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EDUCATION	Ph.D. in Electrical Engineering (minor in CS), Iowa State University, Ames IA, 4.0/4.0 B. S. in Automation , Zhejiang University, Hangzhou China	12/2014 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 Department, Oakland University, Rochester MI, USA Senior Control Systems Engineer , General Motors, Milford MI, USA R&D 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, IA, USA Teaching Assistant in <i>Electrical Engineering</i> , Iowa State University, IA, USA Research Assistant in <i>System Identification</i> , University of Central Florida, FL, USA	08/2020–present 01/2017–08/2020 11/2014–12/2016 04/2014–07/2014 01/2011–10/2014 01/2011–12/2013 08/2009–12/2010
HONORS AND RECOGNITIONS	NSF CAREER Award , National Science Foundation Associate Editor , IEEE International Conference on Robotics and Automation IEEE Best Paper Award , IEEE Transactions on Automation Science and Engineering IEEE Senior Member 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 INL Publication Achievement Award , Idaho National Laboratory Research Excellence Award , Iowa State University Student Travel Award , American Control Conference Provost Graduate Fellowship , University of Central Florida Third Class Scholarship for Undergraduate Student , Zhejiang University Outstanding Student , Zhejiang University	2022 2020 2016 2020 2023–present 2022–present 2022–present 2022 2016 2014 2014 2009–2010 2008 2008
PUBLICATIONS	(Students under my close supervision are marked in <u>underline</u> ; corresponding author is marked by *) Patent [4] Min Sun, Yiran Hu, David Edwards, <u>Jun Chen</u> , Insu Chang and Steven Moorman, “ Active Thermal Management System and Method for Flow Control ,” U.S. Patent No. US11312208 B2, April 26, 2022. [3] <u>Jun Chen</u> , Ruixing Long and Yiran Hu, “ Method for Increasing Control Performance of Model Predictive Control Cost Functions ,” U.S. Patent No. US11192561 B2, December 7, 2021. [2] Yiran Hu, David Edwards, Michael Paratore Jr, Min Sun, <u>Jun Chen</u> , 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] <u>Jun Chen</u> , 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 Chapter	

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- [24] **Jun Chen**^{*}, Xiangyu Meng and Weinan Gao, “Preface: Recent Advances on Learning-Based Control - Theory and Application,” *International Journal of Modelling, Identification and Control*, volume 43, number 3, March 2023.
- [23] Ali Irshayyid and **Jun Chen**^{*}, “[Comparative Study of Cooperative Platoon Merging Control Based on Reinforcement Learning](#),” *Sensors*, volume 23, number 2-990, pages 1–23, January 2023.
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- [21] **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.
- [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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- [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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