

Curriculum Vitae of Pascal Van Hentenryck

Contact

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Research

Van Hentenryck is interested in AI for Engineering with applications in power systems, supply chains, manufacturing, and health care.

Teaching

Van Hentenryck teaches undergraduate and graduate classes in optimization and AI. He has been designing and teaching the Seth Bonder camps for high-school students for the last 10 years, covering introduction to computing, data science, deep learning, and agentic AI.

I. Earned Degrees

1987: PhD in Computer Science, University of Namur (Belgium).
1985: “licence et maitrise” (Joint ScB/MSc) in Computer Science, University of Namur (Belgium).

II. Employment History

2024- : Director, [Tech-AI, The Artificial Intelligence Hub at the Georgia Institute of Technology](#).
2021- : Director, [NSF Artificial Intelligence Institute for Advances in Optimization](#).
2018- : A. Russell Chandler III Chair and Professor, Georgia Institute of Technology.
2019–2023 : Associate Chair of Innovation and Entrepreneurship, ISyE, Georgia Institute of Technology.
2015–2018 : Seth Bonder Collegiate Professor, University of Michigan, Ann Arbor.
– Professor, Industrial and Operations Engineering
– Professor, Electrical Engineering and Computer Science (EECS/CSE)
– Core Faculty, Michigan Institute of Data Science
2012–2015 : Optimization Research Group Leader, NICTA, Australia. On secondment from
– Strategic Chair in Data-Intensive Computing, Australia National University
– Professor of Computing and Information Systems, University of Melbourne
1990–2012 : Professor, Department of Computer Science, Brown University.
– Professor, 2000–2012
– Associate Professor, 1995–1999
– Assistant Professor, 1990–1995

1999–2000 : Professor, Department of Computer Science and Engineering, UCL
1985–1989 : Research Scientist at the European Computer-Industry Research Center, Munich.

III. Honors and Awards

A. International or National Awards

Smart 20 Awards for Chatham Connect: Chatham Area Transit Electric Vehicle Micro Transit Project (Savannah, GA), February 2025.

Douglas C. Montgomery Distinguished Lecture, University of Arizona, April 2025.

Ross B. Corotis Annual Lecture, Johns Hopkins University, November 2024.

VNN-COMP'23 Award for outstanding benchmark, December 2023.

2023 IISE OR Teaching Excellence Award: 2023 IISE Annual Conference, May 2023.

2022 Caspar Bowden PET Award for Outstanding Research in Privacy Enhancing Technologies: for the paper “Decision Making with Differential Privacy under the Fairness Lens”.

GovTech Innovation of the Month (March 2022) : for the work about MARTA Reach.

Outstanding Reviewer: IEEE Transactions on Power Systems (2022).

GovTech Innovation of the Month (February 2020) : for the work about Socially-Aware Mobility.

Outstanding Reviewer: IEEE Transactions on Power Systems (2019).

INFORMS Fellow (2016) :

Fellow of the Institute for Operations Research and Management Science, 2016. The citation reads “*For his scientific contributions to constraint programming, discrete optimization, global optimization, local search and stochastic optimization as well as his many contributions to the practice of operation research and the education of future practitioners.*”.

Test of Time Award (20 years) (2014) :

for the paper *CLP(Intervals) Revisited*. Awarded at the 2014 International Conference on Logic Programming, Vienna, Austria.

Senior Visiting Fellow (2014) :

Institute of Advanced Studies of the University of Bologna, June 2014.

IFORS Distinguished Lecturer (2013) :

Annual INFORMS Meeting, Minneapolis, Minneapolis, MN. October, 2013.

Ulam Fellow (2011–2012) :

Center of Nonlinear Studies, Los Alamos National Laboratories.

Doctorate Honoris Causa (2011) :

Doctorate Honoris Causa, University of Nantes, France. (First Computer Scientist to receive an honorary degree from the University of Nantes).

Fellow of AAAI (2009) :

Fellow of the Association for the Advancement of Artificial Intelligence. The citation reads: “*For significant contributions to constraint satisfaction and reasoning under uncertainty, the development of the widely used CHIP, Numerica, OPL, and Comet systems, and his pioneering role in the inception of constraint programming and its integration in operations research.*”

Doctorate Honoris Causa (2008) :

Doctorate Honoris Causa, Catholic University of Louvain, Belgium, October, 2008. (Other recipients included the Nobel Prize winner Albert Fert and Turing Award winner R. Rivest).

ACP Research Excellence Award (2006) :

2006 ACP Award for Research Excellence in Constraint Programming.

IBM Faculty Award (2004) :

IBM Faculty Award, 2004.

INFORMS ICS Prize (2002) :

2002 INFORMS Computing Society Prize for Research Excellence In The Interface Between Operations Research And Computer Science; The award citation includes: “*Professor Van Hentenryck has made fundamental contributions to the theory of constraint programming since the late 1980 [...]. He developed the groundbreaking constraint-programming system CHIP and later the Optimization Programming Language (OPL), which combines constraint-programming and mathematical-programming techniques. OPL has enabled a strong synergy between mathematical programming and constraint programming, and importantly, has made the tools of constraint programming accessible to operations researchers.*”.

NSF National Young Investigator Award :

NSF National Young Investigator Award, 1993.

B. Institute or School Awards

Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll

Georgia Institute Of Technology, June 2023.

Outstanding Achievement in Research Engagement and Outreach

2023 Institute Research Award, Georgia Institute Of Technology, March 2023.

Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll

Georgia Institute Of Technology, January 2023.

Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll

Georgia Institute Of Technology, February 2022.

Teaching Excellence Award for Online Teaching

Georgia Institute of Technology, 2021.

Student Recognition of Excellence in Teaching: Class of 1934 Award,

Georgia Institute of Technology, 2021.

Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll

Georgia Institute Of Technology, February 2021.

Merit Award (2018)

Industrial and Operations Engineering, The University of Michigan, 2018.

2015 Richard Newton Research Excellence Award

for the research on *Evacuation Planning*, With Manuel Cebrian, Caroline Even, and Victor Pillac.

Philip J. Bray Award (2010–2011)

Philip J. Bray Award for Teaching Excellence in the Physical Sciences at Brown University for 2010 and 2011. (the highest award given for teaching excellence in all physical sciences at Brown University)

C. Best Paper Awards

2025 John H. Moe Award for Best Basic/Translational Science Research Poster for “Collagen X Biomarker (Cxm) is Predictive of Growth Cessation in Idiopathic Scoliosis”, Michelle C. Welborn; Asal Roudbari B.S.; Reza Zandehshahvar; Pascal Van Hentenryck; James O. Sanders; Amer F. Samdani; Joseph Stone; Robert Hyun Cho; Selina Poon; Vishwas R. Talwalkar; Michal Szczodry; Purnendo Gupta; Susan Sienko.

14th DACH+ Conference on Energy Informatics, Aachen, Germany, September 2025. Electricity-Aware Bid Format for Coordinated Heat and Electricity Market Clearing. By Lesia Mitridati, Jalal Kazempour, and Pascal Van Hentenryck.

Honorable Mention, MSOM Practice-Based Research Competition for *Contextual Stochastic Optimization for Omnichannel Multi-Courier Order Fulfillment Under Delivery Time Uncertainty* by Tinghan Ye, Sikai Cheng, Amira Hijazi and Pascal Van Hentenryck. June 2025.

