

Ferdinando FIORETTO

Assistant Professor

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Research Interest: Artificial Intelligence, Integration of Machine Learning and Combinatorial Optimization, Differential Privacy, Algorithmic Fairness, Multiagent Systems.

PROFESSIONAL EXPERIENCE

Current Jan. 2020	Syracuse University , <i>Electrical Engineering & Computer Science</i> , 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 Jan. 2012	University of Udine ¹ , <i>Computer Science</i> , Udine, IT PH.D. IN COMPUTER SCIENCE
Dec. 2011 Aug. 2010	New Mexico State University , <i>Computer Science</i> , Las Cruces, NM MS. IN COMPUTER SCIENCE
Nov. 2009 Nov. 2005	University of Parma , <i>Computer Science & Mathematics</i> , Parma, IT BS. IN COMPUTER SCIENCE

SELECTED HONORS AND AWARDS

RESEARCH

- 2022 **Early Career Spotlight talk**, IJCAI. [🔗 https://ijcai-22.org/](https://ijcai-22.org/)
- 2022 **Google Research Scholar Award**, Google. [🔗 Link](#)
- 2022 **NSF CAREER Award**, National Science Foundation. [🔗 Press](#)
- 2022 **Best Paper Award**, IEEE Transaction of Power System. [🔗 Link](#)
- 2021 **Early Career Researcher Award**, Association for Constraint Programming. [🔗 Link](#)
- 2021 **Mario Gerla Young Investigator Award for Research in Computer Science**, ISSNAF. [🔗 Press](#)
- 2021 **Outstanding Reviewer Award**, NeurIPS. [🔗 Link](#)
- 2021 **Best Paper Award**, IEEE Transaction of Power System. [🔗 Link](#)
- 2020 **Differentially Private Temporal Map Challenge Award, \$5000**, NIST. [🔗 Press](#)
- 2020 **Young Investigator Award (Nomination)**, ISSNAF. [🔗 Press](#)
- 2019 **Journal track invited paper**, IJCAI. [🔗 Link](#)
- 2017 **Best AI Dissertation Award**, AI*IA. [🔗 Press](#)
- 2017 **Most Visionary Workshop Paper Award**, AAMAS. [🔗 Link](#)
- 2013 **Ph.D. Scholarship Award (~\$50,000)**, University of Udine.
- 2013 **Best Student Paper Award**, Computational Methods in System Biology (CMSB). [🔗 Link](#)
- 2013 **Outstanding Research Assistant Award**, Computer Science, NMSU. [🔗 Press](#)
- 2012 **Outstanding Graduate Assistantship Award**, NMSU (school-wide).

TEACHING

1. Dual degree with New Mexico State University

- 2014 **Outstanding Teaching Assistant (Nomination)**, Computer Science, NMSU.
 2012 **Outstanding Teaching Assistant Award**, Computer Science, NMSU. [🔗 Press](#)

OTHER AWARDS

Top 5% Graduate Student Honor's Cord (NMSU, 2016), Computer Science Scholarship (\$1500) (NMSU, 2013), Honors Graduate Recognition for Outstanding Academic Success (NMSU, 2012) Erasmus Scholarship (~ \$14,000) (University of Leeds, 2008).

TRAVEL GRANTS

AAAI'20 Tutorial and Workshops (2020), AAAI'18 Tutorial Grant (2018), CP'16 Travel Support (2016), IJ-CAI'16 Travel Support (2016), AAMAS'16 Travel Support (2016), CP'15 Travel Support (2015), AAMAS'15 Travel Support (2015), AAAI/SIGAI Doctoral Consortium Travel Support (2015), CP'14 Travel Support (2014), CMSB'13 Conference Funding (2013), RR'13 NFS Travel Support (2013), ASNMSU Conference Funding (2012,2013,2014,2015), NMSU Graduate Student Travel Grant (2012).

