Ferdinando FIORETTO

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Research Interests: Machine Learning | Differential Privacy | Algorithmic Fairness | Al for Science and Engineering

Professional Experience

Current Aug. 2023	University of Virginia, Computer Science, Charlottesville, VA ASSISTANT PROFESSOR
Jul. 2023 Jan. 2020	Syracuse University, Electrical Engineering & Computer Science, Syracuse, NY ASSISTANT PROFESSOR
Dec. 2019 Sep. 2018	Georgia Institute of Technology , <i>School of Industrial and System Engineering</i> , Atlanta, GA POST-DOCTORAL RESEARCHER
Dec. 2018 Sep. 2016	University of Michigan , <i>Industrial and Operations Engineering</i> , Ann Arbor, MI RESEARCH FELLOW

EDUCATION

Aug. 2016	University of Udine ¹ , Computer Science, Udine, IT Ph.D. In Computer Science (WITH MS IN 2012)
Nov. 2009	University of Parma, Computer Science & Mathematics, Parma, IT BS. IN COMPUTER SCIENCE

SELECTED HONORS AND AWARDS

2022 Caspar Bowden PET Award, Privacy Enhancing Technologies (PETs). 🗹 Link

> The Caspar Bowden PET award for Outstanding Research in Privacy Enhancing Technologies is presented annually to researchers whose work makes an outstanding contribution to the theory, design, implementation, or deployment of privacy enhancing technology. The 2022 award was selected among all qualifying papers (published in any venue in the years 2020–2021).

The award letter reads: "Your paper Decision Making with Differential Privacy under the Fairness Lens received the award especially for advancing the understanding of DP and fairness trade-offs in decision making, providing a theoretical framework and exploring a highly relevant practical problem."

2022 **NSF CAREER Award**, National Science Foundation. **Press**

> Project name: "End-to-end Constrained Optimization Learning".

The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mismission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research.

2022 Google Research Scholar Award, Google (Privacy). CLink

> Project name: "Equity of Differentially Private Decision Processes".

The Research Scholar Program provides unrestricted gifts to support research at institutions around the world, and is focused on funding world-class research conducted by early-career professors.

2022 Amazon Research Award, Amazon – AWS AI (Responsible AI). 🗹 Press

> Project name: "Toward Understanding the Unintended Disparate Impacts of Private ML Systems".

The Amazon Research Awards is a competitive global program which offers unrestricted funds and AWS

Promotional Credits to support research at academic institutions and non-profit organizations in areas
that align Amazon's mission to advance science.

^{1.} Dual degree with New Mexico State University

- 2022 Best Paper Award, IEEE Transaction of Power Systems. Link
 - > For paper: "Differentially Private Optimal Power Flow for Distribution Grids".

 This highly selective award was assigned to eight out of all IEEE-TPWRS papers published in 2019–2021.
- 2022 Early Career Spotlight, International Joint Conference on Artificial Intelligence (IJCAI).
 - > Accompanying paper: "Integrating Machine Learning and Optimization to Boost Decision Making".

 The IJCAI Early Career Spotlight talks are aimed at providing an accessible introduction to the research directions of some of the most active early career researchers in Al. The talks are by invitation, based on nominations from the IJCAI program committee.
- 2021 Early Career Researcher Award, Association for Constraint Programming. Link
 - > The Early Career Research Award is assigned by the Association for Constraint Programming to early career researchers for their contributions to constrained optimization.

 In particular, this *inaugural* award was given "for contribution to constraint programming and, in particular, fundamental advances in distributed constraint satisfaction, constraint-based differential privacy, fairness in artificial intelligence, and their applications in energy, mobility, and census data."
- 2021 Mario Gerla Young Investigator Award, ISSNAF. 🗹 Press
 - > Established by the Gerla family in 2019 in memory of Dr. Mario Gerla, professor of Computer Science at UCLA, the Italian Scientists and Scholars in North America Foundation confers the *Young Investigator Awards* every year to outstanding, early-career, Italian researchers working in North America, in recognition of their significant and innovative contributions to computer science. The award is conferred in coordination with the Italian Embassy in US.
- 2021 Best Paper Award, IEEE Transaction of Power Systems. CLink
 - > For paper: "Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach".

 This highly selective award was assigned to seven out of all IEEE-TPWRS papers published in 2018–2020.
- 2017 **Best Al Dissertation Award**, Al*IA. **Press**
 - > For Thesis "Exploiting the Structure of Distributed Constraint Optimization Problems with Applications in Smart Grids."

The "Marco Cadoli' 'Best AI dissertation is assigned by the Italian Association for Artificial Intelligence (AI*IA) to a Ph.D. doctor who have obtained the title in an Italian University based on the quality and impact of the thesis work.

OTHER AWARDS

- 2023 ICLR Notable Reviewer Award, International conference on Learning Representations (ICLR). CLICAL
- 2023 NMSU CS Star Award, New Mexico State University (NMSU). Link
- 2022 Lightning Talk (Spotlight), Conference on Neural Information Processing Systems (NeurIPS). Like
- 2022 **Top Reviewer Award**, Conference on Neural Information Processing Systems (NeurIPS). **Link**
- 2021 Outstanding Reviewer Award, Conference on Neural Information Processing Systems (NeurIPS). 🗹 Link
- 2020 **Differentially Private Temporal Map Challenge Award, \$5000**, NIST. **Press**
- 2020 Young Investigator Award Nomination, ISSNAF. Press
- 2019 Invited journal paper, International Joint Conference on Artificial Intelligence (IJCAI).
- 2017 **Most Visionary Workshop Paper Award**, International Conference of Autonomous Agents and Multiagent Systems (AAMAS).

 Link
- 2016 **Top Graduate Student Honor's Cord**, NMSU.
- 2014 Outstanding Research Assistant Award, Computer Science, NMSU. C Press
- 2014 **Outstanding Teaching Assistant Nomination**, NMSU.
- 2013 Best Student Paper Award, Computational Methods in System Biology (CMSB). 🗹 Link
- 2013 **Ph.D. Scholarship Award (~\$50,000)**, University of Udine.
- 2013 Outstanding Teaching Assistant Award, Computer Science, NMSU. Press
- 2013 Computer Science Scholarship (\$1500), NMSU.
- 2012 Honors Graduate Recognition for Outstanding Academic Success, NMSU.
- 2008 Erasmus Scholarship ($\sim $14,000$), University of Leeds.

PUBLICATIONS

Summary: > 74 Conference papers > 14 Journals articles > 2 Book chapters > 3 Editorial articles

> 29 Workshop papers > 20+ Preprints

Total citations: 2613 **H-index**: 26 Google Scholar Names of students I supervise(d) are prepended with symbol .

RIGOROUSLY PEER REVIEWED CONFERENCES

2025

76. **S**Joonhyuk Ko, Juba Ziani, **S**Saswat Das, Matt Williams, **Ferdinando Fioretto**. *Fairness Issues and Mitigations in (Differentially Private) Socio-demographic Data Processes*. *Proceedings of the* **AAAI Conference on Artificial Intelligence** (AAAI), 2025.

Acceptance Rate: 18.9%.

- 75. Jinhao Liang, Jacob Christopher, Sven Koenig, Ferdinando Fioretto. "Multi-Agent Path Finding in Continuous Spaces with Projected Diffusion Models". International Workshop on Multi-Agent Path Finding (WoMAPF25), at AAAI, 2025.
- Oral Presentation.
- 74. Low-rank finetuning for LLMs: A fairness perspective. "Saswat Das, Marco Romanelli, Cuong Tran, Zarreen Reza, Bhavya Kailkhura, Ferdinando Fioretto". AAAI CoLoRAI Workshop, 2025.
- 73. FairDP: Certified Fairness with Differential Privacy. "Khang Tran, Ferdinando Fioretto, Issa Khalil, My T. Thai, NhatHai Phan". In IEEE Secure and Trustworthy Machine Learning Conference (SaTML 2025), 2025.

 Acceptance Rate: 29.4%.

2024

- **72.** Acceptance Rate: 25.8%. Stephen Baek, **Ferdinando Fioretto**. "Constrained Synthesis with Projected Diffusion Models". Proceedings of the **Conference on Neural Information Processing Systems (NeurIPS)**, 2024.
- 71.
 ^aJacob K. Christopher, Stephen Baek, Ferdinando Fioretto. "Physics-Aware Generative Diffusion Models for Microstructure Material Design". Al 4 Material science, at NeurIPS, 2024.

 Acceptance Rate: 39%.
- **Spotlight presentation** (6%).
- 70. Jacob K. Christopher, Michael Cardei, Brian R Bartoldson, Bhavya Kailkhura, Ferdinando Fioretto. "Speculative Diffusion Decoding: Accelerating Language Generation through Diffusion". Efficient Natural Language and Speech Processing (ENLSP), at NeurlPS, 2024.

Acceptance Rate: TBA.

69. Ethan King, *James Kotary, Ferdinando Fioretto, Jan Drgona. "Metric Learning to Accelerate Convergence of Operator Splitting Methods for Differentiable Parametric Programming". 63rd IEEE Conference on Decision and Control (CDC), 2024.

