

Abhishek Gupta

CONTACT INFORMATION	Associate Professor ECE Department, The Ohio State University, 2015 Neil Avenue, Room 464, Columbus, OH – 43210	Cell: +1-217-819-6382 Email: gupta.706@osu.edu http://gupta706.github.io/
RESEARCH INTERESTS	Theory: Reinforcement learning, multi-agent decision and game theory, optimization, adversarial learning theory Applications: Market design, security of cyberphysical systems	
EMPLOYMENT	Ensemble Control Inc. , Columbus, OH Founder and CEO , July 2021 – current The Ohio State University , Columbus, OH Associate Professor, Electrical and Computer Engineering , May 2023 – current Assistant Professor, Electrical and Computer Engineering , July 2015 – May 2023 University of Southern California , Los Angeles, CA Postdoctoral Researcher, Electrical Engineering , August 2014 – June 2015 <ul style="list-style-type: none">• Visiting Researcher: University of California, Berkeley, August 2014 – December 2014• Visiting Researcher: Stanford University, January 2015 – May 2015	
EDUCATION	University of Illinois at Urbana-Champaign , Urbana, USA Ph.D., Aerospace Engineering , May 2011 – August 2014 <ul style="list-style-type: none">• Thesis: <i>Dynamic Sequential Decision Problems with Asymmetric Information: Some Existence Results</i> M.S., Applied Mathematics , May 2011 – December 2012 M.S., Aerospace Engineering , August 2009 – May 2011 <ul style="list-style-type: none">• Thesis: <i>Control in the Presence of an Intelligent Jammer with Limited Actions</i> Indian Institute of Technology Bombay , Mumbai, India B.Tech., Aerospace Engineering , July 2005 – April 2009 <ul style="list-style-type: none">• Thesis: <i>One-to-one Aerial Combat using Differential Game Theory</i>	

AWARDS & HONORS	<ul style="list-style-type: none"> • Lumley Research Award, College of Engineering, OSU 2019 • Kenneth Lee Herrick Memorial Award for outstanding academic and research performance in the Aerospace Engineering department at UIUC 2014 • Mavis Future Faculty Fellowship, College of Engineering, UIUC 2012-13 • Research Internship in Science and Engineering, Indo-US S&T Forum Summer 2012 • Narotam Sekhsaria Excellence in Undergraduate Award for excellence in academic and extra-curricular activities, India 2009 • Award for Excellence, Aerospace Department, IIT Bombay, India 2008, 2009 • IIT Bombay Heritage Fund Scholarship, IIT Bombay, India 2006-08
TEACHING	<p>ECE 5759: Static and Dynamic Optimization (Autumn 2015-21)</p> <p>ECE 5555: Securing Autonomous Systems (Autumn 2021)</p> <p>ECE 3050: Signals and Systems (Spring 2017, 2021)</p> <p>ECE 8851: Reinforcement Learning (Spring 2020)</p> <p>ECE 3551: Feedback Control Systems (Spring 2016, Autumn 2019)</p> <p>ECE 6194.04: Game Theory and Mechanism Design (Autumn 2017)</p>
ONLINE PROFESSIONAL COURSES	<p>Introduction to Machine Learning</p> <p>Linear Algebra and Calculus for Machine Learning</p> <p>Securing Autonomous Systems</p>
FUNDED PROJECTS	<p>CISCO: Anomaly and Attack Detection in Complex Autonomous Systems (\$ 116,400, May 2022-Aug 2023)</p> <p>Ford Motor Company: Optimal charge scheduling for an aggregate of electric vehicles (\$ 220,000, May 2020-May 2022)</p> <p>Army Research Lab: Smart operation and fault diagnosis of next generation wide bandgap power electronics using machine learning (PI: Prof. Julia Zhang, co-PI: Prof. Anant Agarwal and Prof. Jin Wang) (\$ 100,000, Aug 2019-June 2021)</p> <p>Ford Motor Company: Cybersecurity and functional safety of smart cars (co-PIs: Prof. Emre Koksall and Prof. Giorgio Rizzoni) (\$ 284,000, May 2019-May 2021)</p> <p>Ford Motor Company: Uncovering the economic forces in multi-modal transportation (\$ 200,000, May 2018-Dec 2020)</p> <p>ARPA-E NEXTCAR: Fuel Economy Optimization with Dynamic Skip Fire in a Connected and Automated Vehicle (co-PI: Prof. Marcello Canova and Prof. Giorgio Rizzoni; Industry Partners: Delphi Automotive PLC, Tula Technology, and TRC Inc.)</p>