RESEARCH GRANTS


Summary: Total External : \$1,106,403 Total Internal : \$21,000

- GOOGLE RESEARCH SCHOLAR AWARD** \$60,000 JUL. 2022–JUN. 2023
 On the Equity of Differentially Private Decision Processes [🔗](#)
 PI : Ferdinando Fioretto
- NATIONAL SCIENCE FOUNDATION (CISE - RI)** \$515,403 MAR. 2022–FEB. 2027
 CAREER : End-to-end Constrained Optimization Learning [🔗](#)
 PI : Ferdinando Fioretto
- NATIONAL SCIENCE FOUNDATION (CISE - SATC)** \$265,000 OCT. 2021–SEP. 2024
 Collaborative Research : SaTC : Core : Small : Privacy and Fairness in Critical Decision Making [🔗](#)
 PI : Ferdinando Fioretto (lead)
- CUSE PROGRAM** \$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
- NATIONAL SCIENCE FOUNDATION (CISE - RI)** \$266,000 OCT. 2020–SEP. 2023
 Collaborative Research : RI : Small : Deep Constrained Learning for Power Systems [🔗](#)
 PI : Ferdinando Fioretto

PUBLICATIONS

Summary: > 12 Journals articles > 49 Conference papers > 2 Book chapters > 2 Editorial articles
 > 19 Workshop papers > 33 Preprints

Total citations: 1076 H-index: 20 [🔗 Google Scholar](#) CS-rankings [from 2019]: 12 (count)

Names of students I supervise(d) are prepended with symbol .

JOURNALS

- JAIR** 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. [🔗](#)
- AIJ** **Ferdinando Fioretto**, Pascal Van Hentenryck, Keyu Zhu. “Differential Privacy of Hierarchical Census Data : An Optimization Approach”. *Artificial Intelligence Journal (AIJ)*, (296), pages 103475, 2021. [🔗](#)
- IEEE-TPS** 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. [🔗](#)

🏆 Best IEEE TPS paper award (given to 8 out of all TPS papers published in 2019–2021).

IEEE-TSG 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. [↗](#)

IEEE-TPS 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. [↗](#)

🏆 Best IEEE TPS paper award (given to 7 out of all TPS papers published in 2018–2020).

JAIR 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.

IA 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. [↗](#)

🏆 Accompanying paper – Best 2017 Thesis in Artificial Intelligence (AI*IA).

JAIR 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. [↗](#)

AI Matters Ferdinando Fioretto, William Yeoh. “*AI Buzzwords Explained: Distributed Constraint Optimization Problems*”. *AI Matters*, 3 (4), pages 8–13, 2018. [↗](#)

Constraints Ferdinando Fioretto, Enrico Pontelli, William Yeoh, Rina Detcher. “*Accelerating Exact and Approximate Inference for (Distributed) Discrete Optimization with GPUs*”. *Constraints*, 23 (1), pages 1–43, 2018. [↗](#)

TOMACS 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. [↗](#)

JAIR $(\alpha\text{-}\beta)^2$ 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. [↗](#)

CONFERENCES

2022

IJCAI 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%.

IJCAI 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% (survey track).

IJCAI 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.

WWW 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%.


AAAI 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%.



PMAPS 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: Unknown.



2. Author list is order alphabetically.


PMAPS Mostafa Mohammadian, Kyri Baker,  My H. Dinh, **Ferdinando Fioretto**. “*Learning Solutions for Inter-temporal Power Systems Optimization with Recurrent Neural Networks*”. *Proceedings of the International Conference on Probabilistic Methods Applied to Power Systems (PMAPS)*, 2022. [↗](#)
Acceptance Rate : Unknown.

2021


NeurIPS  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%.


NeurIPS  James Kotary, **Ferdinando Fioretto**, Pascal Van Hentenryck. “*Learning Hard Optimization Problems : A Data Generation Perspective*”. *Proceedings of the Conference on Neural Information Processing Systems (NeurIPS)*, 2021. [↗](#)
Acceptance Rate : 26%.

IJCAI  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%.

IJCAI  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%.

AAAI 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%.


AAAI  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%.

AAMAS  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%.

CP **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.


PowerTech Vladimir Dvorkin, **Ferdinando Fioretto**, Pascal Van Hentenryck, Jalal Kazempour, Pierre Pinson. “*Differentially Private Optimal Power Flow for Distribution Grids*”. *IEEE PowerTech*, 2021. [↗](#)
Acceptance Rate : unknown.

2020

ECML **Ferdinando Fioretto**, Pascal Van Hentenryck, Terrence W.K. Mak,  Cuong 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%.

IJCAI **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%.

IJCAI **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 : unknown.

 Invited to the IJCAI journal track

PSCC 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 : ~30%.

AAAI **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%.

PRIMA **Ferdinando Fioretto**, 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

AAMAS **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%.

IJCAI **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%.

CP **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%.