Acceptance Rate: TBA.

68. *James Kotary, *Vincenzo Di Vito, *Jacob K. Christopher, Pascal Van Hentenryck, Ferdinando Fioretto. "Predict-Then-Optimize by Proxy: Learning Joint Models of Prediction and Optimization". Proceedings of the European Conference of Artificial Intelligence (ECAI), 2024.

Acceptance Rate: 23.3%.

67. Sree Harsha Nelaturu, Nishaanth Kanna Ravichandran, Cuong Tran, Sara Hooker, and Ferdinando Fioretto. "On The Fairness Impacts of Hardware Selection in Machine Learning". Proceedings of the International Conference on Machine Learning (ICML), 2024.

Acceptance Rate: 27.5%.

- 66. Saswat Das, Marco Romanelli, Ferdinando Fioretto. "Disparate Impact on Group Accuracy of Linearization for Private Inference". Proceedings of the International Conference on Machine Learning (ICML), 2024.

 Acceptance Rate: 27.5%.
- **65**. **≜**My H. Dinh, **≜**James Kotary, **Ferdinando Fioretto**. "End-to-End Learning for Fair Multiobjective Optimization Under Uncertainty". Proceedings of the **Conference of Uncertainty on Artificial Intelligence (UAI)**, 2024.

Acceptance Rate: 27.0%.

63. My H. Dinh, James Kotary, Ferdinando Fioretto. "Learning Fair Ranking Policies via Differentiable Optimization of Ordered Weighted Averages". Proceedings of the ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT), 2024.

Acceptance Rate: 24.3%.

- **Ferdinando Fioretto**, Keyu Zhu, Pascal Van Hentenryck, [♣]Saswat Das, Christine Task. "Finding ε and δ of Traditional Disclosure Control Systems". Proceedings of the **AAAI Conference on Artificial Intelligence (AAAI)**, 2024. Acceptance Rate: 23.75%.
- 61. ⁴My H. Dinh, ⁴James Kotary, Ferdinando Fioretto. "Differentiable Approximations of Fair OWA Optimization". Workshop on Differentiable Almost Everything, at ICML, 2024.

 Acceptance Rate: 27.0%.

Ferdinando Fioretto. "The Data Minimization Principle in Machine Learning". Workshop on Generative Al and Law, at

Acceptance Rate: 30.0%.

ICML, 2024.

2023

60. **Cuong Tran and Ferdinando Fioretto**. "Data Minimization at Inference Time". Proceedings of the **Conference on Neural Information Processing Systems (NeurIPS)**, 2023.

Acceptance Rate: 23.0%.

59. Vladimir Dvorkin and Ferdinando Fioretto. "Price-Aware Deep Learning for Electricity Markets". Tackling Climate Change with Machine Learning, at NeurIPS, 2023.

Acceptance Rate: 35.0%.

- 58. ■James Kotary, ■My H. Dinh, Ferdinando Fioretto. "Folded Optimization for End-to-End Model-Based Learning". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2023.

 Acceptance Rate: 15.0%.
- 57. James Kotary, Vincenzo Di Vito, Ferdinando Fioretto, Pascal Van Hentenryck. "SF-PATE: Scalable, Fair, and Private Aggregation of Teacher Ensembles". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2023.

Acceptance Rate: 15.0%.

- **56**. **♣** James Kotary, **♣** Vincenzo Di Vito, **Ferdinando Fioretto**. *"End-to-End Combinatorial Ensemble Learning"*. *Proceedings of the* **International Joint Conference on Artificial Intelligence (IJCAI)**, 2023. Acceptance Rate: 15.0%.
- 55. Cuong Tran, Ferdinando Fioretto. "On the Fairness Impacts of Private Ensembles Models". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2023.

 Acceptance Rate: 15.0%.
- 54. Terrence W.K. Mak, Ferdinando Fioretto, Pascal Van Hentenryck. "Load Encoding for Learning AC-OPF". Proceedings of the IEEE PES General Meeting (PES), 2023.

Acceptance Rate: N/A.

- **S**3. My H. Dinh, **Ferdinando Fioretto**, Mostafa Mohammadian, and Kyri Baker. "An Analysis of the Reliability of AC Optimal Power Flow Deep Learning Proxies". **IEEE PES Innovative Smart Grid Technologies**, 2023. Acceptance Rate: unknown.
- **52**. **S**James Kotary, Vincenzo Di Vito, Ferdinando Fioretto. "End-to-End Optimization and Learning for Multiagent Ensembles". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2023. Acceptance Rate: 40.0%.

2022

51. Cuong Tran, Ferdinando Fioretto, Jung-Eun Kim, Rakshit Naidu. "Pruning has a disparate impact on model accuracy". Proceedings of the Conference on Neural Information Processing Systems (NeurIPS), 2022.

- Acceptance Rate: 25.6%.
- $oldsymbol{\Psi}$ **Lightning Talk (Spotlight)** (Typically assigned to ~3% out of all paper submissions (10,411, in 2022)).
- Keyu Zhu, Ferdinando Fioretto, Pascal Van Hentenryck. "Post-processing of Differentially Private Data: A Fairness Perspective". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2022. Acceptance Rate: 15.0%.
- 49. Ferdinando Fioretto, *Cuong Tran, Keyu Zhu, Pascal Van Hentenryck. "Differential Privacy and Fairness in Decisions and Learning Tasks: A Survey". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2022. Acceptance Rate: 18.0% (survey track).
- Ferdinando Fioretto. "Integrating Machine Learning and Optimization to Boost Decision Making". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 2022. Acceptance Rate: Invited.
- ₹ Early Career Spotlight (Accompanying paper).
- 47. James Kotary, Ferdinando Fioretto, Pascal Van Hentenryck, Ziwei Zhu. "End-to-end Learning for Fair Ranking Systems". Proceedings of the ACM Web Conferences (WWW), 2022. Acceptance Rate: 17.0%.
- ▲James Kotary, Ferdinando Fioretto, Pascal Van Hentenryck. "Fast Approximations for Job Shop Scheduling: A Lagrangian Dual Deep Learning Method". Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2022. Acceptance Rate: 15.0%.
- Lesia Mitridati, Emma Romei, Gabriela Hug, Ferdinando Fioretto. "Differentially-Private Heat and Electricity Markets Coordination". Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), 2022.

Acceptance Rate: N/A.

44. Mostafa Mohammadian, Kyri Baker, My H. Dinh, Ferdinando Fioretto. "Learning Solutions for Intertemporal Power Systems Optimization with Recurrent Neural Networks". Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS), 2022. Acceptance Rate: N/A.

- 2021
- [♣]Cuong Tran, [♣]My H. Dinh, **Ferdinando Fioretto**. "Differentially Private Deep Learning under the Fairness Lens". Proceedings of the Conference on Neural Information Processing Systems (NeurIPS), 2021. Acceptance Rate: 26.0%.
- ▲James Kotary, Ferdinando Fioretto, Pascal Van Hentenryck. "Learning Hard Optimization Problems: A Data Generation 42. Perspective". Proceedings of the Conference on Neural Information Processing Systems (NeurIPS), 2021. Acceptance Rate: 26.0%.
- 41. Cuong Tran, Ferdinando Fioretto, Pascal Van Hentenryck, Zhiyan Yao. "Decision Making with Differential Privacy under the Fairness Lens". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 560–566, 2021.

Acceptance Rate: 13.9%.

- 2022 Caspar Bowden PET Award (Selected among all papers about Privacy Enhancing Technologies published in international conferences between 2020–2022.).
- 40. James Kotary, Ferdinando Fioretto, Pascal Van Hentenryck, Bryan Wilder. "End-to-End Constrained Optimization Learning: A Survey". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 4475–4482, 2021. Acceptance Rate: 30.1%.
- Keyu Zhu, Pascal Van Hentenryck, Ferdinando Fioretto. "Bias and Variance of Post-processing in Differential Privacy". Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 11177–11184, 2021. Acceptance Rate: 21.0%.
- 38. Cuong Tran, Ferdinando Fioretto, Pascal Van Hentenryck. "Differentially Private and Fair Deep Learning: A Lagrangian Dual Approach". Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 9932–9939, 2021. Acceptance Rate: 21.0%.

37. Anudit Nagar, Cuong Tran, Ferdinando Fioretto. "A Privacy-Preserving and Accountable Multi-agent Learning Framework". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 1605–1606, 2021.

Acceptance Rate: 40.0%.

- 36. Ferdinando Fioretto. "Constrained-based Differential Privacy". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), 1868–8969, 2021.

 Acceptance Rate: Invited.
- 35. Vladimir Dvorkin, **Ferdinando Fioretto**, Pascal Van Hentenryck, Jalal Kazempour, Pierre Pinson. "Differentially Private Optimal Power Flow for Distribution Grids". **IEEE PowerTech**, 2021. Acceptance Rate: N/A.

