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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 INTERESTS	Systems and Control, Artificial Intelligence, Intelligent Vehicles, Power & Energy Systems		
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	
	Research Assistant in Stochastic Hybrid Systems, Iowa State University, IA, USA	01/2011-10/2014	
SELECTED HONORS AND RECOGNITIONS	NSF CAREER Award, National Science Foundation	2022	
	IEEE Best Paper Award, IEEE Transactions on Automation Science and Engineering	2016	
	Best Paper Award, IEEE International Conference on Electro-Information Technology	2023	
	IEEE Senior Member	2020	
	New Investigator Research Excellence Award, Oakland University	2024	
	Most Active Grant Seeker Award, Oakland University	2023	
	INL Publication Achievement Award, Idaho National Laboratory	2016	
	Research Excellence Award, Iowa State University	2014	
SELECTED	Total: \sim \$3.9m; Personal share: \sim \$1.3m		

GRANTS

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- [39] Cong Wang, Zhenpo Wang, Lei Zhang*, **Jun Chen** and Dongpu Cao, "Post-Impact Stability Control for Road Vehicles: State-of-the-Art Methodologies and Perspectives," *IEEE Transactions on Intelligent Transportation Systems*, (Accepted for Publication January 2024).
- [38] Ali Irshayyid, Jun Chen* and Guojiang Xiong "A Review on Reinforcement Learning-based Highway Autonomous Vehicle Control," *Green Energy and Intelligent Transportation*, (Accepted for Publication January 2024).
- [37] Mingqiang Wang, Lei Zhang*, **Jun Chen**, Zhiqiang Zhang, Zhenpo Wang and Dongpu Cao, "A Hybrid Trajectory Prediction Framework for Automated Vehicles with Attention Mechanisms," *IEEE Transactions on Transportation Electrification* (Accepted for Publication December 2023).
- [36] **Jun Chen***, Aman Behal, Zhaojian Li and Chong Li, "Active Battery Cell Balancing by Real Time Model Predictive Control for Extending Electric Vehicle Driving Range," *IEEE Transactions on Automation Science and Engineering*, (Accepted for Publication June 2023).
- [35] Zhaodong Zhou, Christopher Rother and Jun Chen*, "Comparison of Two-Wheel and Four-Wheel Steering using Event-Triggered Predictive Motion Control and Scale Vehicles," ASME Letters in Dynamic Systems and Control, volume 4, number 3, pages 1–6, July 2024.
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- [28] <u>Christopher Rother, Zhaodong Zhou</u> and **Jun Chen***, "Development of a Four-Wheel Steering Scale Vehicle for Research and Education on Autonomous Vehicle Motion Control," *IEEE Robotics and Automation Letters*, volume 8, number 8, pages 5015–5022, August 2023.
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- [5] **Jun Chen** and Ratnesh Kumar, "Fault Detection of Discrete-Time Stochastic Systems Subject to Temporal Logic Correctness Requirements," *IEEE Transactions on Automation Science and Engineering*, volume 12, number 4, pages 1369–1379, October 2015. (**IEEE Best Paper Award**: link)
- [4] **Jun Chen** and Ratnesh Kumar, "Stochastic Failure Prognosability of Discrete Event Systems," *IEEE Transactions on Automatic Control*, volume 60, number 6, pages 1570–1581, June 2015.
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- [1] Lingfei Zhi, **Jun Chen**, Peter Molnar and Aman Behal, "Weighted Least-Squares Approach for Identification of a Reduced-Order Adaptive Neuronal Model," *IEEE Transactions on Neural Networks and Learning Systems*, volume 23, number 5, pages 834–840, May 2012.

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- [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.
- [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)
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