👉 **Invited to Constraint journal** – selected papers (declined)

2018

PRIMA **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%.

AAMAS **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%.

CP **Ferdinando Fioretto**, 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%.

CPAIOR **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%.

ISIAM **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 : Unknown.

2017

AAMAS **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 : 25%.

AAMAS **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 : 25%.

AAMAS 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 : 25%.

CP 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%.

2016

AAMAS 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 : 25%.

AAMAS 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 : 25%.

AAAI **Ferdinando Fioretto**, William Yeoh, Enrico Pontelli. “*Multi-Variable Agent Decompositions for DCOPs*”. *Proceedings of the AAI Conference on Artificial Intelligence (AAAI)*, pages 2480–2486, 2016. [↗](#)

Acceptance Rate : 26%.

CP **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%.

2015

CP **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 : 49%.

AAMAS **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%.

AAMAS **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%.

AAMAS **Ferdinando Fioretto**. “*Exploiting the Structure of Distributed Constraint Optimization Problems*”. *Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, (doctoral program) pages 2007–2008, 2015. [↗](#)

Acceptance Rate : Unknown.

AAAI **Ferdinando Fioretto**. “*Exploiting the Structure of Distributed Constraint Optimization Problems*”. *Proceedings of the AAI Conference on Artificial Intelligence (AAAI)*, (doctoral program) pages 4233–4234, 2015. [↗](#)

Acceptance Rate : Unknown.

≤2014

ECAI (α - β) 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%.

CP **Ferdinando Fioretto**, Tiej 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 : 50%.

PADL (α - β) **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%.

AAMAS **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%.

CMSB **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%.

🏆 **Best Student Paper Award**

CP (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%.

Neuroscience 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 : Unknown.

BOOK CHAPTERS AND EDITORIAL ARTICLES

AI Mag. **Ferdinando Fioretto**, et al.. “*Reports of the Workshops Held at the 2021 AAAI Conference on Artificial Intelligence*”. *AI Magazine*, 2021. [↗](#)

AI Mag. **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. [↗](#)

LNCS 🧑 **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 (LNCS)*, LNCS, volume 10643 pages 125–142, Springer, 2017. [↗](#)

🏆 **Visionary Paper Award** (AAMAS workshop series).

LNBP 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. [↗](#)

WORKSHOPS & PRESENTATIONS

PPAI 🧑 **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

TPDP 🧑 **Cuong Tran**, **Ferdinando Fioretto**. “*Decision Making with Differential Privacy under the Fairness Lens*”. *Theory and Practice of Differential Privacy (TPDP)* – at ICML, 2021. [↗](#)



OptLMAS 🧑 **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. [↗](#)

- PPAI **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. [↗](#)
- INFORMS **Ferdinando Fioretto, Cuong Tran, Pascal Van Hentenryck.** “*Lagrangian Duality for Constrained Deep Learning*”. *INFORMS*, 2020. [↗](#)
- INFORMS Lesia Mitridati, **Ferdinando Fioretto, Pascal Van Hentenryck.** “*Differential Privacy For Stackelberg Games: An Application To Gas And Electricity Markets*”. *INFORMS*, 2020. [↗](#)
- OptMAS 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. [↗](#)
- OptMAS **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. [↗](#)
- OptMAS 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. [↗](#)
- AISGSB **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. [↗](#)
- MPREF 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. [↗](#)
- TADA 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. [↗](#)
- AISGSB Khoi Hoang, **Ferdinando Fioretto, Ping Hou, Makoto Yokoo, William Yeoh, Roie Zivan.** “*Proactive Dynamic DCOPs*”. *Workshop on AI for Smart Grids and Smart Buildings (AISGSB)–at AAAI*, 2016. [↗](#)
- OptMAS **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. [↗](#)
- OptMAS **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. [↗](#)
- WCB (α - β) 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. [↗](#)
- ParSearchOpt (α - β) 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. [↗](#)
- WCB **Ferdinando Fioretto, Enrico Pontelli.** “*Community-based Gene Regulatory Network Inference via Constraint Programming*”. *Workshop on Constraint Based Methods for Bioinformatics (WCB)–at CP*, 2013. [↗](#)
- WCB (α - β) 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. [↗](#)
- WCB (α - β) 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. [↗](#)