2020

34. Ferdinando Fioretto, Pascal Van Hentenryck, Terrence W.K. Mak, ⁴Cuong Tran, Federico Baldo, Michele Lombardi. "A Lagrangian Dual Framework for Deep Neural Networks with Constraints". Proceedings of the European Conference on Machine Learning (ECML), 18–135, 2020.

Acceptance Rate: 19.0%.

- 33. Ferdinando Fioretto, Lesia Mitridati, Pascal Van Hentenryck. "Differential Privacy Stackebelg Games". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 3480–3486, 2020.

 Acceptance Rate: 12.6%.
- 32. Ferdinando Fioretto, Pascal Van Hentenryck. "OptStream: Releasing Time Series Privately". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), 5135–5139, 2020.

 Acceptance Rate: invited.
- ▼ Invited to the IJCAI journal track.
- 31. Terrence W.K. Mak, Ferdinando Fioretto, Pascal Van Hentenryck. "Privacy-Preserving Obfuscation for Distributed Power Systems". Proceedings of the Power Systems Computation Conference (PSCC), 2020.

 Acceptance Rate: 20.5%.
- **30**. **Ferdinando Fioretto**, Terrence W.K. Mak, Pascal Van Hentenryck. "*Predicting AC Optimal Power Flows : Combining Deep Learning and Lagrangian Dual Methods*". *Proceedings of the* **AAAI Conference on Artificial Intelligence (AAAI)**, pages 630–637, 2020.

Acceptance Rate: 20.6%.

29. Atena Tabakhi, William Yeoh, Ferdinando Fioretto. "The Smart Appliance Scheduling Problem: A Bayesian Optimization Approach". Proceedings of the International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), 100–115, 2020.

Acceptance Rate: 38.0%.

2019

- 28. Ferdinando Fioretto, Pascal Van Hentenryck. "Privacy-Preserving Federated Data Sharing". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 638–646, 2019.

 Acceptance Rate: 24.0%.
- 27. Ferdinando Fioretto, Terrence W.K. Mak, Pascal Van Hentenryck. "Privacy-Preserving Obfuscation of Critical Infrastructure Networks". Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI), pages 1086–1092, 2019.

Acceptance Rate: 17.9%.

26. **Ferdinando Fioretto**, Pascal Van Hentenryck. "Differential Privacy of Hierarchical Census Data: An Optimization Approach". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), pages 639–655, 2019.

Acceptance Rate: 37.0%.

▼ Invited to Constraint journal (selected papers – declined).

2018

25. Ferdinando Fioretto, Hong Xu, Sven Koenig, TK Satish Kumar. "Solving Multiagent Constraint Optimization Problems on the Constraint Composite Graph". Proceedings of the International Conference on Principles and Practice of Multi-Agent Systems (PRIMA), pages 106–122, 2018.

Acceptance Rate: 26.2%.

24. Ferdinando Fioretto, Chansoo Lee, Pascal Van Hentenryck. "Constrained-based Differential Privacy for Private Mobility". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1405–1413, 2018.

Acceptance Rate: 25.2%.

- 23. Khoi Hoang, Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Roie Zivan. "A Large Neighboring Search Schema for Multi-Agent Optimization". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), pages 688–706, 2018.

 Acceptance Rate: 33.0%.
- 22. Ferdinando Fioretto, Pascal Van Hentenryck. "Constrained-based Differential Privacy: Releasing Optimal Power Flow Benchmarks Privately". Proceedings of the International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR), pages 215–231, 2018.

 Acceptance Rate: 48.0%.
- 21. Ferdinando Fioretto, Hong Xu, Sven Koenig, TK Satish Kumar. "Constraint Composite Graph-Based Lifted Message Passing for Distributed Constraint Optimization Problems". International Symposium on Artificial Intelligence and Mathematics (ISAIM), 2018.

Acceptance Rate: N/A.

2017

- 20. Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Ye Ma, Satishkumar J. Ranade. "A Distributed Constraint Optimization (DCOP) Approach to the Economic Dispatch with Demand Response". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 999–1007, 2017.

 Acceptance Rate: 24.9%.
- 19. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "A Multiagent System Approach to Scheduling Devices in Smart Homes". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 981–989, 2017.

Acceptance Rate: 24.9%.

- 18. Khoi Hoang, Ping Hou, Ferdinando Fioretto, Makoto Yokoo, William Yeoh, Roie Zivan. "Infinite-Horizon Proactive Dynamic DCOPs". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 212–220, 2017.

 Acceptance Rate: 24.9%.
- 17. Atena M. Tabakhi, Tiep Le, Ferdinando Fioretto, William Yeoh. "Preference Elicitation for DCOPs". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), pages 278–296, 2017. Acceptance Rate: 43.0%.

<2016

16. Khoi Hoang, Ferdinando Fioretto, Ping Hou, Makoto Yokoo, William Yeoh, Roie Zivan. "Proactive Dynamic Distributed Constraint Optimization Problems". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 597–605, 2016.

Acceptance Rate: 24.9%.

15. Tiep Le, Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Tran Cao Son. "ER-DCOPs: A Framework for Distributed Constraint Optimization Problems With Uncertainty". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 606–614, 2016.

Acceptance Rate: 24.9%.

14. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "Multi-Variable Agent Decompositions for DCOPs". Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), pages 2480–2486, 2016.

Acceptance Rate: 25.7%.

- 13. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "A Dynamic Programming-Based MCMC Framework for Solving DCOPs with GPUs". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), pages 813–831, 2016.

 Acceptance Rate: 35.0%.
- 12. Ferdinando Fioretto, Tiep Le, Enrico Pontelli, William Yeoh, Tran Cao Son. "Exploiting GPUs in Solving (Distributed) Constraint Optimization Problems with Dynamic Programming". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), pages 121–139, 2015.

 Acceptance Rate: 48.7%.
- 11. Ferdinando Fioretto, Federico Campeotto, Agostino Dovier, Enrico Pontelli, William Yeoh. "Large Neighborhood Search with Quality Guarantees for Distributed Constraint Optimization Problems". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1835–1836, 2015.
 Acceptance Rate: 46.0%.
- 10. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "Multi-Variable Agents Decomposition for DCOPs to Exploit Multi-Level Parallelism". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1823–1824, 2015.

 Acceptance Rate: 46.0%.
- 9. Ferdinando Fioretto. "Exploiting the Structure of Distributed Constraint Optimization Problems". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 2007–2008, 2015. Acceptance Rate: N/A.
- 8. Ferdinando Fioretto. "Exploiting the Structure of Distributed Constraint Optimization Problems". Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), pages 4233–4234, 2015.

 Acceptance Rate: N/A.
- 7. $(\alpha-\beta)$ Federico Campeotto, Agostino Dovier, **Ferdinando Fioretto**, Enrico Pontelli. "A GPU Implementation of Large Neighborhood Search for Solving Constraint Optimization Problems". Proceedings of the **European Conference of Artificial Intelligence (ECAI)**, pages 189–194, 2014. Acceptance Rate: 28.0%.
- 6. Ferdinando Fioretto, Tiep Le, William Yeoh, Enrico Pontelli, Tran Cao Son. "Improving DPOP with Branch Consistency for Solving Distributed Constraint Optimization Problems". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), pages 307–323, 2014.

 Acceptance Rate: 49.8%.
- 5. $(\alpha$ - $\beta)$ Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, **Ferdinando Fioretto**, Enrico Pontelli. "Exploring the Use of GPUs in Constraint Solving". Proceedings of the **Practical Aspects of Declarative Languages (PADL)**, pages 152–167, 2014. Acceptance Rate: 55.0%.
- 4. Ferdinando Fioretto, Federico Campeotto, Luca Da Rin Fioretto, William Yeoh, Enrico Pontelli. "GD-Gibbs: A GPU-based Sampling Algorithm for Solving Distributed Constraint Optimization Problems". Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), pages 1339–1340, 2014.

 Acceptance Rate: 46.0%.
- 3. Ferdinando Fioretto, Enrico Pontelli. "Constraint Programming in Community-based Gene Regulatory Network Inference". Proceedings of the Computational Methods in System Biology (CMSB), pages 135–149, 2013.

 Acceptance Rate: 55.0%.
- **P** Best Student Paper Award .
- 2. (α-β) Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, **Ferdinando Fioretto**, Enrico Pontelli. "A Filtering Technique for Fragment Assembly-based Proteins Loop Modeling with Constraints". Proceedings of the International Conference on Principles and Practice of Constraint Programming (CP), pages 850–866, 2012. Acceptance Rate: 36.0%.
- 1. Michael R. Best, Ferdinando Fioretto, Alessandro Dal Palù, Enrico Pontelli, Tran Son, TuShun R. Powers, Elba E. Serrano. "The role of secondary and tertiary structure prediction in determining the function of novel genes found in Xenopus Leavis". Neuroscience, 2011, (518.20/ZZ45).

 Acceptance Rate: N/A.