IISE Energy Systems Division: Best Paper Award (2025) for “Dual Conic Proxy for Semidefinite Relaxation of AC Optimal Power Flows”. Guanchen Qiu, Mathieu Tanneau, and Pascal Van Hentenryck.

Featured Paper in the INFORMS Journal on Computing, May-June 2022, for the paper **Benders Subproblem Decomposition for Bilevel Problems with Convex Follower**.

2022 Best Paper Award, IEEE Transactions of Power Systems, for the paper: *Differentially private optimal power flow for distribution grids*. V. Dvorkin, Jr., F. Fioretto, P. Van Hentenryck, P. Pinson, and J. Kazempour. IEEE Transactions on Power Systems, 35(2), 1627–1637, May 2021.

TBS Outstanding Paper Award 2020 for the paper: *Prediction and Behavioral Analysis of Travel Mode Choice: A Comparison of Machine Learning and Logit Models*. Xilei Zhao, Xiang Yan, Alan Yu, Pascal Van Hentenryck. *Travel Behaviour and Society*, Volume 20, Pages 22-35, July 2020.

2021 Best Paper Award, IEEE Transactions of Power Systems, for the paper: *Privacy-Preserving Power System Obfuscation: A Bilevel Optimization Approach*. Terrence Mak, Ferdinando Fioretto, Lyndon Shi, and Pascal Van Hentenryck. IEEE Transactions on Power Systems, 35(2), 1627–1637, March 2020.

Journal track of the 29th International Joint Conference on Artificial Intelligence (IJCAI 2020) for the paper “OptStream: Releasing Time Series Privately”.

Distinguished Student Paper Award at CP'19 :

for the paper *The Flexible and Real-Time Commute Trip Sharing Problems* with Mohd Hafiz Hasan, September 2019, Stamford, CT.

Best Paper Award at CP'16 :

for the paper *Graphical Models for Optimal Power Flow* with K. Dvijotham, M. Chertkov, M. Vuffray, and S. Misra. September 2016, Toulouse, France.

Fast-Track Paper (Constraints) from CPAIOR'16 :

A Branch-and-Price-and-Check Model for the Vehicle Routing Problem with Location Resource constraints. Edward Lam and Pascal Van Hentenryck.

Best Paper Award at AAAI'15 :

for the paper *Emerging Architectures for Global System Science*, M. Milano and P. Van Hentenryck in the “Blue Sky Research” track, Austin, Texas.

Fast-Track Paper (Constraints) from CPAIOR'15 :

A Column-Generation Approach for Joint Mobilization and Evacuation Planning. V. Pillac, M. Cebrian and Pascal Van Hentenryck.

Best Paper Award at SEDE'2009 :

SEDE'09: Optimizing Network Deployment of Formally-Specified Distributed Systems. C. Coffrin, L. Michel, A. Shvartsman, E. Sonderegger, P. Van Hentenryck.

Best Paper Award at IJCAI'2007 :

IJCAI'07: Performance Analysis of Online Anticipatory Algorithms for Large Multistage Stochastic Program: L. Mercier and P. Van Hentenryck (one of 3 such papers out of 1353 submissions).

Distinguished Paper at CP'04 :

CP'2004: Constraint-based Combinator for Local Search: P. Van Hentenryck, L. Michel, and L. Liu.

Distinguished Paper at ASE'04 :

ASE'2004: Parameterized Interfaces for Open System Verification of Product Lines: C. Blundell, K. Fisler, S. Krishnamurthi, and P. Van Hentenryck.

Best Paper Award at CP'03 :

CP'2003: Control Abstractions for Local Search: P. Van Hentenryck and L. Michel.

IV. Research, Scholarship, and Creative Activities

A. Published Books, Book Chapters, and Edited Volumes

A1. Books

- [9] Ferdinando Fioretto and Pascal Van Hentenryck. *Differential Privacy in Artificial Intelligence: From Theory to Practice*, Boston-Delft: now publishers, (2025), <http://dx.doi.org/10.1561/9781638284772>.
- [8] P. Van Hentenryck and L. Michel. *Constraint-Based Local Search*. The MIT Press, Cambridge, MA, 2009. (Paperback version of [4]).
- [7] P. Van Hentenryck and R. Bent. *Online Stochastic Combinatorial Optimization*. MIT Press, 2009. (Paperback version of [5]).
- [6] P. Van Hentenryck and R. Bent. *Online Stochastic Combinatorial Optimization*. Prentice Hall/India, 2007. (Reprint of [5]).
- [5] P. Van Hentenryck and R. Bent. *Online Stochastic Combinatorial Optimization*. The MIT Press, Cambridge, MA, 2006.
- [4] P. Van Hentenryck and L. Michel. *Constraint-Based Local Search*. The MIT Press, Cambridge, MA, 2005.
- [3] P. Van Hentenryck. *The OPL Optimization Programming Language*. The MIT Press, Cambridge, MA, 1999.
- [2] P. Van Hentenryck, L. Michel, and Y. Deville. *Numerica: A Modeling Language for Global Optimization*. The MIT Press, Cambridge, MA, 1997.
- [1] P. Van Hentenryck. *Constraint Satisfaction in Logic Programming*. The MIT Press, Cambridge, MA, 1989.

A2. Referred or Invited Book Chapters

- [19] Laurent Michel and Pascal Van Hentenryck. Constraint-Based Local Search. Handbook of Heuristics. Springer Verlag, 2025.
- [18] Pascal Van Hentenryck. Trustworthy Optimization Learning: A Brief Overview. Mathematical Optimization for Machine Learning: Proceedings of the MATH+ Thematic Einstein Semester 2023, edited by Konstantin Fackeldey, Aswin Kannan, Sebastian Pokutta, Kartikey Sharma, Daniel Walter, Andrea Walther and Martin Weiser, Berlin, Boston: De Gruyter, 2025, pp. 121-136. <https://doi.org/10.1515/9783111376776-009>
- [17] Pascal Van Hentenryck and Willem van Hoeve. Constraint Programming. Encyclopedia of Optimization, Springer, 2023.
- [16] Pascal Van Hentenryck. Machine Learning for Optimal Power Flows. INFORMS Tutorials in Operations Research, 62-82, 2021.
- [15] Michael Chertkov, Sidhant Misra, Marc Vuffray, Dvijotham Krishnamurthy, and Pascal Van Hentenryck. Graphical Models and Belief Propagation-hierarchy for Optimal Physics-Constrained Network Flows. Springer Verlag, IMA Volume on the Control of Energy Markets and Grids.