(\$ 5,000,000 total, co-PI budget: \$ 94,000, Aug 2017-Dec 2020)

NSF EPCN: Smarter Markets for a Smarter Grid: Pricing Randomness, Flexibility and Risk (PI: Prof. Rahul Jain, USC)
(\$ 225,000, Aug 2016-Aug 2020)

NSF CRII: Securing Smart Cyberphysical Systems against Man-in-the-Middle Attacks
(\$ 175,000, Aug 2016-Aug 2019)

JOURNAL

PUBLICATIONS

- [J1] **A. Gupta**, R. Jain, and P. Glynn, “Probabilistic contraction analysis of iterated random operators”, *IEEE Transactions on Automatic Control*, 2023.
- [J2] Z. Zhu, S. Gupta, **A. Gupta**, and M. Canova, “A Deep Reinforcement Learning Framework for Eco-driving in Connected and Automated Hybrid Electric Vehicles”, *IEEE Transactions on Vehicular Technology*, 2023.
- [J3] S. Shao, H. Sartipizadeh, and **A. Gupta**, “Scheduling EV Charging Having Demand With Different Reliability Constraints”, *IEEE Transactions on Intelligent Transportation Systems*, 2023.
- [J4] S. Shao, F. Harirchi, D. Dave, and **A. Gupta**, “Preemptive Scheduling of EV Charging for Providing Demand Response Services”, *Sustainable Energy, Grids and Networks*, pp. 100986, 2023.
- [J5] J. Tang, S. Shao, J. Song, and **A. Gupta**, “Nash Equilibrium Control Policy against Bus-off Attacks in CAN Networks”, *IEEE Transactions on Forensics & Security*, pp. 980-990, 2022.
- [J6] S. Gupta, S. D’Alessandro, **A. Gupta**, S. Stockar, and M. Canova, “A Computationally Efficient Algorithm for Perturbed Dynamic Programs (A-PDP)”, *IEEE Control Systems Letters*, pp. 847-852, 2022.
- [J7] Y. Deng, **A. Gupta**, and N. Shroff, “Fleet Sizing and Charger Allocation in Electric Vehicle Sharing Systems”, in *IFAC Journal of Systems and Control*, pp. 100210, 2022.
- [J8] J. Regatti and **A. Gupta**, “Finite Sample Analysis of Minmax Variant of Offline Reinforcement Learning for General MDPs”, in *IEEE Open Journal on Control Systems*, vol. 1, pp. 152-163, 2022.
- [J9] R. Singh, **A. Gupta**, and N. Shroff, “Learning in Constrained Markov Decision Processes”, in *IEEE Transactions on Control of Network Systems*, to appear, 2022.
- [J10] Y. Deng, S. Shao, A. Mittal, R. Twumasi-Boakye, J. Fishelson, **A. Gupta**, and N. Shroff, “Incentive Design and Profit Sharing in Multi-modal Transportation Network”, in *Transportation Research Part B: Methodological*, vol. 163, pp. 1-21, 2022.