- 14. Jayanta Mandi, [♣]James Kotary, Senne Berden, Maxime Mulamba, Victor Bucarey, Tias Guns, Ferdinando Fioretto. "Decision-Focused Learning: Foundations, State of the Art, Benchmark and Future Opportunities". Journal of Artificial Intelligence Research (JAIR), (81), pages 1623–1701, 2024.
- 13. Mostafa Mohammadian, Kyri Baker, **Ferdinando Fioretto**. "*Gradient-Enhanced Physics-Informed Neural Networks for Power Systems Operational Support*". Electric Power Systems Research (223), pages 109551, 2023.
- 12. Khoi D. Hoang, Ferdinando Fioretto, Ping Hou, William Yeoh, Makoto Yokoo, Roie Zivan. "*Proactive Dynamic Distributed Constraint Optimization Problems*". Journal of Artificial Intelligence Research (JAIR), (73), pages 179-225, 2022.
- 11. **Ferdinando Fioretto**, Pascal Van Hentenryck, Keyu Zhu. "Differential Privacy of Hierarchical Census Data: An Optimization Approach". **Artificial Intelligence Journal (AIJ)**, (296), pages 103475, 2021.
- Vladimir Dvorkin, **Ferdinando Fioretto**, Pascal Van Hentenryck, Pierre Pinson, Jalal Kazempour. "Differentially Private Optimal Power Flow for Distribution Grids". **IEEE Transactions on Power Systems**, 36(3), pages 2186–2196, 2021.
- **P** Best IEEE TPS paper award (given to 8 out of all TPS papers published in 2019–2021).
- 9. **Ferdinando Fioretto**, Terrence W.K. Mak, Pascal Van Hentenryck. "Differential Privacy for Power Grid Obfuscation". **IEEE** Transactions on Smart Grids, 11(2), pages 1356–1366, 2020.
- 8 Terrence W.K. Mak, Ferdinando Fioretto, Lyndon Shi, Pascal Van Hentenryck. "Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach". IEEE Transactions on Power Systems, 35(2), pages 1627–1637, 2020.
- **P** Best IEEE TPS paper award (given to 7 out of all TPS papers published in 2018–2020).
- 7 Ferdinando Fioretto, Pascal Van Hentenryck. "OptStream: Releasing Time Series Privately". Journal of Artificial Intelligence Research (JAIR), (65) pages 423–456, 2019.
- Invited to IJCAI 2020 journal track.
- **Ferdinando Fioretto**, Agostino Dovier, Enrico Pontelli. "Distributed Multi-Agent Optimization for Smart Grids and Home Automation". Intelligenza Artificiale (IA), 12 (2), pages: 67–87, 2019.
- ➡ Best 2018 Thesis in Artificial Intelligence (AI*IA) (Accompanying paper).
- 5. **Ferdinando Fioretto**, Enrico Pontelli, William Yeoh. "Distributed Constraint Optimization Problems and Applications: A Survey". **Journal of Artificial Intelligence Research (JAIR)**, 61, pages 623–698, 2018.
- **4**. **Ferdinando Fioretto**, William Yeoh. *"Al Buzzwords Explained : Distributed Constraint Optimization Problems"*. **Al Matters**, 3 (4), pages 8–13, 2018.
- 3. **Ferdinando Fioretto**, Enrico Pontelli, William Yeoh, Rina Dechter. "Accelerating Exact and Approximate Inference for (Distributed) Discrete Optimization with GPUs". **Constraints**, 23 (1), pages 1–43, 2018.
- 2. Ferdinando Fioretto, Agostino Dovier, Enrico Pontelli. "Constrained Community-based Gene Regulatory Network Inference". ACM Transactions on Modeling and Computer Simulation (TOMACS), 25 (2), pages 11:1–11:26, 2015.
- 1. $(\alpha-\beta)^2$ Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, **Ferdinando Fioretto**, Enrico Pontelli. "A Constraint Solver for Flexible Protein Models". **Journal of Artificial Intelligence Research (JAIR)**, 48, pages 953–1000, 2013.

BOOK CHAPTERS AND EDITORIAL ARTICLES

- 5. Ferdinando Fioretto, et al.. "Reports of the Workshops Held at the 2022 AAAI Conference on Artificial Intelligence". AI Magazine, 2022.
- 4. Ferdinando Fioretto, et al.. "Reports of the Workshops Held at the 2021 AAAI Conference on Artificial Intelligence". Al Magazine, 2021.
- 3. **Ferdinando Fioretto**, et al.. "Reports of the Workshops Held at the 2020 International Association for the Advancement of Artificial Intelligence Conference on Web and Social Media". **AI Magazine**, 41(4) 2020.
- 2 ♣William Kluegel, ♣Muhammad A. Iqbal, Ferdinando Fioretto, William Yeoh, Enrico Pontelli. *"A Realistic Dataset for the Smart Home Device Scheduling Problem for DCOPs"*. *Lecture Notes in Computer Science (LCNS)*, LNCS, volume 10643 pages 125–142, Springer, 2017.
- Yisionary Paper Award (AAMAS workshop series).
- 1. Moinul M.P. Chowdhury, Russell Y. Folk, **Ferdinando Fioretto**, Christopher Kiekintveld, William Yeoh. "Investigation of Learning Strategies for the SPOT Broker in Power TAC". AgentMediated Electronic Commerce: Designing Trading Strategies and Mechanisms for Electronic Markets, volume 271 of Lecture Notes in Business Information Processing, pages 96–111, Springer, 2017.

PEER REVIEWED WORKSHOPS

29. Jinhao Liang, Jacob Christopher, Sven Koenig, Ferdinando Fioretto. "Multi-Agent Path Finding in Continuous Spaces with Projected Diffusion Models". Combining Al and OR/MS for Better Trustworthy Decision Making, at AAAI, 2025.

^{2.} Author list is order alphabetically.

Oral Presentation.

- 28. Vincenzo Di Vito, Mostafa Mohammadian, Kyri Baker, Ferdinando Fioretto. "OPF-Net: Real-Time Stability Constrained AC Optimal Power Flow". AAAI 2025 Bridge on Explainable AI, Energy and Critical Infrastructure Systems.
- 27. AJacob K. Christopher, Stephen Baek, Ferdinando Fioretto. "Physics-Aware Diffusion Models for Micro-structure Material Design". ELLIS ML for Molecules and Materials in the Era of LLMs Workshop, 2024.
- 25. *Jacob K. Christopher, Stephen Baek, Ferdinando Fioretto. "Constrained Synthesis with Projected Diffusion Models". Machine Learning and the Physical Sciences Workshop at NeurIPS, 2024.
- 24. Prakhar Ganesh, ♣Cuong Tran, Reza Shokri, Ferdinando Fioretto. "The Data Minimization Principle in Machine Learning". Workshop on Regulatory ML at NeurIPS, 2024.
- 23. My H. Dinh, James Kotary, Ferdinando Fioretto. "Differentiable Approximations of Fair OWA Optimization". Workshop on Differentiable Almost Everything at ICML, 2024.
- 22. Ferdinando Fioretto. "The Data Minimization Principle in Machine Learning". Workshop on Generative AI and Law at ICML, 2024.
- 21. Vladimir Dvorkin, Ferdinando Fioretto, Pascal Van Hentenryck, Pierre Pinson, Jalal Kazempour. "Privacy-Preserving Convex Optimization: When Differential Privacy Meets Stochastic Programming". Workshop on Climate Change AI at NeurIPS, 2023.
- 20. Cuong Tran, My H. Dinh, Ferdinando Fioretto. "A Fairness Analysis on Private Aggregation of Teacher Ensembles". AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI)—at AAAI, 2022.
- Spotlight Paper.
- 19. Cuong Tran, Ferdinando Fioretto. "Decision Making with Differential Privacy under the Fairness Lens". Theory and Practice of Differential Privacy (TPDP) at ICML, 2021.
- 18. Anudit Nagar, Cuong Tran, Ferdinando Fioretto. "A Privacy-Preserving and Accountable Multi-agent Learning Framework". International Workshop on Learning and Optimization in Multi-Agent Systems (OPTLearnMAS)—at AAMAS, 2021.
- 17. Cuong Tran, Ferdinando Fioretto, Pascal Van Hentenryck. "Differentially Private and Fair Deep Learning: A Lagrangian Dual Approach". AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI)—at AAAI, 2021.
- **16**. **Ferdinando Fioretto**, **≜**Cuong Tran, Pascal Van Hentenryck. "Lagrangian Duality for Constrained Deep Learning". **IN-FORMS**, 2020.
- **15**. Lesia Mitridati, **Ferdinando Fioretto**, Pascal Van Hentenryck. "Differential Privacy For Stackelberg Games: An Application To Gas And Electricity Markets". **INFORMS**, 2020.
- 14. Khoi Hoang, Ferdinando Fioretto, William Yeoh, Enrico Pontelli, Roie Zivan. "A Large Neighboring Search Schema for Multi-Agent Optimization". International Workshop on Optimization in Multi-Agent Systems (OPTMAS)—at AAMAS, 2019.
- 13. Ferdinando Fioretto, Hong Xu, Sven Koenig, TK Satish Kumar. "Solving Multiagent Constraint Optimization Problems on the Constraint Composite Graph". International Workshop on Optimisation in Multi-Agent Systems (OptMAS)—at AAMAS, 2018.
- 12. William Kluegel, Muhammad Aamir Iqbal, Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "A Realistic Dataset for the Smart Home Device Scheduling Problem for DCOPs". International Workshop on Optimisation in Multi-Agent Systems (OPTMAS)—at AAMAS, 2017.
- 11. Ferdinando Fioretto, William Yeoh, Enrico Pontelli. "A Multiagent System Approach to Scheduling Devices in Smart Homes". Workshop on AI for Smart Grids and Smart Buildings (AISGSB)–at AAAI, 2017.
- 10. Atena M. Tabakhi, Ferdinando Fioretto, William Yeoh. "A Preliminary Study on Preference Elicitation in DCOPs for Scheduling Devices in Smart Buildings". 10th Workshop on Advances in Preference Handling (MPREF)—at IJCAI, 2016.
- 9. Porag Chowdhury, Russell Y. Folk, **Ferdinando Fioretto**, Christopher Kiekintveld, William Yeoh. "Investigation of Learning Strategies for the SPOT Broker in Power TAC". **International Workshop on Agent Mediated Electronic Commerce and Trading Agents Design and Analysis (AMEC/TADA)**—at AAMAS, 2016.
- 8. Khoi Hoang, Ferdinando Fioretto, Ping Hou, Makoto Yokoo, William Yeoh, Roie Zivan. "Proactive Dynamic DCOPs". Workshop on Al for Smart Grids and Smart Buildings (AISGSB)—at AAAI, 2016.
- 7. **Ferdinando Fioretto**, Federico Campeotto, Agostino Dovier, Enrico Pontelli, William Yeoh. "Large Neighborhood Search with Quality Guarantees for Distributed Constraint Optimization Problems". In International Workshop on Optimization in Multi-Agent Systems (OptMAS) at AAMAS, 2015.

