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Updated up to 2021

Short profile

Nicolas Zufferey is a full professor of operations management at the University of Geneva in Switzerland, since 2008. His research activity focuses on designing solution methods for difficult and large optimization problems, with applications mainly in transportation, scheduling, production, inventory management, network design, supply chain management and telecommunications. He is member of the CIRRELT transportation and logistics research center (www.cirrelt.ca) and of the GERAD decision-analysis research center (www.gerad.ca). He received his BSc and MSc degrees in Mathematics at EPFL (Swiss Federal Institute of Technology at Lausanne), as well as his PhD degree in operations research (2002). He was then successively a post-doctoral trainee at the University of Calgary (2003 – 2004) and an assistant professor at Laval University (2004 – 2007). He is the (co)author of more than 130 publications (papers in professional journals, proceedings of conferences, and book chapters) and has reviewed papers for 51 international journals. With 71 coauthors, he has had research activities with 32 Universities (mainly in Europe and America), as well as with 25 private companies.

Published or accepted papers in journals with review process

2021

- M.-A. Coindreau, O. Gallay, N. Zufferey, G. Laporte, *Inbound and Outbound Flow Integration for Cross-Docking Operations,* **European Journal of Operational Research** 294 (3), 1153 – 1163, 2021
- A. Mediouni, N. Zufferey, M. Rached, N. Cheikhrouhou, *A multi-period multi-level capacitated lot-sizing and scheduling problem in the dairy industry*, **Supply Chain Forum: An International Journal**, published in Open Access, https://doi.org/10.1080/16258312.2021.2007735, 2021
- K. Kassoul, N. Cheikhrouhou, N. Zufferey, *Buffer Allocation Design for Unreliable Production Lines using Genetic Algorithm and Finite Perturbation Analysis*, **International Journal of Production Research**, published in Open Access, https://doi.org/10.1080/00207543.2021.1909169, 2021
- M.-A. Coindreau, O. Gallay, N. Zufferey, *Synchronizing Trucks and Drones for a Real-World Parcel Delivery Problem with Time-Window Constraints,* **Networks** 78 (4), 400 – 420, 2021
- D. C. Bissoli, N. Zufferey, A. R. S. Amaral, *Lexicographic-optimization-based Clustering Search metaheuristic for the multi-objective flexible job shop scheduling problem*, **International Transactions in Operational Research** 28 (5), 2733 – 2758, 2021

2020

- S. Voldrich, Ph. Wieser, N. Zufferey, *Optimizing the Trade-off between Performance Measures and Operational Risk in a Food Supply Chain Environment*, **Soft Computing** 24, 3365 – 3378, 2020
- S. Voldrich, Ph. Wieser, N. Zufferey, *Design of a Quality Control Network for an International Food Company*, **Information Systems and Operational Research** 58 (1), 1 – 16, 2020
- Ch. Niesseron, R. Glardon, N. Zufferey, M. Jafari, *Energy Efficiency Optimization in Supply Chain Network: Impact of Inventory Management*, **International Journal of Supply Chain and Inventory Management** 3 (2), 93 – 123, 2020

2019

- A. Mediouni, N. Zufferey, N. Subramanian, N. Cheikhrouhou, *Fit between humanitarian professionals and project requirements: Hybrid group decision procedure to reduce uncertainty in decision-making*, **Annals of Operations Research** 283, 471 – 496, 2019
- M.-A. Coindreau, O. Gallay, N. Zufferey, G. Laporte, *Integrating workload smoothing and inventory reduction in three intermodal platforms of a European car manufacturer,* **Computers & Operations Research** 112, 2019
- M.-A. Coindreau, O. Gallay, N. Zufferey, *Vehicle Routing with Transportable Resources: Using Carpooling and Walking for On-site Services*, **European Journal of Operational Research** 279 (3), 996 – 1010, 2019

- A. Kaboli, N. Cheikhrouhou, R. Glardon, N. Zufferey, *Replenishment Behavior in Sequential Supply Chain*, **International Journal of Logistics Systems and Management** 32 (3/4), 322 – 345, 2019
- M.-S. Vié, N. Zufferey, J.-F. Cordeau, *Solving the Wire-Harness Design Problem at a European Car Manufacturer*, **European Journal of Operational Research** 272 (2), 712 – 724, 2019
- S. Thevenin, N. Zufferey, *Learning Variable Neighborhood Search for a Scheduling Problem with Time Windows and Rejections*, **Discrete Applied Mathematics** 261, 344 – 353, 2019
- J. Respen, N. Zufferey, J.-Y. Potvin, *Impact of Online Tracking on a Vehicle Routing Problem with Dynamic Travel Times*, **RAIRO – Operations Research** 53, 401 – 414, 2019