- [J11] J. L. Heyman and **A. Gupta**, “Rank Reduction in Bimatrix Games”, in *International Game Theory Review*, pp. 2250017, 2022.
- [J12] **A. Gupta**, S. D. Rajakumar, and M. Canova, “An Algorithm to Warm Start Perturbed (WASP) Constrained Dynamic Programs”, in *IEEE Open Journal on Control Systems*, vol. 1, pp. 1-14, 2022.
- [J13] Z. Zhu, N. Pivaro, S. Gupta, **A. Gupta**, and M. Canova, “Safe Model-based Off-policy Reinforcement Learning for Eco-Driving in Connected and Automated Hybrid Electric Vehicles”, in *IEEE Transactions on Intelligent Vehicles*, vol. 7 (2), pp. 387-398, 2022.
- [J14] Y. Deng, H. Chen, S. Shao, J. Tang, J. Pi, and **A. Gupta**, “Multi-Objective Vehicle Rebalancing for Ridehailing System using a Reinforcement Learning Approach”, in *Journal of Management Science and Engineering*, vol. 7(2), pp. 346-364, 2022.
- [J15] S. D. Rajakumar, S. Gupta, **A. Gupta**, and M. Canova, “Real-time Eco-Driving Control in Electrified Connected and Autonomous Vehicles using Approximate Dynamic Programming”, in *ASME Journal of Dynamic Systems, Measurement and Controls*, vol. 144 (1), pp. 011111, 2022.
- [J16] **A. Gupta** and W. B. Haskell, “Convergence of recursive stochastic algorithms using Wasserstein divergence”, in *SIAM Journal on Mathematics of Data Science*, vol. 3 (4), pp. 1141–1167, 2021.
- [J17] J. Tang and **A. Gupta**, “A Sketching Approach for Prioritizing Communication Links in Static Teams”, in *IEEE Control Systems Letters*, vol. 6, pp. 1016–1021, 2021.
- [J18] S. Shao and **A. Gupta**, “Fair Pricing of Ridehailing Services with Asymmetric Demand and Travel Time”, in *IEEE Transactions on Control of Networked Systems*, vol. 9(2), pp. 670-681, 2021.
- [J19] H. Li, S. Shao, and **A. Gupta**, “Fitted Value Iteration in Continuous Markov Decision Processes with State Dependent Action Sets”, in *IEEE Control Systems Letters*, vol. 6, pp. 1310–1315, 2021.
- [J20] **A. Gupta**, “Existence of Team-Optimal Strategies in Teams with Countable Observation Spaces”, in *IEEE Transactions on Automatic Control*, pp. 4792 – 4798, 2021.
- [J21] **A. Gupta**, H. Chen, J. Pi, and G. Tendolkar, “Some limit properties of Markov chains induced by recursive stochastic algorithms”, *SIAM Journal on Math of Data Science*, vol. 2, no. 4, pp. 967–1003, 2020.
- [J22] **A. Gupta**, “Optimal solutions in static teams with common information: A topology of information approach.” *SIAM Journal on Control and Optimization*, vol. 58, no. 2, pp. 998–1021, 2020.

- [J23] B. Dakhil and **A. Gupta**, “Auctioning electricity under deep renewable integration using a penalty for shortfall”, in *Sustainable Energy, Grids and Networks*, vol. 20, 2019.
- [J24] **A. Gupta**, C. Langbort, and T. Başar, “Dynamic games with asymmetric information and resource constrained players with applications to security of cyberphysical systems”, in *IEEE Transactions on Control of Network Systems*, vol. 4, no. 1, pp. 71–81, 2017.
- [J25] **A. Gupta**, S. Yüksel, T. Başar, and C. Langbort, “On the existence of optimal policies for a class of static and sequential dynamic teams”, in *SIAM Journal on Control and Optimization*, Volume 53, No. 3, pp. 1681–1712, June 2015.
- [J26] **A. Gupta**, A. Nayyar, C. Langbort, and T. Başar, “Common information based Markov perfect equilibria for linear-Gaussian games with asymmetric information”, in *SIAM Journal on Control and Optimization*, Volume 52, Issue 5, pp. 3228–3260, November 2014.
- [J27] M. Barbie and **A. Gupta**, “The topology of information on the space of probability measures over Polish spaces”, in *Journal of Mathematical Economics*, Volume 52, pp. 98–111, May 2014.
- [J28] A. Nayyar, **A. Gupta**, C. Langbort, and T. Başar, “Common Information based Markov perfect equilibria for stochastic games with asymmetric information: Finite games”, in *IEEE Transactions of Automatic Control*, Volume 59, pp. 555–570, March 2014.
- [J29] S. Bhattacharya, **A. Gupta**, and T. Başar, “Jamming in mobile networks: A game-theoretic approach”, in *Journal of Numerical Algebra, Control and Optimization*, Volume 3, Number 1, pp. 1-30, 2013.
- [J30] A. Sarkar, **Abhishek**, and U. A. Yajnik, “PeV scale Left-Right symmetry and Baryon asymmetry of the universe”, in *Nuclear Physics B*, Volume 800, Issue 1-2, pp. 253-269, 2008.

CONFERENCE
PROCEEDINGS

- [C1] A. Vedula, **A. Gupta**, and S. B. Venkatakrishnan, “Cobalt: Optimizing Mining Rewards in Proof-of-Work Network Games”. *2023 IEEE International Conference on Blockchain and Cryptocurrency (ICBC)*, pp. 1–9, 2023.
- [C2] H. Chen, J. Tang, and **A. Gupta**, “Change Detection of Markov Kernels using Maximum Mean Discrepancy”. in *IEEE Conference on Decision and Control*, pp. 4814–4820, 2022.
- [C3] J. Regatti, H. Chen, and **A. Gupta**, “Byzantine Resilience With Reputation Scores ”. In *Proc. Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, pp. 1-8, 2022.