- 6. Ferdinando Fioretto, Tiep Le, William Yeoh, Enrico Pontelli, Tran Cao Son. "Improving DPOP with Branch Consistency for Solving Distributed Constraint Optimization Problems". In International Workshop on Optimization in Multi-Agent Systems (OptMAS) at AAMAS, 2015.
- 5. $(\alpha-\beta)$ Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, **Ferdinando Fioretto**, Enrico Pontelli. "Experimenting with FIASCO for protein structure prediction". **Workshop on Constraint Based Methods for Bioinformatics (WCB)–at CP**, 2014.
- 4. $(\alpha-\beta)$ Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, **Ferdinando Fioretto**, Enrico Pontelli. "*Towards a complete constraint solver on GPU*". In **Workshop on Parallel Methods for Search & Optimization (ParSearchOpt)**—at ECAI, 2014.
- 3. Ferdinando Fioretto, Enrico Pontelli. "Community-based Gene Regulatory Network Inference via Constraint Programming". Workshop on Constraint Based Methods for Bioinformatics (WCB)—at CP, 2013.
- 2. $(\alpha-\beta)$ Federico Campeotto, Alessandro Dal Palù, Agostino Dovier, **Ferdinando Fioretto**, Enrico Pontelli. "Protein Loop Modelling via Constraints and Fragment Assembly". **Workshop on Constraint Based Methods for Bioinformatics** (WCB)-at CP, 2012.
- 1. $(\alpha-\beta)$ Michael R. Best, Kabi Bhattarai, Federico Campeotto, Alessandro Dal Palù, Hung Dang, Agostino Dovier, Ferdinando Fioretto, Federico Fogolari, Tiep Le, Enrico Pontelli. "Introducing FIASCO: Fragment-based Interactive Assembly for protein Structure prediction with Constraints". Workshop on Constraint Based Methods for Bioinformatics (WCB)-at CP, 2011.

PRE-PRINTS AND IN-PRESS

- 11. Vincenzo Di Vito, Mostafa Mohammadian, Kyri Baker, Ferdinando Fioretto. "OPF-Net: Real-Time Stability Constrained AC Optimal Power Flow". Submitted.
- **10**. My H. Dinh, James Kotary, Lauryn P. Gouldin, William Yeoh, **Ferdinando Fioretto**. "End-to-End Optimization and Learning of Fair Court Schedules". **Submitted**.
- 9. Vincenzo Di Vito, Mostafa Mohammadian, Kyri Baker, Ferdinando Fioretto. "Learning To Solve Differential Equation Constrained Optimization Problems". Submitted.
- 8. Joonhyuk Ko, Juba Ziani, Saswat Das, Matt Williams, Ferdinando Fioretto. "Fairness Issues and Mitigations in (Differentially Private) Socio-demographic Data Processes". CoRR abs/2408.08471.
- 7. Accelerating Language Generation through Diffusion". **CoRR abs**/2408.05636.
- 6. **Ferdinando Fioretto**, Diptangshu Sen, Juba Ziani. "Differentially Private Data Release on Graphs: Inefficiencies and Unfairness". (under review) **CoRR abs**/2408.05246.
- 5. Saswat Das, Marco Romanelli, Cuong Tran, Zarreen Reza, Bhavya Kailkhura, Ferdinando Fioretto. Low-rank fine-tuning for LLMs: A fairness perspective. (under review) CoRR abs/2405.18572, 2024.
- 4. Prakhar Ganesh, ♣Cuong Tran, Reza Shokri, Ferdinando Fioretto. "The Data Minimization Principle in Machine Learning". (under review) CoRR abs/2405.19471, 2024.
- 3. AJames Kotary, Ferdinando Fioretto. "Learning Constrained Optimization with Deep Augmented Lagrangian Methods". CoRR abs/2403.03454, 2024.
- 2. ♣James Kotary, ♣Jacob K. Christopher, ♣My H Dinh, and Ferdinando Fioretto. "Analyzing and Enhancing the Backward-Pass Convergence of Unrolled Optimization". (under review in INFORMS journal of computing) CoRR abs/2301.12047, 2024
- 1. Khang Tran, **Ferdinando Fioretto**, Issa Khalil, My T. Thai, NhatHai Phan. "FairDP: Certified Fairness with Differential Privacy". **CoRR abs**/2305.16474, 2023.

ARCHIVED AND EXTENDED VERSIONS OF PUBLISHED PAPERS

- **12**. **A**My H. Dinh, **Ferdinando Fioretto**. "Context-Aware Differential Privacy for Language Modeling". **CoRR abs**/2301.12288, 2023.
- 11. Sawinder Kaur, Ferdinando Fioretto, Asif Salekin. "Deadwooding: Robust Global Pruning for Deep Neural Networks". CoRR abs/2202.05226, 2022.
- **10**. **A**My H. Dinh, **Ferdinando Fioretto**, Mostafa Mohammadian, Kyri Baker. "*Towards Understanding the Unreasonable Effectiveness of Learning AC-OPF Solutions*". **CoRR abs**/2111.11168, 2021.
- 9. Cuong Tran, My H. Dinh, Ferdinando Fioretto. "Differentially Private Deep Learning under the Fairness Lens". CoRR abs/2106.02674, 2021 (extended NeurlPS-21 version).
- 8. Anudit Nagar, Cuong Tran, Ferdinando Fioretto. "A Privacy-Preserving and Trustable Multi-agent Learning Framework". CoRR abs/2106.01242, 2021. (extended AAMAS-21 version).
- James Kotary, Ferdinando Fioretto, Pascal Van Hentenryck, Bryan Wilder. "End-to-End Constrained Optimization Learning: A Survey". CoRR abs/2103.16378, 2021. (extended IJCAI-21 version).

- 6. Terrence W.K. Mak, Ferdinando Fioretto, Pascal Van Hentenryck. "Load Embeddings for Scalable AC-OPF Learning". CoRR abs/2101.03973, 2021.
- 5. Keyu Zhu, Pascal Van Hentenryck, **Ferdinando Fioretto**. *"Bias and Variance of Post-processing in Differential Privacy"*. **CoRR abs**/2010.04327, 2020 (**extended AAAI-21 version**).
- **4**. Minas Chatzos, **Ferdinando Fioretto**, Terrence W.K. Mak, Pascal Van Hentenryck. "*High-Fidelity Machine Learning Approximations of Large-Scale Optimal Power Flow*". **CoRR abs**/2006.16356, 2020.
- 3. Vladimir Dvorkin, **Ferdinando Fioretto**, Pascal Van Hentenryck, Jalal Kazempour, Pierre Pinson. "Differentially Private Convex Optimization with Feasibility Guarantees". **CoRR abs**/2006.12338, 2020.
- 2. Ferdinando Fioretto, Terrence W.K. Mak, Pascal Van Hentenryck. "Predicting AC Optimal Power Flows: Combining Deep Learning and Lagrangian Dual Methods". CoRR abs/1909.10461, 2019 (extended AAAI-20 version).
- 1. **Ferdinando Fioretto**, Terrence W. K. Mak, Pascal Van Hentenryck. "*Privacy-Preserving Obfuscation of Critical Infrastructure Networks*". **CoRR abs**/1905.09778, 2019 (**extended IJCAI-19 version**).