2018

- M.-A. Carle, A. Martel, N. Zufferey, *Collaborative Agent Teams (CAT): from the Paradigm to Implementation Guidelines*, **Lecture Notes in Computer Science** 10835, 62 – 74, 2018
- N. Zufferey, O. Gallay, *Collaborative Variable Neighborhood Search,* **Lecture Notes in Computer Science** 10835, 320 – 332, 2018
- S. Thevenin, N. Zufferey, J.-Y. Potvin, *Graph multi-coloring for a job scheduling application*, **Discrete Applied Mathematics** 234, 218 – 235, 2018

2017

- S. Thevenin, N. Zufferey, R. Glardon, *Model and Metaheuristics for a Scheduling Problem Integrating Procurement, Sale and Distribution*, **Annals of Operations Research** 259 (1), 437 – 460, 2017
- J. Respen, N. Zufferey, Ph. Wieser, *Three-level inventory deployment for a luxury watch company facing various perturbations*, **Journal of the Operational Research Society** 68 (10), 1195 – 1210, 2017
- L. Arguilaget Montarelo, R. Glardon, N. Zufferey, *A Global Simulation-Optimization Approach for Inventory Management in a Decentralized Supply Chain*, **Supply Chain Forum: An International Journal** 18 (2), 112 – 119, 2017
- S. Voldrich, Ph. Wieser, N. Zufferey, *Competitive and Timely Food Supply combined with Operational Risk*, **Supply Chain Forum: An International Journal** 18 (1), 2 – 6, 2017
- J. Respen, N. Zufferey, *Metaheuristics for Truck Loading in the Car Production Industry*, **International Transactions in Operational Research** 24 (1-2), 277 – 301, 2017
- S. Thevenin, N. Zufferey, J.-Y. Potvin, *Makespan minimization for a parallel machine scheduling problem with preemption and job incompatibility*, **International Journal of Production Research** 55 (6), 1588 – 1606, 2017

2016

- S. Thevenin, N. Zufferey, M. Widmer, *Order acceptance and scheduling with earliness and tardiness penalties*, **Journal of Heuristics** 22 (6), 849 – 890, 2016
- M. Michalska, N. Zufferey, M. Mattavelli, *Performance Estimation Based Multi-Criteria Partitioning Approach for Dynamic Dataflow Programs,* **Journal of Electrical and Computer Engineering**, Article ID 8536432, 15 pages, 2016
- M. Michalska, N. Zufferey, M. Mattavelli, *Tabu Search for Partitioning Dynamic Dataflow Programs*, **Procedia Computer Science** 80, 1577–1588, 2016 (M. Connolly (Ed.): ICCS)
- J. Respen, N. Zufferey, E. Amaldi, *Metaheuristics for a Job Scheduling Problem with Smoothing Costs Relevant for the Car Industry*, **Networks** 67 (3), 246 – 261, 2016

2015

- N. Zufferey, J. Farres, R. Glardon, *Ant Metaheuristics with Adapted Personalities for the Vehicle Routing Problem*, **Lecture Notes in Computer Science** 9335, 1 – 13, 2015 (F. Corman et al. (Eds.): ICCL)
- N. Zufferey, D. Schindl, *Learning Tabu Search for Combinatorial Optimization*, **Communications in Computer and Information Science** 509, 3 – 11, 2015
- D. Schindl, N. Zufferey, *A Learning Tabu Search for a Truck Allocation Problem with Linear and Nonlinear Cost Components*, **Naval Research Logistics** 61 (1), 32 – 45, 2015
- S. Thevenin, N. Zufferey, M. Widmer, *Metaheuristics for a Scheduling Problem with Rejection and Tardiness Penalties*, **Journal of Scheduling** 18 (1), 89 – 105, 2015
- N. Zufferey, M. Vasquez, *A Generalized Consistent Neighborhood Search for Satellite Scheduling Problems*, **RAIRO – Operations Research** 41 (1), 99 – 121, 2015

2014

- N. Zufferey, *Ant Local Search for Combinatorial Optimization*, **Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering series** 134, 223 – 236, 2014

2013

- D. Schindl, N. Zufferey, *Solution Methods for Fuel Supply of Trains*, **Information Systems and Operational Research** 51 (1), 23 – 30, 2013
- I. Bloechliger, N. Zufferey, *Multi-Coloring and Project-Scheduling with Incompatibility and Assignment Costs*, **Annals of Operations Research** 211 (1), 83 – 101, 2013

2012

- M. Vasquez, N. Zufferey, *Consistent Neighborhood Search for Combinatorial Optimization*, **ISRN Computational Mathematics**, vol. 2012, ID 671423, 12 pages, 2012
- M.-A. Carle, A. Martel, N. Zufferey, *The CAT Metaheuristic for the Solution of Multi-Period Activity-Based Supply Chain Network Design Problems*, **International Journal of Production Economics** 139 (2), 664 – 677, 2012
- N. Zufferey, *Metaheuristics: some Principles for an Efficient Design*, **Computer Technology and Applications** 3 (6), 446 – 462, 2012
- M. Verma, V. Verter, N. Zufferey, *A Bi-Objective Model for Planning and Managing Rail-Truck Intermodal Transportation of Hazardous Materials*, **Transportation Research E: Logistics and Transportation Review** 48 (1), 132 – 149, 2012
- N. Zufferey, *Optimization by Ant Algorithms: Possible Roles for an Individual Ant*, **Optimization Letters** 6 (5), 963 – 973, 2012
- N. Zufferey, O. Labarthe, D. Schindl, *Heuristics for a Project Management Problem with Incompatibility and Assignment Costs*, **Computational Optimization and Applications** 51, 1231 – 1252, 2012

