012.
- [1] Jun Chen, Jose Suarez, Peter Molnar and Aman Behal, "Maximum Likelihood Parameter Estimation in a Stochastic Resonate-and-Fire Neuronal Model," 2011 IEEE International Conference on Computational Advances in Bio and medical Sciences (ICCABS), Orlando, FL, February 3–5, 2011.

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