- [14] Laurent Michel and Pascal Van Hentenryck. Constraint-Based Local Search. Handbook of Heuristics. Springer Verlag, 2018.
- [13] L. Michel and P. Van Hentenryck. Basic Constraint Programming Theory: Search. Wiley Encyclopedia of Operations Research and Management Science. 2011.
- [12] P. Van Hentenryck. Constraint Languages for Combinatorial Optimizations. In *Operations Research and Technology: Tutorials from INFORMS 2004*, Kluwer Academic Publishers, 2004.
- [11] P. Van Hentenryck, L. Michel, F. Paulin, and J.F. Puget. The OPL Studio Modeling System. In *Modeling Languages in Mathematical Optimization*, Kluwer Academic Publishers, 2003.
- [10] P. Van Hentenryck and L. Michel. The Modeling Language OPL: A Short Overview. In *Optimization Software Class Libraries*, Kluwer Academic Publishers, 2002.
- [9] P. Van Hentenryck and L. Michel. OPL Script: Composing and Controlling Models In *New Trends in Constraints*, Lecture Notes in Artificial Intelligence (LNAI 1865), Springer Verlag, 2000.
- [8] P. Van Hentenryck. Constraint Programming. In *Encyclopedia of Science and Technology*, Marcel Dekker, 1997.
- [7] P. Van Hentenryck, V. Saraswat, and Y. Deville. The Design, Implementation, and Evaluation of the Constraint Language cc(FD). In *Constraint Programming: Basics and Trends*, Springer Verlag, 1995.
- [6] P. Van Hentenryck. Scheduling and Packing in the Constraint Language cc(FD). In *Intelligent Scheduling*, Morgan Kaufman, 1994.
- [5] J.L. Imbert and P. Van Hentenryck. Efficient Handling of Disequations in CLP Over Linear Rational Arithmetics. In *Constraint Logic Programming: Selected Research*, MIT Press, 1993.
- [4] P. Van Hentenryck and Y. Deville. The Cardinality Operator: A new Logical Connective and its Application to Constraint Logic Programming, In *Constraint Logic Programming: Selected Research*, MIT Press, 1993.
- [3] P. Van Hentenryck. Constraint Logic Programming. In *Encyclopedia of Artificial Intelligence (Second Edition)*, Wiley, 1992.
- [2] Y. Deville and P. Van Hentenryck. Construction of CLP Programs In *Logic Programming: New Frontiers*, Kluwer Academic Publishers, 1992.
- [1] M. Dincbas, H. Simonis, and P. Van Hentenryck. Extending Equation Solving and Constraint Handling in Logic Programming. In *Resolution of Equations in Algebraic Structures*, Academic Press, 1989.

A3. Edited Books

- [6] M. Milano and P. Van Hentenryck, editors. *Hybrid Optimization*, Springer Optimization and its applications. Volume 45, 2010, DOI: 10.1007/978-1-4419-1644-0.
- [5] P. Van Hentenryck and L. Wolsey, editors. *Proceedings of the Fourth International Conference on the Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CP-AI-OR'07)*, Lecture Notes in Computer Science (LNCS-4510), Springer Verlag, 2007.
- [4] P. Van Hentenryck, editor. *Proceedings of the 8th International Symposium on Practical Aspects of Declarative Languages*, Lecture Notes in Computer Science (LNCS-3819), Springer Verlag, 2006.
- [3] P. Van Hentenryck, editor. *Static Analysis, Proceedings of the 1997 International Symposium on Static Analysis*. Lecture Note in Computer Science, Springer Verlag, 1997
- [2] V. Saraswat and P. Van Hentenryck, editors. *Principles and Practice of Constraint Programming*. The MIT Press, Cambridge, MA, 1995.
- [1] P. Van Hentenryck, editor. *Logic Programming, Proceedings of the Eleventh International Conference on Logic Programming*. Logic Programming Series. The MIT Press, Cambridge, MA, 1994.

B. Refereed Publications and Submitted Articles

B1. Published and Accepted Journal Articles

- [182*] Mingjian Tuo, Xingpeng Li, and Pascal Van Hentenryck. Machine Learning-assisted Dynamics-Constrained Day-Ahead Energy Scheduling. *Electric Power Systems Research*, to appear, 2025.
- [181*] Lucas Kletzander, Tommaso Mazzoli, Nysret Musliu, and Pascal Van Hentenryck. Integrating Column Generation and Large Neighborhood Search for Bus Driver Scheduling with Complex Break Constraints. *Journal of Artificial Intelligence Research*, to appear, 2025.
- [180*] **Hongzhao Guan**, Beste Basciftci, and Pascal Van Hentenryck. Bilevel Optimization and Heuristics for Transit Network Design with Latent Demand. *Transportation Science*, to appear (minor revisions), 2025.
- [179*] **Jorge Huertas**, and Pascal Van Hentenryck. Parallel Batch Scheduling With Incompatible Job Families Via Constraint Programming. *IEEE Transactions on Semiconductor Manufacturing*, to appear, 2025.
- [178*] **Jorge Huertas**, and Pascal Van Hentenryck. A Constraint Programming Model For Serial Batch Scheduling With Minimum Batch Size. *Operations Research Perspectives*, to appear, 2025.
- [177*] **Tinghan Ye**, **Amira Hijazi**, and Pascal Van Hentenryck. Contextual Stochastic Optimization for Omnichannel Multi-Courier Order Fulfillment Under Delivery Time Uncertainty. *INFORMS MSOM (Manufacturing & Service Operations Management)*, to appear, 2025.

- [176*] **Andrew Rosenberg**, Francois Pacaud, Joaquim Dias Garcia, Robert B. Parker, Kaarthik Sundar, Russell Bent, and Pascal Van Hentenryck. Strategic Bidding in Energy Markets with Gradient-Based Iterative Methods. Sustainable Energy, Grids and Networks, July 2025 (Online).
- [175*] **Jiawei Lu, Tinghan Ye, Wenbo Chen**, Pascal Van Hentenryck. Boosting Column Generation with Graph Neural Networks for Joint Rider Trip Planning and Crew Shift Scheduling. Transportation Research Part E, (to appear), 2025.
- [174*] **Ritesh Ojha, Wenbo Chen, Hanyu Zhang, Reem Khir**, Alan Erera, Pascal Van Hentenryck. Outbound Load Planning in Parcel Delivery Service Networks using Machine Learning and Optimization. Transportation Science, (to appear), 2025.
- [173*] Lesia Mitridati, Jalal Kazempour, and Pascal Van Hentenryck. Electricity-Aware Bid Format for Coordinated Heat and Electricity Market Clearing. ACM SIGENERGY Energy Informatics Review, Volume 5, Issue 3, September 2025.
- [172*] **Hanyu Zhang**, Reza Zandehshahvar, Mathieu Tanneau, and Pascal Van Hentenryck. Weather-Informed Probabilistic Forecasting and Scenario Generation in Power Systems. Applied Energy, Volume 384, April 15, 2025.
- [171*] **Seonho Park** and Pascal Van Hentenryck. Self-Supervised Learning for Large-Scale Preventive Security Constrained DC Optimal Power Flow. IEEE Transactions on Power Systems, 40(3), 2205-2216, May 2025.
- [170] Pascal Van Hentenryck. Constraint Programming. Revue Ouverte d’Intelligence Artificielle, 5(2–3), 139–159, 2024.
- [169*] **Guancheng Qiu**, Mathieu Tanneau, and Pascal Van Hentenryck. Dual conic proxies for AC optimal power flow. Electric Power Systems Research 236, 110661, November 2024.
- [168*] **H. Zhang**, M. Tanneau, C. Huang, V.R. Joseph, S. Wang, P. Van Hentenryck. Asset bundling for hierarchical forecasting of wind power generation. Electric Power Systems Research 235, 110771, October 2024.
- [167*] **M. Klamkin**, M. Tanneau, T. Mak, P. Van Hentenryck. Bucketized Active Sampling for learning ACOPF. Electric Power Systems Research 235, 110697, October 2024.
- [166*] K. Wu, M. Tanneau, P. Van Hentenryck. Strong mixed-integer formulations for transmission expansion planning with FACTS devices. Electric Power Systems Research 235, 110695, October 2024.
- [165*] A. Rosenberg, M. Tanneau, B. Fanzeres, J. Garcia, P. Van Hentenryck. Learning Optimal Power Flow value functions with input-convex neural networks. Electric Power Systems Research 235, 110643, October 2024.
- [164*] W. Chen, M. Tanneau, P. Van Hentenryck. Real-time risk analysis with optimization proxies. Electric Power Systems Research 235, 110822, October 2024,
- [163*] **Chungjae Lee**, Kevin Dalmeijer, and Pascal Van Hentenryck. Optimizing Autonomous Transfer Hub Networks: Quantifying the Potential Impact of Self-Driving Trucks. EURO Journal on Transportation and Logistics (to appear).