2011

- N. Zufferey, M. Verma, *Tabu Search for Shipping Dangerous Goods in a Rail-Truck Network*, **Research in Logistics & Production** 1 (3), 127 – 137, 2011
- H. Amrani, A. Martel, N. Zufferey, P. Makeeva, *A Variable Neighborhood Search Heuristic for the Design of Multicommodity Production-Distribution Networks with Alternative Facility Configurations*, **Operations Research Spectrum** 33 (4), 989 – 1007, 2011
- S. Lorini, J.-Y. Potvin, N. Zufferey, *Online Vehicle Routing and Scheduling with Dynamic Travel Times*, **Computers & Operations Research** 38 (7), 1086 – 1090, 2011
- E. A. Silver, N. Zufferey, *Inventory Control of an Item with a Probabilistic Replenishment Lead Time and a Known Supplier Shutdown Period*, **International Journal of Production Research** 49 (4), 923 – 947, 2011

2010

- F.-X. Meuwly, B. Ries, N. Zufferey, *Solution Methods for a Scheduling Problem with Incompatibility and Precedence Constraints*, **Algorithmic Operations Research** 5 (2), 75 – 85, 2010
- M. Plumettaz, D. Schindl, N. Zufferey, *Ant Local Search and its Efficient Adaptation to Graph Colouring*, **Journal of the Operational Research Society** 61 (5), 819 – 826, 2010
- M. Bierlaire, M. Thémans, N. Zufferey, *A Heuristic for Nonlinear Global Optimization*, **INFORMS Journal on Computing** 22 (1), 59 – 70, 2010

2009

- A. Hertz, D. Schindl, N. Zufferey, *A Solution Method for a Car Fleet Management Problem with Maintenance Constraints*, **Journal of Heuristics** 15 (5), 425 – 450, 2009

2008

- S. Varone, N. Zufferey, *Three Tabu Search Methods for the MI-FAP Applied to 802.11 Networks*, **RAIRO – Operations Research** 42, 501 – 514, 2008
- N. Zufferey, P. Amstutz, P. Giaccari, *Graph Colouring Approaches for a Satellite Range Scheduling Problem*, **Journal of Scheduling** 11 (4), 263 – 277, 2008
- A. Hertz, M. Plumettaz, N. Zufferey, *Variable Space Search for Graph Coloring*, **Discrete Applied Mathematics** 156 (13), 2551 – 2560, 2008
- I. Bloechliger, N. Zufferey, *A Graph Coloring Heuristic using Partial Solutions and a Reactive Tabu Scheme*, **Computers & Operations Research** 35, 960 – 975, 2008
- P. Galinier, A. Hertz, N. Zufferey, *An Adaptive Memory Algorithm for the Graph Coloring Problem*, **Discrete Applied Mathematics** 156 (2), 267 – 279, 2008

Before 2008

- L. Luyet, S. Varone, N. Zufferey, *An Ant Algorithm for the Steiner Tree Problem in Graphs*, **Lecture Notes in Computer Science** 4448, 42 – 51, M. Giacobini et al. (Eds.): EvoWorkshops, 2007
- E. A. Silver, N. Zufferey, *Inventory Control of Raw Material under Stochastic and Seasonal Lead Times*, **International Journal of Production Research** 43 (24), 5161 – 5179, 2005
- A. Hertz, D. Schindl, N. Zufferey, *Lower Bounding and Tabu Search Procedures for the Frequency Assignment Problem with Polarization Constraints*, **4OR** 3 (2), 139 – 161, 2005
- C. Avanthay, A. Hertz, N. Zufferey, *A Variable Neighborhood Search for Graph Coloring*, **European Journal of Operational Research** 151, 379 – 388, 2003

Published or accepted papers in conference proceedings with review process

2021

- O. Gallay, M.-A. Coindreau, N. Zufferey, *Truck-and-drone parcel delivery in the Alps,* **Proceedings of the International Conference Optimization and Decision Science**, ODS 2021, Roma, Italy, September 4 – 7, 2021
- N. Zufferey, M.-S. Vié, R. Leus, *Local Search for Aircraft-Landing Planning,* **Proceedings of the International Conference Optimization and Decision Science**, ODS 2021, Roma, Italy, September 4 – 7, 2021
- N. Zufferey, M.-A. Coindreau, O. Gallay, G. Laporte, *Workload balancing at cross-docking platforms,* **Proceedings of the International Conference Optimization and Decision Science**, ODS 2021, Roma, Italy, September 4 – 7, 2021
- M.-S. Vié, N. Zufferey, R. Leus, *Minimizing Delays in Aircraft-Landing Scheduling,* **Proceedings of the 17th International Workshop on Project Management and Scheduling**, PMS 2021, Toulouse, France, April 21 - 23, 2021