PREPRINTS AND ARCHIVED ARTICLES

- ArXiv **Ferdinando Fioretto, Cuong Tran, Pascal Van Hentenryck, Keyu Zhu.** “*Differential Privacy and Fairness in Decisions and Learning Tasks: A Survey*”. *CoRR abs/2202.08187*, 2022. [↗](#)
- ArXiv Keyu Zhu, **Ferdinando Fioretto, Pascal Van Hentenryck.** “*Post-processing of Differentially Private Data: A Fairness Perspective*”. *CoRR abs/2201.09425*, 2022. [↗](#)

- ArXiv Lesia Mitridati, Emma Romei, Gabriela Hug, **Ferdinando Fioretto**. “Differentially-Private Heat and Electricity Markets Coordination”. [CoRR abs/2201.10634](#), 2022. [↗](#)
- ArXiv Sawinder Kaur, **Ferdinando Fioretto**, Asif Salekin. “Deadwooding : Robust Global Pruning for Deep Neural Networks”. [CoRR abs/2202.05226](#), 2022. [↗](#)
- ArXiv  My H. Dinh, **Ferdinando Fioretto**, Mostafa Mohammadian, Kyri Baker. “Towards Understanding the Unreasonable Effectiveness of Learning AC-OPF Solutions”. [CoRR abs/2111.11168](#), 2021. [↗](#)
- ArXiv  James Kotary, **Ferdinando Fioretto**, Pascal Van Hentenryck, Ziwei Zhu. “End-to-end Learning for Fair Ranking Systems”. [CoRR abs/2111.10723](#), 2021. [↗](#)
- ArXiv  James Kotary, **Ferdinando Fioretto**, Pascal Van Hentenryck. “Fast Approximations for Job Shop Scheduling : A Lagrangian Dual Deep Learning Method”. [CoRR abs/2110.06365](#), 2021. [↗](#)
- ArXiv  Cuong Tran,  My H. Dinh,  Kyle Beiter, **Ferdinando Fioretto**. “A Fairness Analysis on Private Aggregation of Teacher Ensembles”. [CoRR abs/2109.08630](#), 2021. [↗](#)
- ArXiv  Cuong Tran,  My H. Dinh, **Ferdinando Fioretto**. “Differentially Private Deep Learning under the Fairness Lens”. [CoRR abs/2106.02674](#), 2021. [↗](#)
- ArXiv  James Kotary **Ferdinando Fioretto**, Pascal Van Hentenryck. “Learning Hard Optimization Problems : A Data Generation Perspective”. [CoRR abs/2106.02601](#), 2021. [↗](#)
- ArXiv  Anudit Nagar,  Cuong Tran, **Ferdinando Fioretto**. “A Privacy-Preserving and Trustable Multi-agent Learning Framework”. [CoRR abs/2106.01242](#), 2021. [↗](#)
- ArXiv **Ferdinando Fioretto**,  Cuong Tran, Pascal Van Hentenryck. “Decision Making with Differential Privacy under a Fairness Lens”. [CoRR abs/2105.07513](#), 2021. [↗](#)
- ArXiv  James Kotary, **Ferdinando Fioretto**, Pascal Van Hentenryck, Bryan Wilder. “End-to-End Constrained Optimization Learning : A Survey”. [CoRR abs/2103.16378](#), 2021. [↗](#)
- ArXiv Terrence W.K. Mak, **Ferdinando Fioretto**, Pascal VanHentenryck. “Load Embeddings for Scalable AC-OPF Learning”. [CoRR abs/2101.03973](#), 2021. [↗](#)
- ArXiv Keyu Zhu, Pascal Van Hentenryck, **Ferdinando Fioretto**. “Bias and Variance of Post-processing in Differential Privacy”. [CoRR abs/2010.04327](#), 2020. [↗](#)
- ArXiv  Cuong Tran, **Ferdinando Fioretto**, Pascal Van Hentenryck. “Differentially Private and Fair Deep Learning : A Lagrangian Dual Approach”. [CoRR abs/2009.12562](#), 2020. [↗](#)
- ArXiv 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. [↗](#)
- ArXiv **Ferdinando Fioretto**, Pascal Van Hentenryck, Keyu Zhu. “Differential Privacy of Hierarchical Census Data : An Optimization Approach”. [CoRR abs/2006.15673](#), 2020. [↗](#)
- ArXiv Vladimir Dvorkin, **Ferdinando Fioretto**, Pascal Van Hentenryck, Jalal Kazempour, Pierre Pinson. “Differentially Private Convex Optimization with Feasibility Guarantees”. [CoRR abs/2006.12338](#), 2020. [↗](#)
- ArXiv Vladimir Dvorkin, **Ferdinando Fioretto**, Pascal Van Hentenryck, Jalal Kazempour, Pierre Pinson. “Differentially Private Optimal Power Flow for Distribution Grids”. [CoRR abs/2004.03921](#), 2020. [↗](#)
- ArXiv **Ferdinando Fioretto**, Lesia Mitridati, Pascal Van Hentenryck. “Differential Privacy for Stackelberg Games”. [CoRR abs/2002.00944](#), 2020. [↗](#)
- ArXiv **Ferdinando Fioretto**, Pascal Van Hentenryck, Terrence W.K. Mak,  Cuong Tran, Federico Baldo, Michele Lombardi. “A Lagrangian Dual Framework for Deep Neural Networks with Constraints”. [CoRR abs/2001.09394](#), 2020. [↗](#)
- ArXiv **Ferdinando Fioretto**, Terrence W.K. Mak, Pascal Van Hentenryck. “Bilevel Optimization for Differentially Private Optimization”. [CoRR abs/2001.09508](#), 2020. [↗](#)
- ArXiv **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. [↗](#)
- ArXiv **Ferdinando Fioretto**, Terrence W. K. Mak, Pascal Van Hentenryck. “Privacy-Preserving Obfuscation of Critical Infrastructure Networks”. [CoRR abs/1905.09778](#), 2019. [↗](#)
- ArXiv Terrence W.K. Mak, **Ferdinando Fioretto**, Pascal Van Hentenryck. “Privacy-Preserving Obfuscation for Distributed Power Systems”. [CoRR abs/1910.04250](#), 2019. [↗](#)

