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EDUCATION	<ul><li>Ph.D. in Electrical Engineering (minor in CS), Iowa State University, Ames IA, 4.0/4.</li><li>B. S. in Automation, Zhejiang University, Hangzhou China Accomplishment Certificate for Machine Learning, Coursera</li></ul>	0 12/2014 06/2009 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 dynamics, co-simulation Power & Energy: 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 University, Rochester MI, USA Senior Control Systems Engineer, General Motors, Milford MI, USA R&D Scientist in Power and Energy Systems, Idaho National Laboratory, ID, USA Summer Intern in Software V&V, General Motors R&D, MI, USA Research Assistant in Stochastic Hybrid Systems, Iowa State University, IA, USA Teaching Assistant in Electrical Engineering, Iowa State University, IA, USA	08/2020-present 01/2017-08/2020 11/2014-12/2016 04/2014-07/2014 01/2011-10/2014 01/2011-12/2013	
HONORS AND RECOGNITIONS	NSF CAREER Award, National Science Foundation Associate Editor, IEEE International Conference on Robotics and Automation Associate Editor, IEEE Conference on Control Technology and Applications Associate Editor, IET Cyber-Systems and Robotics Associate Editor, IFAC International Symposium on Advances in Automotive Control Undergraduate Research Competition Winner (my advisee), ASME ICE Division IEEE Senior Member IEEE Best Paper Award, IEEE Transactions on Automation Science and Engineering Associate Editor, Energy Systems INL Publication Achievement Award, Idaho National Laboratory INL Exceptional Contributions Program Award, Idaho National Laboratory Research Excellence Award, Iowa State University Student Travel Award, American Control Conference Professional Development Grants (PAG), Iowa State University Third Class Scholarship for Undergraduate Student, Zhejiang University Outstanding Student, Zhejiang University	2022 2020 2023-present 2022-present 2022-present 2022 2020 2016 2016-present 2016 2015 & 2016 2014 2014 2014 2008 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\*** and Ratnesh Kumar, "Stochastic Failure Prognosis of Discrete Event Systems," *IEEE Transactions on Automatic Control*, volume 67, number 10, pages 5487–5492, October 2022.
- [21] **Jun Chen\***, Xiangyu Meng and Weinan Gao, "Guest Editorial: Recent Advances on Learning-Based Control Theory and Application," *International Journal of Modelling, Identification and Control*, volume 41, number 3, pages 1–2, July 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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- [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.
- [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.
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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.
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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.
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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.