2020

- A. S. Bah, T. Sanchez, Y. Zhang, K. Sasai, D. Conciatori, L. Chouinard, G. J. Power and N. Zufferey, *Assessing the Condition of Reinforced Concrete Bridge Using Visual Inspection Ratings*, **Proceedings of the 15th International Conference on Durability of Building Materials and Components**, DBMC 15, Barcelona, Spain, June 30 – July 3, 2020
- M.-A. Coindreau, O. Gallay, N. Zufferey, G. Laporte, *Balancing the workload in logistics platforms by joint optimization of inbound and outbound flows*, **Proceedings of the 21st Annual Congress of the French Operations Research Society**, ROADEF 2020, Montpellier, France, February 19 – 21, 2020 (best paper award)

2019

- M.-S. Vié, N. Zufferey, *Enhancing the productivity of a bottle production line,* **Proceedings of the International Conference Optimization and Decision Science**, ODS 2019, Genova, Italy, September 4 – 7, 2019
- N. Zufferey, R. Tison, *Integrating Vehicle Routing and Resource Allocation in a Pharmaceutical Network,* **Proceedings of the International Conference Optimization and Decision Science**, ODS 2019, Genova, Italy, September 4 – 7, 2019
- S. Thevenin, N. Zufferey, *Enhancing Variable Neighborhood Search with a learning mechanism*, **Proceedings of the 20th Annual Congress of the French Operations Research Society**, ROADEF 2019, Le Havre, France, February 19 – 21, 2019

2018

- M.-S. Vié, N. Zufferey, L. Coelho, *Production and distribution planning for smoothing supply-chain variations,* **Proceedings of the 16th International Workshop on Project Management and Scheduling**, PMS 2018, Rome, Italy, April 17 – 20, 2018
- M.-A. Coindreau, O. Gallay, N. Zufferey, *Synchronizing Heterogeneous Vehicles in a Routing and Scheduling Context*, **Proceedings of the 16th International Workshop on Project Management and Scheduling**, PMS 2018, Rome, Italy, April 17 – 20, 2018
- N. Zufferey, *Multi-Level Tabu Search for Job Scheduling in a Variable-Resource Environment*, **Proceedings of the 16th International Workshop on Project Management and Scheduling**, PMS 2018, Rome, Italy, April 17 – 20, 2018
- M.-S. Vié, N. Zufferey, R. Leus, *Aircraft Landing Planning: Past, Present and Future*, **Proceedings of the 19th Annual Congress of the French Operations Research Society**, ROADEF 2018, Lorient, France, February 21 – 23, 2018

- O. Gallay, N. Zufferey, *Metaheuristics for lexicographic optimization in industry*, **Proceedings of the 19th EU/ME Workshop on Metaheuristics for Industry**, EU/ME 2018, Geneva, Switzerland, March 22 – 23, 2018
- S. Thevenin, N. Zufferey, *Reactive Variable Neighborhood Search*, **Proceedings of the 19th EU/ME Workshop on Metaheuristics for Industry**, EU/ME 2018, Geneva, Switzerland, March 22 – 23, 2018
- N. Zufferey, *Ants cannot color graphs*, **Proceedings of the 19th EU/ME Workshop on Metaheuristics for Industry**, EU/ME 2018, Geneva, Switzerland, March 22 – 23, 2018

2017

- J. Respen, N. Zufferey, *Inventory Deployment with Uncertainty on Production and Lead-Times*, **Proceedings of the International Conference on Industrial Engineering and Systems Management**, IESM 2017, Saarbruecken, Germany, October 11 – 13, 2017
- J. Respen, N. Zufferey, *A Push Shipping-Dispatching Approach for High-Value Items: from Modeling to Managerial Insights*, **Proceedings of the International Conference Optimization and Decision Science**, ODS 2017, Sorrento, Italy, September 4 – 7, 2017
- M.-A. Coindreau, O. Gallay, N. Zufferey, *Multi-Modal Variations of the Vehicle Routing Problem*, **Proceedings of the 1st INFORMS Conference of the Transportation Science & Logistics Society**, TSL 2017, Chicago, USA, July 26 – 29, 2017
- S. Voldrich, Ph. Wieser, N. Zufferey, *Performance versus Risk in a Food Supply Chain*, **Proceedings of the 3rd International Conference Project-Logistic**, PROLOG 2017, La Rochelle, May 11 – 12, 2017
- Ch. Niesseron, R. Glardon, N. Zufferey, M. Jafari, *Energy Consumption vs Economic Profit in Supply Chain Networks*, **Proceedings of the 18th EU/ME Workshop on Metaheuristics for a Better World**, EU/ME 2017, Roma, Italy, April 3 – 4, 2017
- M.-S. Vié, N. Zufferey, J.-F. Cordeau, *Optimizing the Standardization of Car Cables*, **Proceedings of the 18th Annual Congress of the French Operations Research Society**, ROADEF 2017, Metz, France, February 22 – 24, 2017
- M.-A. Coindreau, O. Gallay, N. Zufferey, *Vehicle Routing with Multi-Modality: A Practical Application*, **Proceedings of the 18th Annual Congress of the French Operations Research Society**, ROADEF 2017, Metz, France, February 22 – 24, 2017