- [162*] **Tejas Santanam, Anthony Trasatti**, Pascal Van Hentenryck, and **Hanyu Zhang**. Public Transit for Special Events: Ridership Prediction and Train Scheduling. *IEEE Transactions on Intelligent Transportation Systems*. (to appear).
- [161*] **Hongzhao Guan**, Beste Basciftci, and Pascal Van Hentenryck. Path-Based Formulations for the Design of On-demand Multimodal Transit Systems with Adoption Awareness. *INFORMS Journal on Computing* (to appear).
- [160] Byron Tasseff, Russell Bent, Carleton Coffrin, Clayton Barrows, Devon Sigler, Jonathan Stickel, Ahmed S. Zamzam, Yang Liu, and Pascal Van Hentenryck. [Polyhedral Relaxations for Optimal Pump Scheduling of Potable Water Distribution Networks](#). *INFORMS Journal on Computing*, 36(4), 2024.
- [159] Uijeong Hwang, Ilsu Kim, Subhrajit Guhathakurta, and Pascal Van Hentenryck. [Comparing Different Methods for Connecting Bike Lanes to Generate a Complete Bike Network and Identify Potential Complete Streets in Atlanta](#). *Journal of Cycling and Micromobility Research*, 2, December 2024.
- [158*] **Jason Lu, Anthony Trasatti, Hongzhao Guan, Kevin Dalmeijer**, and Pascal Van Hentenryck. The Impact of Dedicated Lanes on On-Demand Multimodal Transit Systems. *Travel Behaviour and Society*, 36, July 2024.
- [157*] Daniel D. Slate, Alexandre Parisot, Liang Min, Patrick Panciatici and Pascal Van Hentenryck, Adoption of Artificial Intelligence by Electric Utilities, *Energy Law Journal*, 45(1), 2024.
- [156*] Uijeong Hwang, Seung Jae Lieu, Hongzhao Guan, Kevin Dalmeijer, Pascal van Hentenryck, Subhrajit Guhathakurta. Measuring Transit Equity of an On-Demand Multimodal Transit System. *Journal of the American Planning Association*, 1-16, April 2024
- [155*] **Wenbo Chen, Mathieu Tanneau**, and Pascal Van Hentenryck. [End-to-End Feasible Optimization Proxies for Large-Scale Economic Dispatch](#). *IEEE Transactions on Power Systems*, 39(2), 4723-4734, March 2024.
- [154*] **Seonho Park, Wenbo Chen, Terrence Mak**, and Pascal Van Hentenryck. [Compact Optimization Learning for AC Optimal Power Flow](#). *IEEE Transactions on Power Systems*, 39(2), 4350-4359, March 2024.
- [153*] **Seonho Park, Wenbo Chen, Dahye Han, Mathieu Tanneau**, and Pascal Van Hentenryck. [Confidence-Aware Graph Neural Networks for Learning Reliability Assessment Commitments](#). *IEEE Transactions on Power Systems*, 39(2), 3839-3850, March 2024.
- [152] Pascal Van Hentenryck. Fusing AI and Optimization: Thrustworthy Optimization Proxies. *SIAM News*, March, 2024.
- [151] Pascal Van Hentenryck and Kevin Dalmeijer. [AI4OPT: AI Institute for Advances in Optimization](#). *AI Magazine*, 1-6, February, 2024. doi = {https://doi.org/10.1002/aaai.12146}.

- [150*] **Terrence Mak, Minas Chatzos, Mathieu Tanneau**, and Pascal Van Hentenryck. Learning Regionally Decentralized AC Optimal Power Flows With ADMM. *IEEE Transactions on Power Systems*, 14(6), 4863-4876. November 2023.
- [149] Nabeel Gillani, Doug Beeferman, Christine Vega-Pourheydarian, Cassandra Overney, Pascal Van Hentenryck, Deb Roy. [Redrawing attendance boundaries to promote racial and ethnic diversity in elementary schools](#). Educational Researcher, March 2023.
- [148*] **Beste Basciftci** and Pascal Van Hentenryck. Capturing Travel Mode Adoption in Designing On-demand Multimodal Transit Systems. *Transportation Science*, 57(2):351-375, December 2022.
- [147*] **Wenbo Chen, Mathieu Tanneau**, and Pascal Van Hentenryck. Learning Optimization Proxies for Large-Scale Security-Constrained Economic Dispatch. *Electric Power Systems Research*, Volume 212, December 2022.
- [146*] **Jisoon Lim**, Kevin Dalmeijer, Subhrajit Guhathakurta, and Pascal Van Hentenryck. The Bicycle Network Improvement Problem. *Journal of Transportation Engineering, Part A: Systems*, 148(11), November 2022.
- [145*] **Enpeng Yuan, Wenbo Chen**, and Pascal Van Hentenryck. Reinforcement Learning from Optimization Proxy for Ride-Hailing Vehicle Relocation. *Journal of Artificial Intelligence Research (JAIR)*, 75, 985-1002, November, 2022.
- [144*] **Haoruo Zhao, Mathieu Tanneau**, and Pascal Van Hentenryck. A Linear Outer Approximation of Line Losses for DC-based Optimal Power Flow Problems. *Electric Power Systems Research*, Volume 213, November 2022.
- [143*] **Minas Chatzos, Mathieu Tanneau**, and Pascal Van Hentenryck. Data-Driven Time Series Reconstruction for Modern Power Systems Research. *Electric Power Systems Research*, Volume 212, November 2022, 108589.
- [142*] **Minas Chatzos, Terrence Mak**, and Pascal Van Hentenryck. Spatial Network Decomposition for Fast and Scalable AC-OPF Learning. *IEEE Transactions on Power Systems*, 37(4), 2601–2612, July 2022.
- [141] Shixiang Zhu, Ruyi Ding, Minghe Zhang, Pascal Van Hentenryck, and Yao Xie. Spatio-Temporal Point Processes with Attention for Traffic Congestion Event Modeling. *IEEE Transactions on Intelligent Transportation Systems*, 23(7), 7298–7309, July 2022.
- [140*] **Ramon Auad** and Pascal Van Hentenryck. Ridesharing and Fleet Sizing For On-Demand Multimodal Transit Systems. *Transportation Research Part C*, 138, May 2022.
- [139*] **Geunyeong Byeon** and Pascal Van Hentenryck. Benders Subproblem Decomposition for Bilevel Problems with Convex Follower. *INFORMS Journal on Computing*, Volume 4, Issue 3, Pages 1305-1840, May-June 2022.
- [138*] Xinyu Liu, Pascal Van Hentenryck, and Xilei Zhao. Optimization Models for Estimating Transit Network Origin-Destination Flows with Big Transit Data. *Journal of Big Data Analytics in Transportation*, 3, 247–262, 2021.