TEACHING

Responsible AI (CS 7000), University of Virginia

Spring 2024 | Course Evaluation: 4.8 (class), 4.82 (instructor) / 5.00

Artificial Intelligence (CS 4710), University of Virginia

Fall 2023 COURSE EVALUATION: 4.33 (class), 4.5 (instructor) / 5.00

Security and Privacy of Machine Learning (CS 700), Syracuse University

 Spring 2020
 COURSE EVALUATION: 4.55/5.00 (median 5.00)

 Spring 2021
 COURSE EVALUATION: 4.46/5.00 (median 5.00)

 Spring 2022
 COURSE EVALUATION: 4.93/5.00 (median 5.00)

Introduction to Artificial Intelligence (CIS 467), Syracuse University

 Fall 2020
 COURSE EVALUATION: 4.56/5.00 (median 5.00)

 Fall 2021
 COURSE EVALUATION: 4.48/5.00 (median 5.00)

 Fall 2022
 COURSE EVALUATION: 4.45/5.00 (median 5.00)

 Fall 2023
 COURSE EVALUATION: 4.15/5.00 (median 5.00)

Discrete Mathematics (CS 375), Syracuse University

RESEARCH: Physics Informed Machine Learning.

RESEARCH: Responsible Generative Al.

Spring 2023 | Course Evaluation : 4.60/5.00 (median 5.00)

MENTORING

Current PhD Students

> James Kotary (UVA, CS) Fall 2020 – current

RESEARCH: Integration of Deep Learning and Optimization.

> Vincenzo Di Vito (UVA CS) Fall 2022 – current

> My Dinh (UVA CS) Spring 2021 – current

RESEARCH: Deep Learning, Optimization, Fairness.

> Saswat Das (UVA CS) Fall 2023 – current

RESEARCH: Responsible AI, Differential Privacy.

> Jacob K. Christopher (UVA CS) Fall 2023 – current RESEARCH: Responsible AI in Generative Models.

> Jinhao Liang (UVA CS) Fall 2024

RESEARCH: Differentiable Optimization.

> Michael Cardei (UVA CS) Fall 2024

RESEARCH: Responsible Generative Al.

> Joseph Moretto (UVA CS)

co-advised with David Evans

Past (Graduated) Students

> Cuong Tran (PhD, Syracuse University, CISE)

Spring 2020 – Spring 2023

RESEARCH: Differential Privacy and Fairness.

DISSERTATION TITLE: The Interplay between Privacy and Fairness in Learning and Decision-making Problems

NEXT POSITION: Research Scientist, Amazon.

> Jacob Kennedy Christopher (MS, SYRACUSE UNIVERSITY)

Spring 2023

RESEARCH: Differentiable Optimiztion.

NEXT POSITION: PhD student at *University of Virginia*.

> Yehya Farhat (MS, SYRACUSE UNIVERSITY)

Fall 2022

DISSERTATION TITLE: Surrogate ML models for optimization.

NEXT POSITION: PhD student at *Rice University*.

Current MS and BS Students

Joonhyuk Ko (BS, UVA CS)
 Matthew Galitz (BS, UVA CS)
 Fall 2023 - current
 Fall 2024
 Jameson Sandler (BS, UVA CS)
 Fall 2024

Other Advised Students and Visitors

> Cuong Tran (Postdoc) Sep 2023 – Mar 2024

RESEARCH: Data Minimization, Fairness in Large Language Models.

> Razan Tajeddine, PhD at U of Helsinki (VISITING POSTDOC)

Sep 2023 – Mar 2024

RESEARCH: Differential Privacy and Fairness.

> St John Grimbly, MS at UniSA (VISITING STUDENT RESEARCHER)

Spring 2023

NEXT POSITION: PhD student at University of South Africa.

> Jayanta Mandi, PhD at KU Leuven (VISITING STUDENT RESEARCHER)

Jun 2022 – Sep 2022

RESEARCH: Decision Focused Learning.

> Rakshit Naidu, MS at CMU (INTERN) Summer 2022

RESEARCH: Privacy and Fairness in ML. NEXT POSITION: PhD student at Georgia Tech

BS and High-School Students

Shujun Xia (BS, City University of Hong Kong, Summer 2024), Zarreen Reza (BS, OpenMined, Spring 2024), Eric Nguyen (BS, University of Virginia, Fall 2023), Catherine Smolka (HS, Deep Run High School, VA, 2023-2024), Pranav Putta (BS, GaTech, Summer 2023) [NSF REU], Winston Tsui (BS, SU Summer 2023), Zhongquan Cheng (BS SU, Summer 2023), Adya Parida (BS SU, Fall 2022) [NSF REU], Deniz Gursoy (HS, Fayetteville High School, Summer 2022), Saswat Das (BS, ITS, Summer 2022), Utsav Pathak (BS, Alliance University, Bengaluru, Summer 2022), Daiwei Shen (BS, Northwestern, Summer 2022), Sunisth Kumar (BS, Bennett University, Summer 2022), Kyle Beiter (BS, SU, Summer 2021) [NSF REU], Shantanu Jhaveri (BS, USC, Summer 2021) [NSF REU], Dayong Gu (BS, SU, Summer 2021), Guoliang Chen (BS, SU, Summer 2021), Pradyumn Yadav (BS, SU, Summer 2021), Anudit Nagar (BS, SU, Summer 2020 – Current), Zhiyan Yao (BS, SU, Summer 2020 – Current), Zifei Lu (BS, SU, Summer 2020), Thomas Montfort (BS, SU, Summer 2020), Cong Liu (BS, SU, Summer 2020), Pratik Paranjape, (BS, SU, Summer 2020), Pavan Kumar Vaddineni (BS, SU, Spring 2020), William Kluegel, (BS, NMSU, 2016 – 2018), Lyndon Shi (BS, UMich, 2018), Jiayu Chen (BS, UMich, 2018), Eric Frechette (BS, NMSU, 2016).

PhD Dissertation Committee

> Guangtao Zheng, (University of Virginia)	2024
> Dung Nguyen, (University of Virginia)	2023
> Elena Long, (University of Virginia)	2023
> Khang Tran, (New Jersey Institute of Technology)	2023
> Keyu Zhu, (Georgia Institute of Technology)	2023
> Adrià Fenoy Barcel, (University of Verona)	2023
> Jeroen Fransman, (Delft University of Technology)	2022
> Pegah Hozhabrierdi, (SYRACUSE UNIVERSITY)	2022
> Carlos Pinzon, (École Polytechnique)	2022
> Baocheng Geng, (Syracuse University)	2021
> Pranay Sharma, (SYRACUSE UNIVERSITY)	2021

TUTORIALS, SELECTED INVITED TALKS AND MEDIA INTERVIEWS

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>	Keynote talk: Privacy and Fairness issues in Large Language Models. S-HPC Workshop, at Supercomputing 24	Nov 2024
>	Invited talk: Unfairness in Constrained Machine Learning. Ohio State University, Department of Computer Science	Nov 2024
>	Invited talk: Constraining diffusion models for scientific applications. UVA LLM Workshop	Oct 2024
>	Invited talk: Privacy and Fairness in Resource Allocations. 2024 Federal Committee on Statistical Methodology (FCSM) Research and Policy Conference	Oct 2024
>	Invited talk: Constrained Diffusion for Science and Engineering. Oklahoma State University, School of Industrial Engineering and Management	Oct 2024
>	Invited talk: Constrained Diffusion for Science and Engineering. University of Virginia, Department of Systems and Information Engineering	Sep 2024
>	Podcast invited speaker: NSI Cyber and Tech Center: "Unleashing Innovation: Navigating Game Changing T – episode on open source large language model. National Security Institute at George Mason University's Antonin Scalia Law School	echnologies" Jul 2024
>	Invited participant and group lead: US-UK Scientific Forum on Science in the Age of Al. **National Academy of Sciences**	Jun 2024
>	Panelist : AI and OR summer school.	May 2024
>	Invited talk: Fairness in ML: The curious case of computational shortcuts and hardware choices. ☑ BuzzRobot	May, 2024
>	Invited talk: The Principle of Data Minimization in Machine Learning. Google Research Seminars	Apr, 2024
>	Media cover: Building fairness into AI is crucial – and hard to get right. ☑ The Conversation, ☑ CHED/QR Radio	Mar 2024
>	Invited talk: Responsible AI in Decision Making Processes. Amazon Research Seminars	Feb 2024
>	Keynote talk : Privacy and Fairness in Societal Systems. Workshop on the Tradeoffs in Ethical AI, INRIA, France	Nov 2023
	Invited talk: Responsible AI: Privacy and Fairness in Decision Making and Learning Tasks. TOC FOR FAIRNESS, Simons Collaboration on the Theory of Algorithmic Fairness	Nov 2023
>	Panelist: Navigating the Frontiers of Artificial Intelligence. The Center for Politics, University of Virginia	Oct 2023
>	Invited talk: Optimization and Learning for Science and Engineering. Conference on Complex Systems 2023	Oct 2023
>	Invited talk: ML for Optimization and Optimization for ML. Al/ML Seminar Series, University of Virginia	Sep 2023
>	Keynote talk : The Unintended Societal Effects of Privacy in Decision and Learning Tasks. IJCAI-2023, International Workshop on Mining Actionable Insights from Social Networks	Aug 2023
>	Invited talk: End-to-end Constrained Optimization Learning. AC Summer School: Machine Learning for Constraint Programming	Jul 2023
>	Invited talk: Differential Privacy for Power Systems. DTU PES Summer School	Jun 2023
>	Invited talk: Optimization Proxies and Differentiable Optimization for Decision Making. MARS Seminar, Pacific Northwest National Laboratory (PNNL)	Jun 2023
>	Invited talk: Constrained-aware Machine Learning in Energy Systems. IEEE Power and Energy Society webinar series	Jun 2023
>	Invited talk: Responsible AI: Privacy and Fairness in Decision and Learning Tasks. UC San Diego	Apr 2023
>	Panelist : ChatGPT : Charms and Challenges. Syracuse University	Apr 2023