2016

- M. Michalska, N. Zufferey, E. Bezati, M. Mattavelli, *Design Space Exploration Problem Formulation for Dataflow Programs on Heterogeneous Architectures*, **Proceedings of the IEEE 10th International Symposium on Embedded Multicore/Many-core Systems-on-Chip**, MCSoC 2016, Lyon, France, September 21 – 23, 2016
- S. Voldrich, Ph. Wieser, N. Zufferey, *Food Supply Tomorrow: Combining Performance & Operational Risk?* **Proceedings of the 11th International Meeting on Logistics Research**, Lausanne, Switzerland, September 8 – 9, 2016
- M.-A. Carle, A. Martel, N. Zufferey, *Collaborative Agent Teams for a Supply Chain Network Design Problem*, **Proceedings of the 11th International Meeting on Logistics Research**, Lausanne, Switzerland, September 8 – 9, 2016
- L. Arguilaget Montarelo, R. Glardon, N. Zufferey, *Local Inventory Management Policies for Optimal Global Performances in a Decentralized Supply Chain*, **Proceedings of the 11th International Meeting on Logistics Research**, Lausanne, Switzerland, September 8 – 9, 2016
- N. Zufferey, B. Y. Cho, R. Glardon, *Dynamic Multi-Trip Vehicle Routing with Unusual Time-Windows for the Pick-Up of Blood Samples and Delivery of Medical Material*, **Proceedings of the 5th International Conference on Operations Research and Enterprise Systems**, ICORES 2016, Rome, Italy, February 23 – 25, 2016
- M. Michalska, N. Zufferey, J. Boutellier, E. Bezati, M. Mattavelli, *Efficient scheduling policies for dataflow programs executed on multi-core*, **Proceedings of the 9th International Workshop on Programmability and Architectures for Heterogeneous Multicore**, MULTIPROG 2016, Prague, Czech Republic, January 18, 2016
- N. Zufferey, *SMART: Solution Methods with Ants Running by Types*, **Proceedings of the 18th International Conference on Computational Management Science**, ICCMS 2016, Zurich, Switzerland, January 12 – 13, 2016

2015

- N. Zufferey, *Multiple Neighborhoods in Tabu Search: Successful Applications in Operations Management*, **Proceedings of the 4th M-Sphere Conference**, M-SPHERE 2015, Dubrovnik, Croatia, October 22 – 24, 2015
- N. Zufferey, *Adaptive Memory Algorithm with the Covering Recombination Operator*, **Advances in Intelligent Systems and Computing** 360, 153 – 164, Proceedings of the Conference on Modelling, Computation and Optimization in Information Systems and Management Sciences, MCO 2015, Metz, France, May 11 – 13, 2015

- N. Zufferey, *Graph Coloring Tabu Search for Project Scheduling*, **Advances in Intelligent Systems and Computing** 358, 107 – 118, Proceedings of the International Conference on Computer Science, Applied Mathematics and Applications, ICCSAMA 2015, Metz, France, May 11 – 13, 2015

2014

- J. Respen, N. Zufferey, *Tabu search with guided restarts for a car production problem with a 2/3 balancing penalty*, **Proceedings of the 5th International Conference on Metaheuristics and Nature Inspired Computing**, META 2014, Marrakech, Morocco, October 27 – 31, 2014
- S. Thevenin, N. Zufferey, *A deconstruction-reconstruction metaheuristic for a job scheduling problem*, **Proceedings of the 5th International Conference on Metaheuristics and Nature Inspired Computing**, META 2014, Marrakech, Morocco, October 27 – 31, 2014
- N. Zufferey, *Tabu Search with Diversity Control and Simulation for an Inventory Management Problem*, **Proceedings of the 5th International Conference on Metaheuristics and Nature Inspired Computing**, META 2014, Marrakech, Morocco, October 27 – 31, 2014
- N. Zufferey, *Graph Coloring and Job Scheduling: from Models to Powerful Tabu Search Solution Methods*, **Proceedings of the 14th International Workshop on Project Management and Scheduling**, PMS 2014, Munich, Germany, March 31 – April 2, 2014
- S. Thevenin, N. Zufferey, *Variable Neighborhood Search for a Scheduling Problem with Time Window Penalties*, **Proceedings of the 14th International Workshop on Project Management and Scheduling**, PMS 2014, Munich, Germany, March 31 – April 2, 2014
- J. Respen, N. Zufferey, *Ant Algorithms for a Truck Loading Problem with Multiple Destinations*, **Proceedings of the 14th International Workshop on Project Management and Scheduling**, PMS 2014, Munich, Germany, March 31 – April 2, 2014
- S. Thevenin, N. Zufferey, J.-Y. Potvin, *Multi-objectives parallel machines scheduling with incompatible jobs*, **Proceedings of the 15th Annual Congress of the French Operations Research Society**, ROADEF 2014, Bordeaux, France, February 26 – 28, 2014 (selected for the final phase of the young researcher prize)
- J. Respen, N. Zufferey, J.-Y. Potvin, *Online Vehicle Routing and Scheduling with Continuous Vehicle Tracking*, **Proceedings of the 15th Annual Congress of the French Operations Research Society**, ROADEF 2014, Bordeaux, France, February 26 – 28, 2014
- N. Zufferey, *Design and Classification of Ant Metaheuristics,* **Proceedings of the 22nd Euromicro International Conference on Parallel, Distributed and Network-Based Processing**, PDP 2014, Turin, Italy, February 12 – 14, 2014