- [137*] **Franco Berbeglia**, Gerardo Berbeglia, and Pascal Van Hentenryck. Market Segmentation in Online Platforms. *European Journal Of Operational Research*, Volume 295, Issue 3, 16 December 2021, Pages 1025-1041.
- [136*] **Ramon Auad** and **Kevin Dalmeijer** and **Connor Riley** and **Tejas Santanam** and **Anthony Trasatti** and Pascal Van Hentenryck and **Hanyu Zhang**. Resiliency of On-Demand Multimodal Transit Systems During a Pandemic. *Transportation Research Part C*, Volume 133, December 2021, 103418.
- [135] Pascal Van Hentenryck. Finding the Sweet Spot Amid Accuracy and Performance. *Communications of the ACM*, November, 64(11), 120-120, 2021.
- [134*] **Xiang Yan**, **Xilei Zhao**, **Yuan Han**, Pascal Van Hentenryck, Tawanna Dillahun, Mobility-on-Demand Versus Fixed-Route Transit Systems: An Evaluation of Traveler Preferences in Low-Income Communities. *Transportation Research Part A*, 148, 481-495, 2021.
- [133*] **Alexandre Velloso** and Pascal Van Hentenryck. Combining Deep Learning and Optimization for Preventive Security-Constrained DC Optimal PowerFlow. *IEEE Transactions on Power Systems*, 36(4), July 2021.
- [132*] **Ferdinando Fioretto**, Pascal Van Hentenryck, and **Keyu Zhu** Differential Privacy of Hierarchical Census Data: An Optimization Approach. *Artificial Intelligence*, 296, July 2021.
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- [267] **Sikai Cheng**, Amira Hijazi, Jeren Konak, Alan Erera, and Pascal Van Hentenryck. SPOT: Spatio-temporal Pattern Mining and Optimization for Load Consolidation in Freight Transportation Networks. IEEE International Conference on Data Mining (ICDM-2025), Washington DC, USA. November 12-15, 2025. (11% Acceptance Rate).
- [266] **Tinghan Ye**, Amira Hijazi and Pascal Van Hentenryck. Conformal Predictive Distributions for Order Fulfillment Time Forecasting. Joint International Conference on Computational Logistics. September 8-10, 2025, Delft University, The Netherlands.
- [265] Vladimir Dvorkin, Ferdinando Fioretto, Pascal Van Hentenryck, Pierre Pinson, and Jalal Kazempour. Privacy-Preserving Convex Optimization: When Differential Privacy Meets Stochastic Programming. 64th IEEE Conference on Decision and Control, Rio de Janeiro, Brazil, December 10-12 December.
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- [20] B. Le Charlier and P. Van Hentenryck. Experimental Evaluation of a Generic Abstract Interpretation Algorithm for Prolog. In *Fourth IEEE International Conference on Computer Languages (ICCL'92)*, San Francisco, CA, April 1992.
- [19] Y. Deville and P. Van Hentenryck. An Efficient Arc Consistency Algorithm for a Class of CSP Problems. *International Joint Conference on Artificial Intelligence (IJCAI-91)*, Sydney, Australia, August 1991.
- [18] P. Van Hentenryck and Y. Deville. Operational Semantics of Constraint Logic Programming over Finite Domains. *Third International Symposium on Programming Language Implementation and Logic Programming (PLILP-91)*, Passau, Germany, August 1991.
- [17] P. Van Hentenryck and Y. Deville. The Cardinality Operator: A New Logical Connective and its Application to Constraint Logic Programming. In *Eighth International Conference on Logic Programming (ICLP-91)*
- [16] B. Le Charlier, K. Musumbu, and P. Van Hentenryck. A Generic Abstract Interpretation Algorithm and its Complexity Analysis. In *Eighth International Conference on Logic Programming (ICLP-91)*
- [15] P. Van Hentenryck. The CLP Language CHIP: Constraint Solving and Applications. In *COMPCON-91*, San Francisco, CA, February 1991. (Invited Paper).
- [14] P. Van Hentenryck. Incremental Constraint Satisfaction in Logic Programming. In *Seventh International Conference on Logic Programming (ICLP-90)*, Jerusalem, Israel, June 1990.
- [13] P. Van Hentenryck and T. Graf. Standard Forms for Rational Linear Arithmetics in Constraint Logic Programming. *International Symposium on Artificial Intelligence and Mathematics*, Fort Lauderdale, Florida, January 1990.
- [12] T. Graf, P. Van Hentenryck, C. Pradelles, and L. Zimmer. Simulation of Hybrid Circuits in Constraint Logic Programming. *International Joint Conference on Artificial Intelligence (IJCAI-89)*, Detroit, Michigan, August 1989.
- [11] P. Van Hentenryck. Parallel Constraint Satisfaction in Logic Programming: Preliminary Results of CHIP within PEPsSys. *Sixth International Conference on Logic Programming (ICLP-89)*, Lisbon, Portugal, June 1989.
- [10] M. Dincbas, P. Van Hentenryck, H. Simonis, A. Aggoun, T. Graf, and F. Berthier. The Constraint Logic Programming Language CHIP. *Proceedings of the International Conference on Fifth Generation Computer Systems (FGCS-88)*, Tokyo, Japan, December 1988.
- [9] P. Van Hentenryck and J-P. Carillon. Generality versus Specificity: an Experience with AI and OR Techniques. *American Association for Artificial Intelligence (AAAI-88)*, St. Paul, Minnesota, August 1988.

- [8] M. Dincbas, H. Simonis, and P. Van Hentenryck. Solving a Cutting-Stock Problem in Constraint Logic Programming. *Fifth International Conference on Logic Programming (ICLP-88)*, Seattle, Washington, August 1988.
- [7] M. Dincbas, H. Simonis, and P. Van Hentenryck. Solving the Car Sequencing Problem in Constraint Logic Programming. *European Conference on Artificial Intelligence (ECAI-88)*, Munich, R.F.A, August 1988.
- [6] M. Dincbas, H. Simonis, and P. Van Hentenryck. Solving Large Scheduling Problems in Logic Programming. *EURO-TIMS Joint International Conference on Operations Research and Management Science*, Paris, France, July 1988. (Invited Paper).
- [5] M. Dincbas, P. Van Hentenryck, H. Simonis, A. Aggoun, and T. Graf. Applications of CHIP to Industrial and Engineering Problems. *First International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems*, Tullahoma, Tennessee, June 1988.
- [4] P. Van Hentenryck. A Framework for Consistency Techniques in Logic Programming. *International Joint Conference on Artificial Intelligence (IJCAI-87)*, Milan, Italy, August 1987.
- [3] P. Van Hentenryck and M. Dincbas. Forward Checking in Logic Programming. *Fourth International Conference on Logic Programming (ICLP-87)*, pages 229–256, Melbourne, Australia, May 1987.
- [2] M. Dincbas, H. Simonis, and P. Van Hentenryck. Extending Equation Solving and Constraint Handling in Logic Programming. *Colloquium on Resolution of Equations in Algebraic Structures (CREAS)*, MCC, Austin, Texas, May 1987.(Invited Paper).
- [1] P. Van Hentenryck and M. Dincbas. Domains in Logic Programming. *AAAI-86*, Philadelphia, Pennsylvania, August 1986.

