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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	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 Universi	ty, Rochester MI, USA	08/2020–present
	Senior Control Systems Engineer, General Motors, Milfo	ord MI, USA	01/2017-08/2020
	R&D Scientist in <i>Power and Energy Systems</i> , Idaho Natio	AD Scientist in <i>Power and Energy Systems</i> , Idaho National Laboratory, ID, USA	
Summer Intern in <i>Software V&V</i> , General Motors R&D, MI, USA Research Assistant in <i>Stochastic Hybrid Systems</i> , Iowa State University		MI, USA	04/2014-07/2014
		tate University, IA, USA	01/2011-10/2014
	Teaching Assistant in <i>Electrical Engineering</i> , Iowa State	University, IA, USA	01/2011-12/2013
HONORS AND	Associate Editor, IEEE Conference on Control Technolog	gy and Applications	2023-present
RECOGNITIONS	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
	IEEE Senior Member		2020
	Associate Editor, IEEE International Conference on Robo	otics and Automation	2020
	IEEE Best Paper Award, IEEE Transactions on Automat	ion Science and Engineering	2016
	Associate Editor, Energy Systems		2016–present
	INL Publication Achievement Award, Idaho National Laboratory		2016
	INL Exceptional Contributions Program Award, Idaho Nat	tional 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, Zhejia	ang University	2008
	Outstanding Student, Zhejiang University		2008
-	(0. 1		

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(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* (Accepted August 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*, (Accepted for publication)
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- [23] <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.
- [22] <u>Ranya Badawi</u> 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.
- [21] **Jun Chen***, Xiangyu Meng and Zhaojian Li, "Reinforcement Learning-based Event-Triggered Model Predictive Control for Autonomous Vehicle Path Following," 2022 American Control Conference, Atlanta, GA, June 8–10, 2022.
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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.
- [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.

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- [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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