>	Invited talk: Responsible AI: Privacy and Fairness in Decision and Learning Tasks. University of Virginia	Mar 2023
>	Invited talk: Constrained-Aware Machine Learning. Washington University in St. Louis	Feb 2023
>	Invited talk: Differential Privacy for Power Systems. Los Alamos National Lab's 5th Grid Science Winter School and Conference	Jan 2023
>	Panelist: Algorithmic Fairness and its Intersections.	Dec 2022
	Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS)	
>	Tutorial : End-to-end constrained optimization learning. 2 21st International Conference of the Italian Association for Artificial Intelligence (AIXIA 2022)	Dec 2022
>	Media cover: How network pruning can skew deep learning models. ☑ Science Daily ☑ TechXplore ☑ AAAS EurekAlert	Nov 2022
>	Invited talk: Disparate Impacts in Privacy-preserving Machine Learning. Washington University in St. Louis	Nov 2022
>	Tutorial : Decision Focused Learning. Dagstuhl seminar on Data-Driven Combinatorial Optimisation	Oct 2022
>	Media interview: Privacy and Fairness in Al. Syracuse Media Report MNSU News Sun News	Jul/Sep 2022
>	Media interview : Google Scholar Research Award. Syracuse Media Report	Jun 2022
>	Tutorial: Impacts of Data Privacy and Equity on Public Policy. ACM Conference on Fairness, Accountability, and Transparency (FAccT)	Jun 2022
>	Panelist: Fostering the Use of AI for Power System Transformation. Climate Change AI	Jun 2022
>	Media interview: NSF CAREER Award. Syracuse Media Report	Jun 2022
>	Invited talk: End-to-end constrained deep learning optimization. Hall of Science (Kantar.com)	Mar 2022
>	Panelist: AAAI-22 DC - Career Panel.	Feb 2022
•	36th AAAI Conference on Artificial Intelligence (AAAI)	7 00 2022
>	Invited talk: Privacy-preserving ML and decisions-making: uses and unintended disparate effects. PriSec-ML (virtual seminars)	Feb 2022
>	Media interview : Al for Climate Change. ☑ RaiNews	Dec 2021
>	Popular Media Report : ISSNAF Young Investigator Award. **The New York Voice** AISE** It Mattino **The New York Voice** Puglia News** **The New York Voice** The New York Voice	Nov 2021
>	Invited talk: Deep Constraint Learning: Applications and Privacy Considerations. ☑ Italian Scientists & Scholars in North America Foundation	Nov 2021
>	Plenary Keynote talk: Constraint-based Differential Privacy. The International Conference on Principle and Practice of Constraint Programming (CP 2021),	Oct 2021
>	Popular Media interview : Deep Learning for Engineering Applications. ☑ Blum News	Nov 2021
>	Invited talk: Privacy-Preserving Machine Learning: Uses and Unintended Disparate Effect. ASPI Seminar (Syracuse University)	Sep 2021
>	Invited talk: Differential Privacy and Machine Learning. SUPA ECS workshop for High School Teachers	May 2021
>	Invited talk: Deep Constraint Learning for Critical Engineering Systems. Italian Scientists & Scholars in North America Foundation	Nov 2020
>	Tutorial: Tutorial on Multiagent Optimization. AAAI Conference on Artificial Intelligence (AAAI 2020)	Feb 2020
>	Media cover: Multiagent Systems. MetworkDigital360	Feb 2020

> Invited talk: Privacy-Preserving Artificial Intelligence. University of Parma (CS Dept)	Jun 2019
> Tutorial: Tutorial on Multiagent Optimization for IoT Applications. ☑ International Conference on Autonomous Agents and Multiagent Systems (AAI	May 2019 MAS 2019)
> Invited talk : Differential Privacy for AI Applications	
University of Southern California - Information Sciences Institute.	Jan 2019
Michigan State University.	Feb 2019
> Invited talk: Privacy Preserving Artificial Intelligence	
Syracuse University.	Feb 2019
Drexel University.	Feb 2019
University of Arkansas.	Feb 2019
Colorado State University.	Mar 2019
University of Connecticut.	Mar 2019
➤ Tutorial: Tutorial on Constrained Multi-agent Optimization. ☑ AAAI Conference on Artificial Intelligence (AAAI 2018)	Feb 2018
> Plenary Keynote talk: Distributed Constraint Optimization for Smart Energy Network Italian Conference on Artificial Intelligence (AI*IA 2017)	orks. Nov 2017
> Invited talk: Distributed Constraint Optimization	
Delft University (TU Delft).	Apr 2016
University of Udine.	Apr 2016
New Mexico State University.	Mar 2016
> Invited talk: Large Neighboring Search for Distributed Constrained Optimization. Ben-Gurion University of the Negev	Mar 2016

RESEARCH GRANTS AND GIFTS

Summary: Total External: \$2,848,003 Total Internal: \$81,000 COHERE FOR AI \$20,000 DEC. 2024-Cohere For Al Research Grant (LLM credits) PI: Ferdinando Fioretto University of Virginia (Research Innovation Award) \$60,000 AUG. 2024-JUN. 2024 Understanding and Mitigating Privacy Leakage Risks for Large Language Model Applications 🗹 PI: Ferdinando Fioretto and David Evans NATIONAL SCIENCE FOUNDATION (CISE - RI) \$350,000 of \$600,000 AUG. 2023-JUN. 2026 Collaborative Research: RI: Small: End-to-end Learning of Fair and Explainable Schedules for Court Systems 🗹 PI: Ferdinando Fioretto (lead), co-PI: Lauryn Gouldin NATIONAL SCIENCE FOUNDATION (EECS - EPCN) \$260,000 of \$520,000 AUG. 2023-JUN. 2026 Collaborative Research: Physics Informed Real-time Optimal Power Flow PI: Ferdinando Fioretto AMAZON RESEARCH AWARDS AWS AI \$55,000 JAN. 2023-Toward Understanding the Unintended Disparate Impacts of Private Machine Learning Systems 🗹 PI: Ferdinando Fioretto NATIONAL SCIENCE FOUNDATION (CAREER, CISE - RI) \$515,403 MAR. 2022-FFB. 2027 CAREER: End-to-end Constrained Optimization Learning PI: Ferdinando Fioretto GOOGLE RESEARCH SCHOLAR AWARD \$60,000 JUL. 2022-On the Equity of Differentially Private Decision Processes PI: Ferdinando Fioretto NATIONAL SCIENCE FOUNDATION (CISE - SATC) \$281,000 of \$500,000 OCT. 2021-SEP. 2025 Collaborative Research : SaTC : Core : Small : Privacy and Fairness in Critical Decision Making 🗗 PI: Ferdinando Fioretto (lead) NATIONAL SCIENCE FOUNDATION (CISE - RI) \$266,000 of \$500,000 OCT. 2020-SEP. 2024 Collaborative Research: RI: Small: Deep Constrained Learning for Power Systems PI: Ferdinando Fioretto **CUSE PROGRAM** \$21,000 of \$21,000 JUN. 2021-MAY 2023 On the Potential Perils of Fairness Algorithms in Decision Making and Learning Tasks 🗹 PI: Ferdinando Fioretto, co-PI: Sucheta Soundarajan TRAVEL AND SERVICE GRANTS NATIONAL SCIENCE FOUNDATION \$50,000 MAY. 2024-Conference: Artificial Intelligence Summer School for Computer Science and Operations Research Education 🗹 PI: Lavanya Marla and Ferdinando Fioretto ARTIFICIAL INTELLIGENCE JOURNAL \$4,000 MAR. 2024-Student Support AU-SCORE 2024 PI: Ferdinando Fioretto and Lavanya Marla ARTIFICIAL INTELLIGENCE JOURNAL \$15,000 JAN. 2023-Student Support for AAMAS 2023 PI: Ana L. C. Bazzan and Ferdinando Fioretto