B3. Workshop Presentation with Proceedings (Refereed)

- [4*] **Andrew W. Rosemberg, Michael Klamkin**, and Pascal Van Hentenryck. Differentiable Optimization for Deep Learning-Enhanced DC Approximation of AC Optimal Power Flow. NeurIPS 2025 Workshop MLxOR: Mathematical Foundations and Operational Integration of Machine Learning for Uncertainty-Aware Decision-Making, San Diego, December 2025.
- [3*] *Andrew W. Rosemberg*, Alexandre Street, Davi Michel Valladao, Pascal Van Hentenryck. Training Deep-Parametric Policies Using Lagrangian Duality. NeurIPS 2025 Workshop MLxOR: Mathematical Foundations and Operational Integration of Machine Learning for Uncertainty-Aware Decision-Making, San Diego, December 2025.
- [2*] **Tinghan Ye, Shuaicheng Tong, Changkun Guan**, Beste Basciftci, Pascal Van Hentenryck. Deep Learning-Driven Contextual Stochastic Optimization for Real-Time Order Fulfillment. NeurIPS 2025 Workshop MLxOR: Mathematical Foundations and Operational Integration of Machine Learning for Uncertainty-Aware Decision-Making, San Diego, December 2025.
- [1*] **Hanyu Zhang, Mathieu Tanneau**, Chaofan Huang, V. Roshan Joseph, Shangkun Wang, Pascal Van Hentenryck. Asset Bundling for Wind Power Forecasting. Tackling Climate Change with Machine Learning workshop, NeurIPS 2023, December 2023.

C. Other Publications and Creative Products

- [1] Senate Office of Policy and Legislative Analysis. Final Report Of The Senate Study Committee On Artificial Intelligence (SR 476) [URL](#), December 2024.
- [2] Charles Pierre, Pascal Van Hentenryck, Kevin Dalmeijer, and Tuba Ketenci. [The Longitudinal Education Programs of AI4OPT](#). OR/MS, August 3rd, 2022.

C1. Non-refereed Conference Presentations with Proceedings

C2. Software

CHIP: Designer/Implementor of the kernel and the finite domain constraint solver of CHIP. CHIP (developed at ECRC) is commercialized by COSYTEC and is now widely used in industry. CHIP (and in particular its finite domain subset) led to the development of many other products (not necessarily based on logic programming) including the ILOG solver (ILOG), CHARME (Bull), DECISION POWER (ICL) which are all commercial products. The finite domain solver is also integrated in many other academic systems such as CLP(FD) (INRIA), SCREAMER (MIT/U.Penn), LAURE (Bellcore), AKL(FD) (SICS, Sweden), OZ (Saarbrueken, Germany) to name a few. CHIP has been in commercial use for more than 30 years.

OPL: Designer/Implementor of the OPL system, a modeling language for constraint and mathematical programming. OPL is the first modeling language for constraint programming and the first modeling language to combine constraint and mathematical programming. OPL is now an IBM product and has been a commercial product for more than 20 years.

CHIP/PEPSY: Designer/Implementor of the or-parallel version of CHIP (finite domain part) inside the Pepsy system. This was the first parallel implementation of a constraint logic programming language.

NUMERICA: Designer/Implementor of the modeling language HELIOS (together with L. Michel). Helios is a mathematical language for stating and solving global optimization problems. It features a language very close to statements in scientific publications and is compiled into NEWTON. Numerica was commercialized by Ilog and integrated in Ilog Solver.

COMET: Designer/implementor of the Comet system (with L. Michel), an object-oriented language supporting constraint-based local search, constraint programming, and mathematical programming. Comet has been licensed to Dynamic Decision Technologies in 2007. In 2010 alone, there were more than 1,000 academic downloads of Comet for educational and research purposes. Comet is, or has been used, for educational purposes on at least three continents, including at the University of Bogota (Columbia), the university of Hanoi (Vietnam), the University of Seville (Spain), The University of Montreal (Canada), the University of Milan (Italy), the University of Louvain (Operations Research, Belgium), University of Liege (Belgium), University of Brussels (Belgium), the Antwerp Maritime School Academy (Belgium), and Universiteit Antwerpen (Institute of Transport and Maritime Management Antwerp) (Belgium).

NEWTON: Designer/Implementor of the constraint language NEWTON. Newton includes a constraint solver over nonlinear real constraints and outperforms interval methods and is competitive with continuation methods on all the benchmarks we have. NEWTON has been licenced to Ilog for inclusion in ILOG SOLVER.

CC(FD): Designer/Implementor of the constraint language CC(FD). Distributed to Hewlett-Packard. The CC(FD) operators, and the concept of reified constraints, were integrated immediately in commercial products (e.g. CHIP and ILOG) and are now standard constraint-programming concepts.

MINI-CP: Designer of the open-source constraint programming system MINI-CP (with L. Michel and P. Schaus), MINI-CP is dedicated to the teaching of constraint programming.

OBJECTIVE-CP: Designer/Implementor of the optimization systems OBJECTIVE-CP (with L. Michel), which pioneered a micro-kernel architecture, fully transparent parallelism (including of user-defined search procedures, and multiple model concretizations).

GAIA: Designer of the generic abstract interpretation algorithm GAIA. Designer of a variety of abstract domains, including PATTERN, PROP, TYPES, and their various combinations. GAIA is available by anonymous ftp from Brown University and is used at seventy seven (77) sites in North-America, Asia, and Europe. It is often used as the comparison reference for implementation papers on abstract interpretation of logic programs. GAIA(PROP) was the first implementation of PROP and stimulated several other efforts in this area.