- [C4] Y. Deng, X. Zhou, A. Ghosh, **A. Gupta**, and N. Shroff, “Interference Constrained Beam Alignment for Time-Varying Channels via Kernelized Bandits”, in *Proc. of 20th International Symposium on Modeling and Optimization in Mobile, Ad hoc, and Wireless Networks (WiOpt)*, pp. 25-32, 2022.
- [C5] Y. Deng, X. Zhou, B. Kim, A. Tewari, **A. Gupta**, and N. Shroff, “Weighted Gaussian Process Bandits for Non-stationary Environments”, in *Proc. of 25th International Conference on Artificial Intelligence and Statistics*, pp. 6909-6932, 2022.
- [C6] H. You, H. Wang, J. R. Regatti, J. Hall, A. Schnabel, B. Hu, J. Zhang, **A. Gupta**, and J. Wang, “Intelligent Health Monitoring System Hardware Design for Paralleled Devices with Fast Dv/dt Output”. In *2021 IEEE International Electric Machines & Drives Conference (IEMDC)*, 2021.
- [C7] J. R. Regatti, H. You, H. Wang, J. Hall, A. Schnabel, B. Hu, J. Zhang, J. Wang, and **A. Gupta**, “A Discussion of Artificial Intelligence Applications in SiC MOSFET Device Operation”. In *2021 IEEE International Electric Machines & Drives Conference (IEMDC)*, 2021.
- [C8] J. Regatti, G. Tendolkar, Y. Zhou, **A. Gupta**, and Y. Liang, “Distributed SGD Generalizes Well Under Asynchrony”. In *Proc. 57th Annual Allerton Conference on Communication, Control, and Computing (Allerton)*, pp. 863-870, 2019.
- [C9] J. Regatti and **A. Gupta**, “Traffic-Aware Adaptive Routing for Minimizing Fuel Consumption”, in *Proc. of 2019 American Control Conference*, pp. 4818-4825, 2019.
- [C10] J. L. Heyman and **A. Gupta**, “A Polynomial Time Algorithm to Solve $2 \times n$ Bimatrix Games”, in *Proc. of 18th European Control Conference (ECC)*, pp. 1049-1054, 2019.
- [C11] H. Sharma, R. Jain, and **A. Gupta**, “An empirical relative value learning algorithm for non-parametric MDPs with continuous state space”, in *Proc. of 18th European Control Conference (ECC)*, pp. 1368-1373, 2019.
- [C12] B. Dakhil and **A. Gupta**, “Selling renewable generation with a penalty for shortfall”, in *57th IEEE Conference on Decision and Control (CDC)*, pp. 6495–6500, December 2018.
- [C13] J. Tang and **A. Gupta**, “Communication link elimination in static LQG teams”, in *56th Annual Allerton Conference on Communication, Control, and Computing*, pp. 290–296, IEEE, 2018.
- [C14] **A. Gupta**, B. Dakhil, and R. Jain, “Dynamic economic dispatch and price evolution under ramping constraints and uncertain demand”, in *56th Annual Allerton Conference on Communication, Control, and Computing*, pp. 48–55, IEEE, 2018.

