Ferdinando Fioretto   Short CV

Department of Electrical Engineering & Computer Science
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PROFESSIONAL PREPARATION:

- University of Parma, Italy   Computer Science   B.S.E.   2009
- New Mexico State University, USA   Computer Science   M.S.   2011
- University of Udine, Italy   Computer Science   Ph.D.   2016
- New Mexico State University, USA   Computer Science   Ph.D.   2016
- University of Michigan, USA   Industrial & Operations Engineering   Postdoc   2016–2018
- Georgia Institute of Technology, USA   Industrial & System Engineering   Postdoc   2018–2019

APPOINTMENTS:

Assistant Professor   Jan. 2020
Dept. of Electrical Engineering and Computer Science, Syracuse University, Syracuse, NY

DIFFERENTIAL PRIVACY: THREE RELATED PRODUCTS:

1. Ferdinando Fioretto, Terrence W.K. Mak, and Pascal Van Hentenryck. "Differential Privacy for Power Grid Obfuscation". *IEEE Transactions on Smart Grid*, 11(2), pages 1356–1366, 2020.

2. Ferdinando Fioretto, Pascal Van Hentenryck. "OptStream: Releasing Time Series Privately". *Journal of Artificial Intelligence Research* (JAIR), 65 pages 423–456, 2019.

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

MACHINE LEARNING: THREE RELATED PRODUCTS:

1. Ferdinando Fioretto, Terrence W.K. Mak, and Pascal Van Hentenryck. "Predicting AC Optimal Power Flows: Combining Deep Learning and Lagrangian Dual Methods". In *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, (to appear), 2020.

2. Ferdinando Fioretto, Terrence W.K. Mak, Federico Baldo, Michele Lombardi, Pascal Van Hentenryck "A Lagrangian Dual Framework for Deep Neural Networks with Constraints". *CoRR abs/2001.09394*, 2020.

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

DISTRIBUTED OPTIMIZATION: THREE RELATED PRODUCTS:

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

2. Ferdinando Fioretto, Enrico Pontelli, and William Yeoh. "Distributed Constraint Optimization Problems and Applications: A Survey". *Journal of Artificial Intelligence Research* (JAIR), 61, pages 623–698, 2018.

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

Synergistic Activities:

- Awards:
  - Best AI Dissertation Award: Italian Artificial Intelligence Association, (AI*IA)   2017
  - Most Visionary Paper Award: International Conference on Autonomous Agents and Multiagent Systems (AAMAS)   2017
  - Best Student Paper Award: Computational Methods in Systems Biology (CMSB)   2013
  - 3 Years Ph.D. Scholarship Award: University of Udine   2013–2016
  - Outstanding Research Assistant Award: New Mexico State University   2013

- Symposium/Workshop/Track Co-Chair:
  - CP cluster, International Symposium of Mathematical Programming (ISMP)   2018
  - Multiagent and Parallel CP track, International Conference on Principles and Practice of Constraint Programming (CP)   2018, 2019
  - International Workshop on Optimization in Multi-Agent Systems (OptMAS) *at AAMAS*   2018, 2019
  - AAAI Workshop on Privacy Preserving Artificial Intelligence (PPAI) *at AAAI*   2020
  - International Workshop on Optimization and Learning in Multi-Agent Systems (OptLearnMAS) *at AAMAS*   2020

- Editorial Responsibilities:
  - Special Issue of Theory and Practice of Logic Programming (TPLP): Past and Present (and Future) of Parallel and Distributed Computation in (Constraint) Logic Programming   2018

- Senior/Regular Program Committee Member:
  - AAAI Conference on Artificial Intelligence (AAAI)   2018–2020
  - International Joint Conference on Artificial Intelligence (IJCAI)   2017–2020
  - European Conference on Artificial Intelligence (ECAI)   2016–2018
  - International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2017–2020
  - International Conference on Principles and Practice of Constraint Programming (CP) 2017–2020

List of Collaborators:

- **Post-doctoral Advisor** Pascal Van Hentenryck (Georgia Institute of Technology)
- **Ph.D. Advisors** Enrico Pontelli (New Mexico State University); Agostino Dovier (University of Udine)
- **Collaborators** Rina Dechter (University of California, Irvine), Christopher Kiekintveld (University of Texas, El Paso), Sven Koenig (University of Southern California), T. K. Satish Kumar (University of Southern California), Chansoo Lee (Google), Michele Lombardi (University of Bologna), Terrence W. K. Mak (Georgia Institute of Technology), Lesia Mitridati (Georgia Institute of Technology), Alessandro Dal Pal´u (University of Parma), Satish J. Ranade (New Mexico State University), Tran Cao Son (New Mexico State University) William Yeoh (Washington University in St. Louis), Makoto Yokoo (Kyushu University), Roie Zivan (Ben-Gurion University).