D. Presentations

D1. Keynote Addresses and Plenary Lectures

1. [Gaspard Monge Program for Optimization and Operations Research \(PGMO\)](#), Saclay, France, November 18–19, 2025. Clés de la Curiosité
2. [11th IFAC Conference on Manufacturing Modelling, Management and Control – IFAC MIM2025](#), Trondheim, Norway, 30 June - 3 July 2025.
3. [AAAI 2025 Bridge](#), Philadelphia, PA, February–March, 2025.
4. [International Symposium on Mathematical Programming \(ISMP\)](#), Montréal, Canada, July 2024 (Plenary Lecture).
5. [33rd European Conference on Operational Research \(EURO 2024\)](#), Copenhagen, Denmark, June 2024 (Plenary Lecture).
6. HBCU Engineering and Business Deans National Seminar, Atlanta, April 2024.
7. The Architecture of Green Energy Systems, Keynote, Chicago, June 17-21, 2024.
8. HBCU Engineering and Business Deans National Seminar, Atlanta, Georgia, April, 2024.
9. Supply Chain Management Conference, Urbana Champaign, IL, February 2024.
10. [2023 DSI Annual Conference - Responsive, Relevant, Responsible: Decision Making in the Age of Transformation](#), Atlanta, November 2023.
11. ORNL Core Universities AI workshop, Atlanta, October 31-November 1st, 2023.
12. 2023 EDGE Symposium, GE Research, Niskayuna, NY, September 19-21, 2023.
13. [Data-Driven Urban Tech: How Machine Learning and Optimization Addresses Today's Urban Challenges](#), Cornell Tech, NYC, May 15 – 17, 2023.
14. Einstein Thematic Workshop on Machine Learning for Optimization, Berlin, April, 2023.
15. AIRES 4 (Artificial Intelligence for Robust Engineering and Science, Oak Ridge National Laboratory, April 18-10, 2023.
16. [International Congress on Industrial and Applied Mathematics \(ICIAM 2023\)](#), Tokyo, Japan, August 20-25, 2023.
17. [TRB Innovations in Travel Analysis and Planning Conference](#), Indianapolis, June 4–6, 2023.
18. [COMBASE](#), Atlanta, October 20-22, 2022.
19. [Computing in Engineering Forum](#), University of Wisconsin, Madison, September 2022.
20. INFORMS Optimization Society (IOS) Conference, Greenville, SC, March, 2022.
21. AAAI 2022 Workshop on “Machine Learning for Operations Research”, February-March, 2022.
22. AAAI 2022 Workshop on “AI for Decision Optimization”, February-March, 2022.
23. Distinguished lecture, C3.ai Digital Transformation Institute (DTI) workshop on Machine Learning for Enabling a Resilient, Secure, and Carbon-1Free Supply of Electricity. June 2021.
24. [49th Annual Conference of the Operations Research Society of South Africa, October 19–21, 2020](#).
25. INFORMS Transportation and Logistics Conference, Arlington, VA, May 27-29, 2020.
26. INFORMS Optimization Society Conference, Greenville, SC, March 2020.
27. Aussois workshop on Combinatorial optimization, January 2020.
28. INFORMS Annual Conference, October 2019.
29. AI Frontier Forum, Nanjing, China, September 2019.
30. International Network Optimization Conference, Avignon, France, June 2019.
31. IISE Annual Conference and Exhibition, Orlando, Florida, May 2019.
32. 12th International Conference on the Practice and Theory of Automated Timetabling, Vienna, Austria, August 28–31. 2018.
33. Seventh International Workshop on Model-based Metaheuristics, Tours, France. 2018.
34. 15th Annual Modeling and OPTimization: Theory and Applications (MOPTA) conference, Beth-

- lehem, Pennsylvania, USA, August 16-18, 2017. (Plenary Talk).
35. 22nd International Conference on the Principles and Practice of Constraint Programming, Toulouse, France September 2016.
 36. 58th CORS Annual Conference, Banff, Canada, May-June, 2016.
 37. 14th International Symposium on Intelligent Data Analysis (IDA 2015), Saint-Etienne, France, October 22-24, 2015.
 38. 22nd International Symposium on Mathematical Programming (ISMP), Pittsburgh, July 12-17, 2015.
 39. International Conference on Logic Programming, Vienna, Austria, July 2014.
 40. French Operations Research Society (ROADEF), Bordeaux, France, February 26–28, 2014.
 41. 26th Australasian Joint Conference on Artificial Intelligence (AI 2013), Dunedin, New Zealand, December, 2013.
 42. Annual INFORMS Conference, Minneapolis, USA, 2013.
 43. 19th International Conference on Principles and Practice of Constraint Programming (CP 2013), Uppsala, Sweden, 2013.
 44. 23rd International Joint Conference on Artificial Intelligence (IJCAI'13), Beijing, China, August 2013..
 45. The 2013 World Congress on Global Optimization (WCGO'13), Yellow Mountain, China, July 2013.
 46. ICAPS'2011: 21st International Conference on Automated Planning and Scheduling, Freiburg, Germany. June 2011.
 47. MIC'2011: 9th Metaheuristics International Conference, Udine, Italy. July 2011.
 48. EMO'09: 5th International Conference on Evolutionary Multi-Criterion Optimization, Nantes, France, April 2009.
 49. NIPS'08: 22nd Annual Conference on Neural Information Processing Systems, Vancouver, December 2008.
 50. SIOPT'08: 9th (triennial) SIAM Conference on Optimization (Boston, MA), May 2008.
 51. CP-AI-OR'08: 5th International Conference on the Integration of AI and OR Techniques in CP, May 2008.
 52. MISTA'07: 3rd Multidisciplinary International Conference on Scheduling, Paris, France, August 2007.
 53. UAI'2006: 22nd Conference on Uncertainty in Artificial Intelligence, Boston, Ma, July 2006.
 54. AI'2006: 9th Conference of the Canadian Society for Computational Studies of Intelligence (Quebec, Canada), June 2006.
 55. JLPLC'02: French Conference on Logic and Constraint Programming, May 2002.
 56. ECP'01: European Conference on Planning, Toledo, Spain, September 2001
 57. APMOD'2000: Applied Mathematical Programming and Modeling, Brunel, England, 2000.
 58. PACT'00, Practical Application of Constraint Technology, Manchester, 2000.
 59. EPIA'99: Portugese Conference on Artificial Intelligence, 1999.
 60. JLPLC'99: French Conference on Logic and Constraint Programming, 1999.
 61. CP'97: Contraint Programming, Lintz, 1997.
 62. IJCAI'97: International Joint Conference on Artificial Intelligence, Nagoya, 1997.
 63. PACT'96: Practical Application of Constraint Technology, London.
 64. LPAR'92 (Conference on Logic Programming and Automated Reasoning), St Peterburg, 1992.

D2. Invited Conference and Workshop Presentations

1. *Supply Chain Leaders Excellence Program* (in partnership with Coca Cola), Sheller Business

- School, November 2025.
2. *Atlanta Tech Week 2025*, June 2025.
 3. *the North American Chapter of the International Group for the Psychology of Mathematics Education*, May 16, 2025.
 4. *2025 Annual Conference of the Production and Operations Management Society (POMS)*, Panel Moderator. May 9-12, 2025.
 5. [Business Analytics, Artificial Intelligence, and Cherry Blossom Conference](#), Washington, DC, March 22–23, 2025.
 6. [AI+ORMS: Combining AI and OR/MS for Better Trustworthy Decision Making](#), Philadelphia, PA, February, 2025.
 7. [AAAI 2025 bridge on XAI, energy and critical infrastructure](#), February, 2025.
 8. [6th Grid Science Winter School and Conference, Los Alamos National Laboratory \(LANL\)](#), Santa Fe, New Mexico, USA, January 6-10, 2025
 9. “AI in power systems” symposium, IEEE Student Branch Leuven - PES chapter, Leuven, Belgium, March 28, 2024.
 10. 2nd Vienna Workshop on Computational Optimization, Vienna, Austria, March 15-17, 2023.
 11. IISE Energy Systems Webinar, February 21, 2023.
 12. Reinventing the City: Session “On-demand services and public transport networks – the prospects of synergy”, February 16, 2022.
 13. IJCAI Panel on Computational Sustainability and Human Well-being, Yokohama, Japan, January 2021.
 14. IPAM Workshop Large Scale Autonomy: Connectivity and Mobility Networks, Institute for Pure and Applied Mathematics (IPAM), UCLA, November, 2020.
 15. Multi-Energy Systems Workshop – ETH Zurich, March 11-12, 2019.
 16. Webinar, Bus Rapid Transit Center of Excellence, Santiago, Chile, January 22, 2019.
 17. First International Workshop on Intelligent Transportation Informatics, Ann Arbor, July 12th, 2018.
 18. 2017 SIAM Conference on Optimization (Tutorial/Minisymposium on Power Systems), Vancouver, Canada, May 2017. (Tutorial)
 19. 2017 American Control Conference (Tutorial at the Control of Complex Systems Workshop), Seattle, WA, May 2017.
 20. TRB Partners in Research Symposium: Transformational Technologies, Detroit, MI. October-November, 2016.
 21. 2015 Grid Science Winter School, Santa Fe, January 12–14, 2015.
 22. 27th International Conference on Artificial Intelligence, Washington, DC, July 2013 (Spotlight Talk: What is hot?). (AAAI’13).
 23. Mathematics of Transportation, Melbourne, June 19–21, 2013.
 24. AustMS’12: 56th Australian Mathematical Society Conference (Power System Restoration after Significant Disruptions). Ballarat. September, 2012.
 25. CP’12: 18th International Conference on the Principles and Practice of Constraint Programming. October, 2012. (Invited Tutorial on Disaster Management).
 26. 32nd Annual CLNS Conference (Optimization and Control for Smart Grids), May 2012. “Smart Power Restoration”.
 27. ISCL’2011: 3rd International ALP/GULP Spring School on Computational Logic, Bertinoro, Italy.
 28. SymCon’10: Saint-Andrew, Scotland. September 2010.
 29. CP-AI-OR’08: 5th International Conference on the Integration of AI and OR Techniques in CP, May 2008. (Tutorial)