- ArXiv **Ferdinando Fioretto**, Terrence W.K. Mak, Pascal Van Hentenryck. “*Differential Privacy for Power Grid Obfuscation*”. [CoRR abs/1901.06949](#), 2019. [↗](#)
- ArXiv **Ferdinando Fioretto**, Pascal Van Hentenryck. “*Differential Private Stream Processing of Energy Consumption*”. [CoRR abs/1808.01949](#), 2018. [↗](#)
- ArXiv  William Kluegel,  Muhammad Aamir Iqbal, **Ferdinando Fioretto**, William Yeoh, Enrico Pontelli. “*A Realistic Dataset for the Smart Home Device Scheduling Problem for DCOPs*”. [CoRR abs/1702.06970](#), 2017. [↗](#)
- ArXiv **Ferdinando Fioretto**, Agostino Dovier, Enrico Pontelli, William Yeoh, Roie Zivan.. “*Solving DCOPs with Distributed Large Neighborhood Search*”. [CoRR abs/1702.06915](#), 2017. [↗](#)
- ArXiv **Ferdinando Fioretto**, Enrico Pontelli, William Yeoh. “*Distributed Constraint Optimization Problems and Applications: A Survey*”. [CoRR abs/1602.06347](#), 2016. [↗](#)
- ArXiv **Ferdinando Fioretto**, Enrico Pontelli, William Yeoh, Rina Dechter. “*Accelerating Exact and Approximate Inference for (Distributed) Discrete Optimization with GPUs*”. [CoRR abs/1608.05288](#), 2016. [↗](#)

TEACHING

Fall 2021	Introduction to Artificial Intelligence (CIS 467) , <i>Syracuse University</i> COURSE EVALUATION : 4.38/5.00 (median 5.00)
Spring 2021	Security and Privacy of Machine Learning (CS 700) , <i>Syracuse University</i> COURSE EVALUATION : 4.46/5.00 (median 5.00)
Fall 2020	Introduction to Artificial Intelligence (CIS 467) , <i>Syracuse University</i> COURSE EVALUATION : 4.56/5.00 (median 5.00)
Spring 2020	Security and Privacy of Machine Learning (CS 700) , <i>Syracuse University</i> COURSE EVALUATION : 4.55/5.00 (median 5.00)
Fall 2013	C Programming (CS 176/450) , <i>New Mexico State University</i> COURSE EVALUATION : unknown

MENTORING

PhD Students

- > **Cuong Tran** (SYRACUSE UNIVERSITY, CISE) 2020 – current
 RESEARCH : Differential Privacy and Fairness.
- > **James Kotary** (SYRACUSE UNIVERSITY, CISE) 2020 – current
 RESEARCH : Integration of Deep Learning and Optimization.
- > **My Dinh** (SYRACUSE UNIVERSITY CISE) 2021 – current
 RESEARCH : Differential Privacy, Machine Learning for Energy Systems.
- > **Shayan Ehsani** (SYRACUSE UNIVERSITY, CISE) 2022 – forthcoming
 RESEARCH : Integration of Deep Learning and Optimization.

