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	B. S. in Automation, Zhejiang University, Hangzhou China		06/2009
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 dynamics, co-simulation		
	Power & Energy: Hybrid energy systems, renewable energy, power electronic, battery, economic analysis		
EMPLOYMENT	Assistant Professor, ECE Deptartment, Oakland Universi	ty, 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
	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
	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 Adv	ances 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
PUBLICATIONS	(Students under my close supervision are marked in underline; corresponding author is marked by *)		

**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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- [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)
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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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- [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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- [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.
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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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- [4] **Jun Chen** and Ratnesh Kumar, "Online Failure Diagnosis of Stochastic Discrete Event Systems," 2013 *IEEE Multi-Conference on Systems and Control IEEE Conference on Computer Aided Control System Design*, Hyderabad, India, August 28–30, 2013.
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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.