2013

- N. Zufferey, *Ant Decision Systems for Combinatorial Optimization with Binary Constraints*, **Proceedings of the 2013 International Conference on Applied Mathematics and Computational Methods**, AMCM 2013, Venice, Italy, September 28 – 30, 2013
- S. Thevenin, N. Zufferey, M. Widmer, *Tabu Search for a Single Machine Scheduling Problem with Discretely Controllable Release Dates*, **Proceedings of the 12th International Symposium on Operations Research in Slovenia**, 1590 – 1595, SOR 2013, Dolenjske Toplice, Slovenia, September 25 – 27, 2013
- S. Thevenin, N. Zufferey, J.-Y. Potvin, *Tabu Search for a Preemptive Scheduling Problem with Job Incompatibilities*, **Proceedings of the IFAC Conference on Manufacturing Modeling, Management and Control**, MIM 2013, St-Petersburg, Russia, June 19 – 21, 2013
- J. Respen, N. Zufferey, *A Renault Truck Loading Problem: from Benchmarking to Improvements*, **Proceedings of the 14th EU/ME Workshop**, EU/ME 2013, Hamburg, Germany, February 28 – March 1, 2013
- N. Zufferey, *Successful Elements for Developing Job-Shop Scheduling Metaheuristics*, **Proceedings of the Advances in Business-Related Scientific Research Conference**, ABSRC 2013, Venice, Italy, March 20 – 22, 2013
- N. Zufferey, *How to Build and Evaluate a Solution Method: an Illustration for the Vehicle Routing Problem*, **Proceedings of the International Conference on Econometrics, Operations Research and Statistics**, ICEORS 2013, Zurich, Switzerland, January 14 – 15, 2013

2012

- I. Bloechliger, N. Zufferey, *Local Search Techniques for a Job Scheduling Problem with Overlapping Costs when Preemptions are Allowed*, **Proceedings of 4th International Conference on Metaheuristics and Nature Inspired Computing**, META 2012, Sousse, Tunisia, October 27 – 31, 2012
- N. Zufferey, *Dynamic Tabu Search with Simulation for a Resource Allocation Problem within a Production Environment*, **Proceedings of 4th International Conference on Metaheuristics and Nature Inspired Computing**, META 2012, Sousse, Tunisia, October 27 – 31, 2012

- D. Schindl, N. Zufferey, *Ant Local Search for Fuel Supply of Trains in America*, **Proceedings of the 1st IEEE International Conference on Logistics Operations Management**, LOM 2012, Le Havre, France, October 17 – 19, 2012
- J. Respen, N. Zufferey, E. Amaldi, *Heuristics for a Multi-Machine Multi-Objective Job Scheduling Problem with Smoothing Costs*, **Proceedings of the 1st IEEE International Conference on Logistics Operations Management**, LOM 2012, Le Havre, France, October 17 – 19, 2012
- S. Thevenin, N. Zufferey, M. Widmer, *Tabu Search to Minimize Regular Objective Functions for a Single Machine Scheduling Problem with Rejected Jobs, Setups and Time Windows*, **Proceedings of the 9th International Conference on Modeling, Optimization & Simulation**, MOSIM 2012, Bordeaux, France, June 6 – 8, 2012
- M. Vasquez, N. Zufferey, *Consistent Neighborhood Search for Constrained Assignment Problems*, **Proceedings of the 9th International Conference on Modeling, Optimization & Simulation**, MOSIM 2012, Bordeaux, France, June 6 – 8, 2012
- N. Zufferey, N. Cheikhrouhou, *Tabu Search using Variable Amplitudes for Dimensioning an Assembly/Disassembly Production System*, **Proceedings of the 13th International Workshop on Project Management and Scheduling**, PMS 2012, 320 – 323, Leuven, Belgium, April 1 – 4, 2012