MS Students

- > **Vincenzo Di Vito** (FEDERICO SECONDO (IT), CS) 2022
 RESEARCH : Develop paradigms for Learning to optimize.
- > **Pratik Paranjape** (SYRACUSE UNIVERSITY, CISE) 2020
 RESEARCH : Generating datasets for preference elicitation.
 First job after graduation : *Developer at OthersideAI*
- > **Pavan Kumar Vaddineni** (SYRACUSE UNIVERSITY, CISE), 2020
 RESEARCH : Explainable and Fair Learning.
 First job after graduation : *Same*
- > **William Kluegel** (New Mexico State University, CS) 2016 – 2018
 RESEARCH : *Optimization and Preferences Elicitation for Smart Home Devices*.
 First job after graduation : *Sandia National Labs*

BS Students

Kyle Beiter (SU, Summer 2021 – Current) [REU], Shantanu Jhaveri (USC, Summer 2021) [REU], Dayong Gu (SU, Summer 2021), Guoliang Chen (SU, Summer 2021), Pradyumn Yadav (SU, Summer 2021), Anudit Nagar (SU, Summer 2020 – Current), Zhiyan Yao (SU, Summer 2020 – Current), Zifei Lu (SU, Summer 2020), Thomas Montfort (SU, Summer 2020), Cong Liu (SU, Summer 2020), Lyndon Shi (UMich, 2018) Jiayu Chen (UMich, 2018) Eric Frechette (NMSU, 2016).

PhD Dissertation Committee

- > Jeroen Fransman, (DELFT UNIVERSITY OF TECHNOLOGY) 2022
- > Carlos Pinzon, (ÉCOLE POLYTECHNIQUE) 2022
- > Baocheng Geng, (SYRACUSE UNIVERSITY) 2021
- > Pranay Sharma, (SYRACUSE UNIVERSITY) 2021

TUTORIALS, SELECTED INVITED TALKS AND POPULAR MEDIA TALKS

- > **Invited Talk** : End-to-end constrained deep learning optimization
Hall of Science (Kantar.com) Mar 2022
- > **Panelist** : AAAI-22 DC - Career Panel
[36th AAAI Conference on Artificial Intelligence \(AAAI\)](#) Feb 2022
- > **Invited Talk** : Privacy-preserving ML and decisions-making : uses and unintended disparate effects
[PriSec-ML \(virtual seminars\)](#) Feb 2022
- > **Media Interview** : AI for Climate Change
[RaiNews](#) Dec 2021
- > **Popular Media Report** : ISSNAF Young Investigator Award
[New York Voice](#) [AISE](#) [Il Mattino](#) [Startuptalia](#) [Zox](#) [PugliaNews](#) 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
[NetworkDigital360](#) 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 \(AAMAS 2019\)](#) May 2019
- > **Invited Talk** : Differential Privacy for AI Applications
University of Southern California - Information Sciences Institute Jan 2019
Michigan State University Feb 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 Networks
*Italian Conference on Artificial Intelligence (AI*IA 2017)* 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

SERVICE

CONFERENCE CHAIR

- › International Conference on Principles and Practice of Constraint Programming (CP) 2022
with Roie Zivan

WORKSHOP CHAIR

- › Third AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI-22) 2022
with Aleksandra Korolova and Pascal Van Hentenryck
- › AAAI Workshop on Machine Learning for Operational Research (ML4OR-22) 2022
with Emma Frejinger, Elias Khalil, and Pashootan Vaezipoor
- › Second AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI-21) 2021
with Pascal Van Hentenryck and Richard W. Evans
- › Workshop on Optimization and Learning in Multi-Agent Systems, at AAMAS 2021
with Amulya Yadev, Gauthier Picard, and Bryan Wilder
- › First AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI-20) 2020
with Pascal Van Hentenryck and Rachel Cummings
- › Workshop on Optimization and Learning in Multi-Agent Systems, at AAMAS 2020
with Bryan Wilder and Long Tran-Thanh
- › Workshop on Optimization in Multi-Agent Systems, at AAMAS 2019
with Archie Chapman and Long Tran-Thanh
- › Workshop on Optimization in Multi-Agent Systems, at FAIM18 2018
with Archie Chapman, Long Tran-Thanh, and Roie Zivan