30. INFORMS'07: Annual Informs Conference, Seattle, Wa, November 2007 (Tutorial)
31. AAAI'2007: 21st AAAI Conference on Artificial Intelligence, Vancouver, Canada, July 2007 (Tutorial)
32. LSCS'06: (Nantes, France), September 2006
33. AAAI'2006: 21st AAAI Conference on Artificial Intelligence, Boston, Ma, July 2006 (Tutorial)
34. MLS+CP'05: Nantes, France, November 2005.
35. INFORMS-4: Informs Annual Meeting'04 (Denver), October 2004 (Tutorial)
36. CP'04: Tenth International Conference on Principles and Practice of Constraint Programming. Toronto, Canada, September 2004 (Tutorial)
37. CP'04: Tenth International Conference on Principles and Practice of Constraint Programming. Toronto, Canada, September 2004 (Doctoral Tutorial)
38. Changes04: Toronto, Canada, September 2004
39. Logic Programming Summer School (Dallas), June 2004 (Tutorial)
40. NEPLS'2003: New England Programming Languages and Systems Symposium (Spring 2003).
41. CAV'01: Computer-Aided Verification, Paris, France, July 2001 (Tutorial)
42. CP-AI-OR'00 (Paderborn, Germany): International Workshop on AI/OR techniques in CP
43. CL'2000 (London, UK): Computational Logic (Tutorial)
44. RFIA'2000 (Paris, France): Pattern Matching and Artificial Intelligence
45. ConsNet-99: UK Constraint Network, Edinburgh 1999
46. INFORMS'99: (Tutorial on OPL)
47. DIMACS Workshop on constraint programming and large-scale optimization, 1998
48. CP'96: Constraint Programming, Boston (Invited Tutorial)
49. ECAI'96: European Conference on Artificial Intelligence, Budapest (Invited Tutorial)
50. INTERVAL'96:Wuerzburg, Germany
51. IJCAI'95: International Joint Conference on Artificial Intelligence (Tutorial)
52. CP'95: International Conference on Constraint Programming (Invited Tutorial)
53. AAAI'94: (Tutorial in Constraint Satisfaction (with E. Freuder))
54. ICLP'93 (Advanced Tutorial on Constraint Logic Programming)
55. IJCAI'93 (Tutorial on Constraint Reasoning and Programming (with E. Freuder))
56. WCLP-93 (Workshop on Constraint Logic Programming)
57. WSA-93 (International Workshop on Static Analysis)
58. IEEE COMPEURO 92 (State-of-the-Art Lecturer)
59. COMPCON-91
60. PDK'91 (Processing Declarative knowledge)
61. NACLCP'90: (Tutorial on constraint logic programming)
62. UKALP'90 Conference on Logic Programming.

D3. Invited Seminar Presentations

1. *Distinguished Lecture*, Lehigh University, Spring 2026.
2. *Douglas C. Montgomery Distinguished Lecture*, University of Arizona, April 2025.
3. *ORC/LIDS Seminar Series*, MIT, March 2025.
4. Ross B. Corotis Lecture, Johns Hopkins University, November 2024.
5. Clemson University, Spring, 2024.
6. Princeton University, November, 2023.
7. Rutgers University, November, 2023.
8. Amazon, FO Research series - Distinguished speaker, November, 2023.
9. Los Alamos National Laboratory, AI Forum, September, 2023.

10. Brown University, September, 2023.
11. University of Tennessee, Knoxville (UTK), April, 2023.
12. Inaugural Talk, Dr. Ben Ostrofsky Lecture Series, University of Houston, March, 2023.
13. Distinguished Lecture Series, the Cheriton School of Computer Science, University of Waterloo, 2022.
14. Distinguished Research Seminar, The Hong Kong Polytechnic University, October 17, 2022.
15. University of Pittsburgh, October 6, 2022.
16. Argonne National Laboratory, May 19, 2022.
17. ORIE, University of Austin, April 15, 2022.
18. Global Scheduling Seminar Series, April 13, 2022.
19. University of Trier, Germany, May 2021.
20. University of California at Berkeley, April 2021.
21. Arizona State University, IE Seminar Series, April 2021.
22. University of Florida, ISE Distinguished Seminar Series, April 2021.
23. Texas A&M Institute of Data Science Seminar Series, March 2021.
24. University of Washington, ISE Graduate Seminar Series, February 2021.
25. INFORMS Transportation Science & Logistics (TSL) seminar series, January, 2021.
26. Operations Research and Data Science Distinguished Seminar Series, Texas A&M, March 2020.
27. Nanjing University, China, September 2019 (Distinguished Seminar Series).
28. Southeast University, Nanjing, China, September 2019 (Distinguished Seminar Series).
29. Industrial and Systems Engineering Seminar, Ohio State University, April, 2019.
30. University of Southern California (Los Angeles), February 2017.
31. The University of Washington, Clean Energy Seminar Series, October 2016.
32. Columbia University, Industrial Engineering and Operations Research, September 2016.
33. MIT, Operations Research Center, April 2016.
34. Carnegie Mellon University, Pittsburgh, October 2015.
35. University of Michigan, Ann Arbor, February 2015.
36. Northeastern University, Boston, January 2015.
37. University of Texas, Austin. January 2015.
38. Georgia Tech, November 2014.
39. University of Sydney, April 2014.
40. IIIT, Bangalore, November 2013.
41. Caltech, October 2013.
42. Princeton University, October 2013.
43. Harvard University, October 2013.
44. University of Michigan, October 2013.
45. University of Wisconsin, October 2013.
46. Rensselaer Polytechnic Institute, October 2013.
47. Distinguished Seminar Speaker, University of Toronto, October 2013.
48. University of Montreal, October 2013.
49. Santa Fe Institute (SFI), Sante Fe, March 2013.
50. Center of Nonlinear Studies, Los Alamos, March 2013.
51. RMIT, March 2013.
52. Swinburne University, February 2013.
53. Griffith University, Australia, November 2012.
54. University of Connecticut, USA. November 2012.
55. Centre for Planning and Operations, University of Newcastle, Australia. March 2012.
56. University of Ballarat.

57. Los Alamos National Laboratories, February 2012.
58. Los Alamos National Laboratories, February 2012.
59. Los Alamos National Laboratories, February 2012.