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INTERESTS	Systems and Control, Artificial Intelligence, Intelligent Vehicles, Power & Energy Systems	
EMPLOYMENT	Oakland University , Rochester, MI, USA - Associate Professor , Department of Electrical and Computer Engineering - Assistant Professor, Department of Electrical and Computer Engineering General Motors , Michigan, USA - Senior Control Systems Engineer, Vehicle and Propulsion Control, Milford - Summer Intern, Software V&V, Warren (GM R&D) Idaho National Laboratory , Idaho Falls, ID, USA - R&D Scientist, Power and Energy Systems Iowa State University , Ames, IA, USA - Research Assistant, Stochastic Hybrid Systems - Teaching Assistant, Electrical Engineering	08/2024–present 08/2020–08/2024 01/2017–08/2020 04/2014–07/2014 11/2014–12/2016 01/2011–10/2014 01/2011–12/2013
SELECTED HONORS AND RECOGNITIONS	NSF CAREER Award , National Science Foundation Best Paper Award , IEEE Transactions on Automation Science and Engineering Best Paper Award , IEEE International Conference on Electro-Information Technology IEEE Senior Member Associate Editor , American Control Conference Most Research Active Award , Oakland University New Investigator Research Excellence Award , Oakland University Associate Editor , Modeling, Estimation, and Control Conference R&D 100 Award , R&D World Associate Editor , IEEE Conference on Control Technology and Applications Associate Editor , IEEE International Conference on Robotics and Automation INL Publication Achievement Award , Idaho National Laboratory Research Excellence Award , Iowa State University	2022 2016 2023 2020 2024–present 2024 2024 2024–present 2023 2023–present 2020 2016 2014
SELECTED GRANTS	Total: ~\$4.5m; Personal share: ~\$1.7m [4] Jun Chen , \$126,374, “Sensor Reduction for Large Battery Packs,” 09/2024–08/2025, Michigan Translational Research and Commercialization (MTRAC) for Advanced Transportation Innovation Hub. [3] Jun Chen , \$25,000, “Optimal Scheduling of Edge Devices for Decentralized Data Preprocessing,” 06/2024–05/2025, NSF IUCRC eCAT Center. [2] Jun Chen , \$40,000, “Sensor Reduction for Battery Cell State-of-Charge Estimation,” 01/2024–12/2024, MEDC ADVANCE Proof-of-Concept Fund. [1] Jun Chen , \$555,000, “CAREER: Reconfigurable and Predictive Control with Reinforcement Learning Supervisor for Active Battery Cell Balancing,” 01/2023–12/2027, NSF-ECCS-EPCN.	
PUBLICATIONS	(h-index: 22; <u>underline</u> : students under my close supervision; *: corresponding author) Patents [4] Min Sun, Yiran Hu, David Edwards, Jun Chen , Insu Chang and Steven Moorman, “ Active Thermal Management System and Method for Flow Control ,” U.S. Patent No. US11312208 B2, April 26, 2022.	

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- [2] Yiran Hu, David Edwards, Michael Paratore Jr, Min Sun, **Jun Chen**, Eugene Gonze and Sergio Quelhas, “[Method and Apparatus for Control of Propulsion System Warmup Based on Engine Wall Temperature](#),” U.S. Patent No. 11078825 B2, August 3, 2021.
- [1] **Jun Chen**, David Edwards, Yiran Hu, Min Sun, Adam J. Heinzen and Michael A. Smith, “[Method and System for Determining Thermal State](#),” U.S. Patent No. 10995688 B2, May 4, 2021.

Book Chapters

- [3] Ali Irshayyid and **Jun Chen***, “Highway Platoon Merging Control using RL: A Review,” in *Control, Learning, and Optimization with Applications in Connected and Autonomous Vehicles*, (To appear in 2026).
- [2] Kaixiang Zhang, Kaian Chen, Zhaojian Li*, **Jun Chen** and Yang Zheng, “Data-Driven Predictive Leading Cruise Control in Mixed Traffic with Privacy Enhancement,” in *Control, Learning, and Optimization with Applications in Connected and Autonomous Vehicles*, (To appear in 2026).
- [1] Mariam Ibrahim, **Jun Chen** and Ratnesh Kumar, “[Quantification of Centralized/Distributed Secrecy in Stochastic Discrete Event Systems](#),” in *Recent Advances in Systems Safety and Security*, Editors: Emil Pricop and Grigore Stamatescu, Springer, May 2016, ISBN: 978-3-319-32523-1.

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- [41] Guojiang Xiong*, Jing Zhang, Xiaofan Fu, **Jun Chen** and Ali Wagdy Mohamed, “[Seasonal Short-term Photovoltaic Power Prediction Based on GSK-BiGRU-XGboost Considering Correlation of Meteorological Factors](#),” *Journal of Big Data*, volume 11, number 164, pages 1–19, November 2024.
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- [26] **Jun Chen***, “A Probabilistic Test for A-Diagnosability of Stochastic Discrete-Event Systems with Guaranteed Error Bound,” *IEEE Control Systems Letters*, volume 7, number 1, pages 2833–2838, June 2023.
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- [33] Luke Nculaj, Adam Kidwell, Connor Homayouni, Alex Fillmore, Darrin Hanna and **Jun Chen**, “[Optimal FPGA Implementation of Dense Extended Kalman Filter for Simultaneous Cell State Estimation](#),” *IEEE International Midwest Symposium on Circuits and Systems (MWSCAS)*, Springfield, MA, August 11–14, 2024.
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- [31] Zhaodong Zhou and **Jun Chen***, “[Modeling Driver Lane Change Behavior Using Inverse Reinforcement Learning](#),” *IEEE International Conference on Computing and Machine Intelligence*, Mount Pleasant, MI, April 13–14, 2024.

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- [28] Zhaodong Zhou, **Jun Chen***, Mingyuan Tao, Peng Zhang and Meng Xu, “[Experimental Validation of Event-Triggered Model Predictive Control for Autonomous Vehicle Path Tracking](#),” *IEEE International Conference on Electro Information Technology*, Romeoville, IL, May 18–20, 2023. (**Best Paper Award:** [link](#))
- [27] Yang Chen, **Jun Chen***, Chenang Liu, Guodong Liu, Maximiliano Ferrari and Aditya Sundararajan, “[Integrated Modeling and Optimal Operation of Multi-Energy System for Coastal Community](#),” *IEEE International Conference on Electro Information Technology*, Romeoville, IL, May 18–20, 2023.
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- [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.
- [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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