- [C15] J. L. Heyman and **A. Gupta**, “Colonel Blotto game with coalition formation for sharing resources”, in *International Conference on Decision and Game Theory for Security*, pp. 166–185, Springer, 2018.
- [C16] A. Nayyar and **A. Gupta**, “Information structures and values in zero-sum stochastic games”, in *2017 American Control Conference (ACC)*, pp. 3658–3663, IEEE, 2017.
- [C17] **A. Gupta**, “Privacy-aware stochastic control with a “snoopy” adversary: A game-theoretic approach”, in *Proc. of 2016 Annual Conference on Information Science and Systems*, pp. 193–197, March 2016.
- [C18] **A. Gupta**, R. Jain, K. Poolla, and P. Varaiya, “Equilibria in two-stage electricity markets”, in *Proc. of 54th IEEE Conference in Decision and Control (CDC)*, pp. 5833–5838, December 2015.
- [C19] **A. Gupta**, R. Jain, and P. Glynn, “An empirical algorithm for relative value iteration for average-cost MDPs”, in *Proc. of 54th IEEE Conference in Decision and Control (CDC)*, pp. 5079–5084, December 2015.
- [C20] **A. Gupta**, R. Jain, and R. Rajagopal, “Scheduling, pricing, and efficiency of non-preemptive flexible loads under direct load control”, in *Proc. of 53rd Annual Allerton Conference on Communication, Control, and Computing*, pp. 1008–1015, October 2015.
- [C21] **A. Gupta**, S. Yüksel, and T. Başar, “On the existence of optimal strategies in dynamic stochastic teams”, in *Proc. of 53rd IEEE Conference in Decision and Control (CDC)*, pp. 1681–1686, December 2014.
- [C22] **A. Gupta** and T. Başar, “Dynamic incentive design in multi-stage linear-Gaussian games with asymmetric information: A common information based approach”, in *Proc. of 53rd IEEE Conference in Decision and Control (CDC)*, pp. 414–419, December 2014.
- [C23] **A. Gupta**, T. Başar, and G. Schwartz, “A three-stage Colonel Blotto game: When to provide more information to an adversary”, in *Decision and Game Theory for Security (GameSec)*, Lecture Notes in Computer Science edited by R. Poovendran and W. Saad, Volume 8840, pp. 216 – 233, November 2014.
- [C24] **A. Gupta**, G. Schwartz, C. Langbort, S. Sastry, and T. Başar, “A Three-Stage Colonel Blotto game with applications to cyberphysical security”, in *Proc. of 2014 American Control Conference (ACC)*, pp. 3832–3837, June 2014.
- [C25] **A. Gupta**, S. Yüksel, and T. Başar, “On the existence of optimal strategies in multi-agent stochastic teams”, in *Proc. of 2014 American Control Conference (ACC)*, pp. 1945–1950, June 2014.
- [C26] **A. Gupta**, A. Nayyar, C. Langbort, and T. Başar, “A dynamic transmitter-jammer game with asymmetric information”, in *Proc. of 51st IEEE Conference on Decision and Control (CDC)*, pp. 6477–6482, December 2012.

- [C27] **A. Gupta**, P. Grover, C. Langbort, and T. Başar, “On myopic strategies in dynamic adversarial team decision problems”, in *Proc. of 46th Annual Conference on Information Sciences and Systems (CISS)*, pp. 1–6, March 2012.
- [C28] **A. Gupta**, C. Langbort, and T. Başar, “One-stage control over an adversarial channel with finite codelength”, in *Proc. of 50th IEEE Conference on Decision and Control (CDC)*, pp. 4072–4077, December 2011.
- [C29] S. Bhattacharya, **A. Gupta**, and T. Başar, “Decentralized opportunistic navigation strategies for multi-agent systems in the presence of an adversary”, in *Proc. of IFAC World Congress*, vol. 18, pp. 11809–11814, August 2011.
- [C30] **A. Gupta**, S. Bhattacharya, and T. Başar, “Decentralized control of multi-agent system with adversarial switching topology”, in *Infotech@Aerospace Conference, AIAA*, March 2011.
- [C31] **A. Gupta**, C. Langbort, and T. Başar, “Optimal control in the presence of an intelligent jammer with limited actions”, in *Proc. of 49th IEEE Conference on Decision and Control (CDC)*, pp. 1096–1101, December 2010.

MANUSCRIPTS
SUBMITTED

- [S1] S. Shao, W. Haskell, and **A. Gupta**, “Robustness to Modeling Errors in Risk-Sensitive Markov Decision Problems with Markov Risk Measures”, submitted to *SIAM Journal on Control and Optimization*, available on arXiv:2209.12937, 2022.
- [S2] J. Tang, J. Song, and **A. Gupta**, “A Dynamic Watermarking Algorithm for Finite Markov Decision Problems”, submitted to *IEEE Open Journal on Systems and Control*, 2022.

IN PREPARATION

- [P1] J. Regatti, A. A. Deshmukh, F. Cheng, Y. H. Jung, **A. Gupta**, and U. Dogan, “Offline RL With Resource Constrained Online Deployment”, in preparation, 2021.
- [P2] S. Shao, J. Pi, and **A. Gupta**, “Weak Continuity of Dissimilarity Metrics between Measures over Polish Spaces”, 2021.