2011

- M. Verma, V. Verter, N. Zufferey. *A Population Exposure Approach to Planning Intermodal Transportation of Hazardous Materials*, **Proceedings of the 15th Annual International Conference of Society of Operations Management**, 95 – 101, Calcutta, India, December 16 – 18, 2011
- N. Zufferey, F. Glover, *A Reconstructive Evolutionary Metaheuristic for the Vertex Coloring Problem*, **Proceedings of the 23rd Benelux Conference on Artificial Intelligence**, BNAIC 2011, 352 – 357, Gent, Belgium, November 3 – 4, 2011
- D. Schindl, N. Zufferey, *A Local Search for Refueling Locomotives*, **Proceedings of the 54th annual conference of the Administrative Science Association of Canada**, Production & Operations Management Division, ASAC 2011, 53 – 61, Montreal, Canada, July 2 – 5, 2011

2010

- N. Zufferey, O. Labarthe, D. Schindl, *Tabu Search for a Project Scheduling Problem with Incompatibility and Assignment Costs*, **Proceedings of the 12th International Workshop on Project Management and Scheduling**, PMS 2010, 391 – 395, Tours, France, April 26 – 28, 2010

Before 2009

- M. Bierlaire, M. Thémans, N. Zufferey, *Nonlinear Global Optimization Relevant to Discrete Choice Models Estimation*, **Proceedings of the 7th Swiss Transport Research Conference**, STRC 2007, Ascona, Switzerland, September 12 – 14, 2007
- M. Bierlaire, M. Thémans, N. Zufferey, *A Heuristic for Nonlinear Global Optimization Relevant to Discrete Choice Models Estimation*. **Proceedings of the 6th Triennial Symposium on Transportation Analysis**, TRISTAN 2007, Phuket Island, Thailand, June 10 – 15, 2007
- A. Hertz, N. Zufferey, *A New Ant Colony Algorithm Graph Coloring*, **Proceedings of the Workshop on Nature Inspired Cooperative Strategies for Optimization**, NICSO 2006, 51 – 60, Granada, Spain, June 29 – 30, 2006
- N. Zufferey, M. Studer, E. A. Silver, *Tabu Search for a Car Sequencing Problem*, **Proceedings of the 19th International Florida Artificial Intelligence Research Society Conference**, 457 – 462, FLAIRS 2006, Melbourne, USA, May 11 – 13, 2006
- P. Galinier, A. Hertz, N. Zufferey, *Adaptive Memory Algorithms for Graph Coloring*, **Proceedings of the Computational Symposium on Graph Coloring and its Generalizations**, In D. S. Johnson, A. Mehrotra, M. Trick (Eds.), 75 – 82, COLOR 2002, Ithaca, USA, September 7 – 8, 2002

Chapter of books

- O. Gallay, N. Zufferey, *A Ruin and Recreate Solution Method for a Lexicographic Vehicle Routing Problem Integrating Park-and-Loop and Car Sharing*, Chapter in **Solving Transport Problems: Towards Green Logistics** (Eds. W. Besbes, D. Dhouib, E. Marrekchi), Wiley, 2019, ISBN 978-1-786-30389-9
- N. Zufferey, J. Respen, S. Thevenin, *All-Terrain Tabu Search Approaches for Production Management Problems*, Chapter in **Recent Development of Metaheuristics** (Eds. L. Amodeo, E-G. Talbi, F. Yalaoui), Springer, 2018, ISBN 978-3-319-58252-8
- N. Zufferey, D. Dal Molin, R. Glardon, Ch. Tsagkalidis, *A Simulation-Optimization Approach for the Production of Components for a Pharmaceutical Company*, Chapter in **Handbook of Research on Applied Optimization Methodologies in Manufacturing Systems** (Eds. O. F. Yilmaz, B. Tüfekçi), 2017, ISBN: 978-1-52252-944-6
- N. Zufferey, *Tabu search approaches for two car sequencing problems with smoothing constraints*, Chapter in **Metaheuristics for Production Systems** (Eds. L. Amodeo, E-G. Talbi, F. Yalaoui), Springer, 2016, ISBN: 978-3-31923-349-9
- N. Zufferey, *Graph coloring models and metaheuristics for packing applications*, Chapter in **Optimized Packings and their Applications** (Eds. J. D. Pintér, G. Fasano), Springer Series in Optimization and Its Applications 105, 2015, ISBN: 978-3-319-18898-0
- N. Zufferey, *Models and Methods in Graph Coloration for Various Production Problems*, Chapter 7 in **Metaheuristics for Production Scheduling** (Eds. B. Jarboui, P. Siarry, J. Teghem), Hermès-Lavoisier, France, 2013, ISBN: 978-1-84821-497-2
- N. Zufferey, *Modèles et méthodes de coloration de graphes pour divers problèmes de production*, Chapter 7 in **Métaheuristiques pour l'ordonnancement monocritère des ateliers de production** (Eds. B. Jarboui, P. Siarry, J. Teghem), Hermès-Lavoisier, France, 2013, ISBN : 978-2-74623-926-5
- N. Zufferey, M. Verma, *Tabu Search for an Intermodal Transportation Problem*, Chapter 1 (pp 7 – 20) in **Selected Logistics Problems and Solutions** (Eds. K. Grzybowska and P. Golińska), Publishing House of Poznan University of Technology, Poland, 2011
- Hertz, N. Zufferey, *Vertex Coloring using Ant Colonies*, Chapter in **Artificial Ants** (Eds. N. Monmarché, F. Guinand, P. Siarry), Iste & Wiley, France, 2010 (October), ISBN: 978-1-8482-1194-0
- Hertz, N. Zufferey, *La coloration des sommets d'un graphe par colonies de fourmis*, Chapter 11 (pp 261 – 279) in **Fourmis Artificielles – Tome 1, Des bases algorithmiques aux réalisations avancées** (Eds. N. Monmarché, F. Guinand, P. Siarry), Hermès-Lavoisier, France, 2009 (October), ISBN: 978-2-7462-2119-2