NATIONAL SCIENCE FOUND Travel: Travel: Doctoral Multiagent Systems PI: Ferdinando Fioretto		ernational Conference on Autonomous	May. 2023– Agents and
OPENDP \$500 Support for Scholarship at PI: Ferdinando Fioretto	wards to attend the 2025 AAAI Privacy Pro	eserving AI workshop 🗹	FEB. 2024-
GOOGLE \$5,000 Support for Scholarship at PI: Ferdinando Fioretto	wards to attend the 2023 AAAI Privacy Pro	eserving Al workshop 🖸	FEB. 2023-
GOOGLE \$2,500 Support for Scholarship at PI: Ferdinando Fioretto	wards to attend the 2023 AAAI Privacy Pre	eserving Al workshop 🗹	FEB. 2022-
Service			
CONFERENCE CHAIR International Conference with Roie Zivan	e on Principles and Practice of Constrai	nt Programming (CP)	2022
-	Privacy Preserving Artificial Intelligence Zhang, and Jeremy Seeman	e (PPAI), at AAAI	2025
> Algorithmic Fairness thr	ough the lens of Metrics and Evaluation	(AFME), at NeurIPS	2024
	ateike, and Golnoosh Farnadi nable Optimization (LEARNOPT), at AAAI		2024
with Elias B. Khalil, Pasca	l Van Hentenryck, Jan Drgona, Draguna V	rabie, and Priya Donti	
	Privacy Preserving Artificial Intelligence Task, and Niloofar Mireshghallah	e (PPAI), at AAAI	2024
	ough the lens of Time (AFT), at NeurlPS ateike, and Golnoosh Farnadi		2023
> Workshop on Optimizati	ion and Learning in Multi-Agent System Li, Filippo Bistaffa, and James Kotary	s, at AAMAS	2023
	on Privacy Preserving Artificial Intelliger si, and Pascal Van Hentenryck	nce (PPAI), at AAAI	2023
> Algorithmic Fairness thr	ough the lens of Causality and Privacy (ateike, and Golnoosh Farnadi	(AFCP), at NeurIPS	2022
Workshop on Optimizati with Hau Chan and Jiaoya	ion and Learning in Multi-Agent System	s, at AAMAS	2022
> Third AAAI Workshop on	ung Er Privacy Preserving Artificial Intelligenc and Pascal Van Hentenryck	e (PPAI), at AAAI	2022
AAAI Workshop on Mach	ine Learning for Operational Research ((ML4OR), at AAAI	2022
	s Khalil, and Pashootan Vaezipoor on Privacy Preserving Artificial Intellige ock and Richard W. Evans	nce (PPAI), at AAAI	2021
> Workshop on Optimizati	ion and Learning in Multi-Agent System	s (OptLearnMAS), at AAMAS	2021
*	nier Picard, and Bryan Wilder Privacy Preserving Artificial Intelligence	(PPAI) at AAAI	2020
with Pascal Van Hentenry		. (1 1 A1), at AAA	2020
Workshop on Optimizati with Bryan Wilder and Lor	ion and Learning in Multi-Agent System ng Tran-Thanh	s (OptLearnMAS), at AAMAS	2020

> Workshop on Optimization in Multi-Agent Systems (OptMAS), at AAMAS	2019
with Archie Chapman and Long Tran-Thanh	
> Workshop on Optimization in Multi-Agent Systems (OptMAS), at FAIM18 with Archie Chapman, Long Tran-Thanh, and Roie Zivan	2018
CONFERENCE ORGANIZING COMMITTEE	2022
> Demo Track Chair: International Joint Conference on Artificial Intelligence (IJCAI)	2023
 Scholarship Chair: International Conference on Autonomous Agents and Multiagent Systems (AAMAS Tutorial Chair: International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 	
 Trutchiat Chair: International Conference on Principles and Practice of Constraint Programming (CP) 	2022 2018 – 2019
 Publicity Chair: International Conference on Logic Programming (ICLP) 	2018 – 2019
> Track Chair: International Symposium on Mathematical Programming (ISMP)	2019
7 Hack Chair . International Symposium on Mathematical Frogramming (ISMF)	2010
AWARD COMMITTEE ➤ ACP Early Career Researcher Award committee	2024
> ISSNAF Mario Gerla Young Investigator Award	2023
Service to Journals	
> Editorial Board Member : Artificial Intelligence	2024-present
> Associate Editor : IISE Transactions Special issue on Federated Learning	2023
> Guest Editor : Theory and Practice of Logic Programming (TPLP) Past and Present (and Future) of Pa	
Computation in (Constraint) Logic Programming	2018
SENIOR AREA CHAIR > AAAI Conference on Artificial Intelligence (AAAI)	2025
> ACM Conference on Fairness, Accountability, and Transparency (FAccT)	2023 – 2025
> International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)	2024 – 2025
> International Joint Conference on Artificial Intelligence (IJCAI)	2024 – 2025
> European Conference on Artificial Intelligence (ECAI)	2023 - 2024
Area Chair	
> AAAI Conference on Artificial Intelligence (AAAI)	2020 – 2024
> International Joint Conference on Artificial Intelligence (IJCAI)	2021 – 2023
> International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)	2023
> International Conference on Principles and Practice of Constraint Programming (CP)	2018, 2019, 2022
> Neural Information Processing Systems (NeurIPS)	2024
Workshop/Tutorial Proposal Reviewer	
> International Conference on Machine Learning (ICML)	2024
> Neural Information Processing Systems (NeurIPS)	2023, 2024
> International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)	2022
Program Committee	
> Bridge Program on Al and OR, at AAAl	2024
> Neural Information Processing Systems (NeurIPS)	2020 – 2023
> International Conference on Machine Learning (ICML)	2021 – 2024
> International Conference on Learning Representations (ICLR)	2021 – 2025
> Privacy Enhancing Technologies Symposium (PETS)	2021 – 2023
> Electric Power System Research (PSCC)	2022
> International Conference on Logic Programming (ICLP)	2021
> International Conference on Principles and Practice of Constraint Programming (CP)	2016 – 2018, 2021
> International Joint Conference on Artificial Intelligence (IJCAI)	2016 – 2020
> European Conference on Machine Learning (ECML)	2020
> International Symposium on Combinatorial Search (SoCS)	2015 – 2020
> International Workshop on Optimization and Learning in Multi-Agent Systems (OptLearnMAS)	2020

 AAAI Conference on Artificial Intelligence (AAAI) Italian Conference on Computational Logic (CILC) Distributed Artificial Intelligence (DAI) European Conference on Artificial Intelligence (ECAI) International Workshop on Optimization in Multi-Agent Systems (OptMAS) Italian Conference on Artificial Intelligence (AI*IA) 	2018 - 2019 2017 - 2019 2019 2016 - 2018 2016 - 2017 2017
JOURNAL REVIEWER > Harvard Data Science Review > INFORMS Journal on Computing > Transactions on Machine Learning Research (TMLR) > Journal of Artificial Intelligence Research (JAIR) > Artificial Intelligence Journal (AIJ) > Journal of Machine Learning Research (JMLR) > IEEE Transactions on Smart Grid > IEEE Transactions on Power Systems > IEEE Transactions on Dependable and Secure Computing > IEEE Transactions on Information Forensics & Security	2024 2022, 2023 2022 2016 - 2022 2016 - 2021 2021 2019 - 2021 2020 - 2021 2020 2019 - 2020
 > Gates Open Research > Patterns > Autonomous Agents and Multi-Agent Systems (JAAMAS) > Artificial Intelligence Review (AIR) > Fundamenta Informaticae Journal > Al Communications > Algorithms for Molecular Biology (AMB) DOCTORAL CONSORTIA MENTORING 	2020 2020 2014 - 2017, 2019 - 2020, 2023 2016 - 2017 2016 - 2017 2017 2014
 AAAI Conference on Artificial Intelligence (AAAI) CONFERENCE/SYMPOSIUM/WORKSHOP REVIEWER European Control Conference (ECC) AAAI Conference on Artificial Intelligence (AAAI) International Conference on Autonomous Agents and Multiagent Systems (AAMAS) International Conference on Principles and Practice of Constraint Programming (CP) International Conference on Principles and Practice of Multi-Agent Systems (PRIMA) International Joint Conference on Artificial Intelligence (IJCAI) International Conference on Logic Programming (ICLP) International Symposium on Combinatorial Search (SoCS) International Workshop on Distributed Constraint Reasoning (DCR) EURO-Par Parallel Processing (EUROPAR) 	2022 2021 2014 - 2017 2014 - 2016 2016 - 2017 2016 2015 2015 2014 2014
 Principles and Practice of Declarative Programming (PPDP) PANEL REVIEWER NSF, CISE Panel (×2) Austrian Research Promotion Agency (FFG) NSF, Eng Panel NSF, NRT Panel NSF, SaTC Panel NSF, CISE Panel Israel Science Foundation (IIS) (external reviewer) Climate Change AI (CCAI) Grant CUSE Grant, Syracuse University NSF, CISE RI (external reviewer) 	2014 2024 2023 2023 2022 2022 2022 2022 – 2023 2022 – 2023 2020 – 2021 2020

2024
2023 - 2024
2023 – 2024
2023 – 2024
2022 – 2023
2021 – 2022
2022