CONFERENCE ORGANIZING COMMITTEE

- › **Tutorial Chair** : International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2022
- › **Track Chair** : International Conference on Principles and Practice of Constraint Programming (CP) 2018 – 2019
- › **Publicity Chair** : International Conference on Logic Programming (ICLP) 2019
- › **Track Chair** : International Symposium on Mathematical Programming (ISMP) 2018
- › **Guest Editor** : Theory and Practice of Logic Programming (TPLP)

EDITORIAL BOARD

- › Proceedings on Privacy Enhancing Technologies (PoPETs) 2022

SENIOR PROGRAM COMMITTEE

- › AAAI Conference on Artificial Intelligence (AAAI) 2020 – 2022
- › International Joint Conference on Artificial Intelligence (IJCAI) 2021 – 2022
- › International Conference on Principles and Practice of Constraint Programming (CP) 2018, 2019, 2022

PROGRAM COMMITTEE

- › Neural Information Processing Systems (NeurIPS) 2020 – 2022
- › International Conference on Machine Learning (ICML) 2021 – 2022
- › International Conference on Learning Representations (ICLR) 2021 – 2022
- › Privacy Enhancing Technologies Symposium (PETS) 2021 – 2022
- › 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) 2018 – 2019
- › Italian Conference on Computational Logic (CILC) 2017 – 2019
- › Distributed Artificial Intelligence (DAI) 2019
- › European Conference on Artificial Intelligence (ECAI) 2016 – 2018
- › International Workshop on Optimization in Multi-Agent Systems (OptMAS) 2016 – 2017

> Italian Conference on Artificial Intelligence (AI*IA)	2017
JOURNAL REVIEWER	
> Transactions on Machine Learning Research (TMLR)	2022
> Journal of Artificial Intelligence Research (JAIR)	2016 – 2022
> Artificial Intelligence Journal (AIJ)	2016 – 2021
> Journal of Machine Learning Research (JMLR)	2021
> IEEE Transactions on Smart Grid	2019 – 2021
> IEEE Transactions on Power Systems	2020 – 2021
> IEEE Transactions on Dependable and Secure Computing	2020
> IEEE Transactions on Information Forensics & Security	2019 – 2020
> Gates Open Research	2020
> Patterns	2020
> Autonomous Agents and Multi-Agent Systems (JAAMAS)	2014 – 2017, 2019 – 2020
> Artificial Intelligence Review (AIR)	2016 – 2017
> Fundamenta Informaticae Journal	2016 – 2017
> AI Communications	2017
> Algorithms for Molecular Biology (AMB)	2014
DOCTORAL CONSORTIA MENTORING	
> AAAI Conference on Artificial Intelligence (AAAI)	2022
CONFERENCE/SYMPOSIUM/WORKSHOP REVIEWER	
> European Control Conference (ECC)	2021
> AAAI Conference on Artificial Intelligence (AAAI)	2014 – 2017
> International Conference on Autonomous Agents and Multiagent Systems (AAMAS)	2014 – 2016
> International Conference on Principles and Practice of Constraint Programming (CP)	2016 – 2017
> International Conference on Principles and Practice of Multi-Agent Systems (PRIMA)	2016
> International Joint Conference on Artificial Intelligence (IJCAI)	2015
> International Conference on Logic Programming (ICLP)	2015
> International Symposium on Combinatorial Search (SoCS)	2014
> International Workshop on Distributed Constraint Reasoning (DCR)	2014
> EURO-Par Parallel Processing (EUROPAR)	2014
> Principles and Practice of Declarative Programming (PPDP)	2014
PANEL REVIEWER	
> NSF, CISE Panel	2022
> Israel Science Foundation (IIS) (external reviewer)	2022
> Climate Change AI (CCAI) Grant	2022
> CUSE Grant, Syracuse University	2020 – 2021
> NSF, CISE RI (external reviewer)	2020
SCHOOL/DEPARTMENT SERVICE (AT SU)	
> Prepare and Grade Qualifier exam (Programming/Data Structure)	2022
> Academic Integrity panelist	2021 – 2022
> Remembrance Scholars Selection Committee	2022