INVITED TALKS
& POSTERS

- [IT1] “Recursive Stochastic Algorithms: A Markov Chain Approach”, Information Theory and its Applications, San Diego, USA, Feb 2020.
- [IT2] “Recursive Stochastic Algorithms: A Markov Chain Approach”, Tata Institute of Fundamental Research, Mumbai, India, Dec 2019.
- [IT3] “Recursive Stochastic Algorithms: A Markov Chain Approach”, University of Texas at Austin, Nov 2019.

- [IT4] “Rank Reduction in Bimatrix Games”, University of Michigan, Ann Arbor, June 2019.
- [IT5] “Recursive Stochastic Algorithms: A Markov Chain Approach”, University of Michigan, Ann Arbor, June 2019.
- [IT6] “Recursive Stochastic Algorithms: A Markov Chain Approach”, Google Deepmind (London), May 2019.
- [IT7] “Auctioning Renewable Energy with a Penalty for Shortfall”, Isaac Newton Institute, Cambridge University, April 2019.
- [IT8] “Recursive Stochastic Algorithms: A Markov Chain Approach”, MIT LIDS, April 2019.
- [IT9] “Reinforcement Learning for Connected Autonomous Cars”, GE Global Research, Niskayuna, February 2019.
- [IT10] “Auctioning Renewable Energy with a Penalty for Shortfall”, INFORMS Pricing and Revenue Management Conference, Canada, June 2018.
- [IT11] “Dynamic Games with Asymmetric Information”, Indian Institute of Science, Bangalore, India, June 2017.
- [IT12] “Witsenhausen’s Counterexample and Learning in Teams of Agents”, INFORMS Optimization Society Conference, Princeton, USA, March 2016.
- [IT13] “Malicious Attacks on Networked Control Systems”, Networking Technology and Systems Early-Career Investigators (NeTS-ECI) Workshop, Arlington, USA, July 2015.
- [IT14] “Cyber-physical System Security Problems as Dynamic Games: A Novel Solution Approach”, University of California at Los Angeles, USA, November 2014.
- [IT15] “Axiomatic Foundations of Decision Theory”, University of California at Berkeley, USA, October 2014.
- [IT16] “Cyber-physical System Security Problems as Dynamic Games: A Novel Solution Approach”, Carnegie Mellon University, Pittsburgh, USA, October 2014.
- [IT17] “Dynamic Teams with Non-classical Information”, Carnegie Mellon University, Pittsburgh, USA, October 2014.
- [IT18] “The Topology of Information on the Space of Measures over Polish Spaces”, University of California at Berkeley, USA, September 2014.
- [IT19] “Dynamic Teams with Non-classical Information”, University of California at Berkeley, USA, June 2014.

- [IT20] “Multi-stage LQG Games and Incentive Design Problems with Asymmetric Information”, Poster Session, 15th ACM Conference on Economics and Computation, Palo Alto, USA, June 2014.
- [IT21] “Dynamic Sequential Decision Problems with Asymmetric Information: Some Existence Results”, University of Southern California, Los Angeles, USA, May 2014.
- [IT22] “Dynamic Games and Teams with Asymmetric Information: Some Existence Results”, California Institute of Technology, Pasadena, USA, May 2014.
- [IT23] “Common Information based Markov Perfect Equilibrium in Dynamic LQG Games with Asymmetric Information”, 3rd Midwest Workshop on Control and Game Theory, Columbus, USA, April 2014.
- [IT24] “Teams with Non-classical Information Structures: Some Technical Challenges”, University of California Berkeley, USA, May 2013.
- [IT25] “Optimal Control in the Presence of an Intelligent Jammer with Limited Actions”, 2011 National Control Engineering Students Workshop, University of Maryland at College Park, USA, April 2011.

PROFESSIONAL SERVICES

- General Chair for 2019 IMACCS Workshop at OSU
- Associate Editor for 2019 Indian Control Conference and 2019 American Control Conference
- Served as a reviewer for
 - IEEE Transactions on Automatic Control
 - SIAM Journal on Control and Optimization
 - Mathematics of Operations Research
 - IEEE Transactions on Control of Networked Systems
 - Automatica
 - Discrete Event Dynamic Systems
 - International Game Theory Review
 - Mathematics of Control, Signals, and Systems
 - IEEE Conference on Decision and Control (IEEE-CDC)
 - American Control Conference (ACC)
 - INFORMS Annual Meeting
 - IEEE International Conference on Computer Communications (INFOCOM)
- General Chair of 8th CSL Student Conference, 2013