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Conferences with presentation

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2021

- *Integrated Infrastructure & Traffic Optimization*, **3ʳᵈ SGOMI Conference**, Sierre, Switzerland, October 25-26, 2021
- *Local Search for Aircraft-Landing Planning,* **International Conference Optimization and Decision Science**, ODS 2021, Roma, Italy, September 4 – 7, 2021
- *Industrial Production Planning*, **6ᵗʰ St-Luc Operations Management Workshop**, St-Luc, Switzerland, September 6 – 10, 2021
- *Supply Chain Optimization in Companies*, **5ᵗʰ St-Luc Operations Management Workshop**, St-Luc, Switzerland, May 17 – 21, 2021
- *Minimizing Delays in Aircraft-Landing Scheduling,* **17ᵗʰ International Workshop on Project Management and Scheduling**, PMS 2021, Toulouse, France, April 21 – 23, 2021

2020

- *Multi-objective versus Lexicographic Optimization*, **4ᵗʰ St-Luc Operations Management Workshop**, St-Luc, Switzerland, November 10 – 13, 2020
- *Lexicographic Optimization in Practice*, **3ʳᵈ St-Luc Operations Management Workshop**, St-Luc, Switzerland, September 29 – October 2, 2020

2019

- *Real-world optimization*, **2ⁿᵈ St-Luc Operations Management Workshop**, St-Luc, Switzerland, September 10 – 13, 2019
- *Optimization for companies*, **1ˢᵗ St-Luc Operations Management Workshop**, St-Luc, Switzerland, June 3 – 6, 2019

2018

- *Operations Research & Industry*, **IOM Conference 2018**, Zermatt, Switzerland, December 10 – 11, 2018
- *Do ant algorithms really work?* **Operations Research 2018**, OR 2018, Brussels, Belgium, September 12 – 14, 2018
- *Collaborative Agent Teams (CAT): from the Paradigm to Implementation Guidelines*, **8ᵗʰ International Conference on Bioinspired Methods and their Applications**, BIOMA 2018, Paris, France, May 16 – 18, 2018
- *Collaborative Variable Neighborhood Search,* **8ᵗʰ International Conference on Bioinspired Methods and their Applications**, BIOMA 2018, Paris, France, May 16 – 18, 2018
- *Multi-Level Tabu Search for Job Scheduling in a Variable-Resource Environment*, **16ᵗʰ International Workshop on Project Management and Scheduling**, PMS 2018, Rome, Italy, April 17 – 20, 2018
- *Metaheuristics for Industry*, **19ᵗʰ EU/ME Workshop on Metaheuristics for Industry**, EU/ME 2018, Geneva, Switzerland, March 22 – 23, 2018
- *Ants cannot color graphs*, **19ᵗʰ EU/ME Workshop on Metaheuristics for Industry**, EU/ME 2018, Geneva, Switzerland, March 22 – 23, 2018

2017

- *Inventory Deployment with Uncertainty on Production and Lead-Times*, **International Conference on Industrial Engineering and Systems Management**, IESM 2017, Saarbrücken, Germany, October 11 – 13, 2017
- *A Push Shipping-Dispatching Approach for High-Value Items: from Modeling to Sensitivity Analysis*, **International Conference Optimization and Decision Science**, ODS 2017, Sorrento, Italy, September 4 – 7, 2017
- *Energy Consumption vs Economic Profit in Supply Chain Networks*, **18ᵗʰ EU/ME Workshop on Metaheuristics for a Better World**, EU/ME 2017, Roma, Italy, April 3 – 4, 2017

2016

- *Collaborative Agent Teams for a Supply Chain Network Design Problem*, **11ᵗʰ International Meeting on Logistics Research**, Lausanne, Switzerland, September 8 – 9, 2016
- *Local Inventory Management Policies for Optimal Global Performances in a Decentralized Supply Chain*, **11ᵗʰ International Meeting on Logistics Research**, Lausanne, Switzerland, September 8 – 9, 2016

- *Dynamic Multi-Trip Vehicle Routing with Unusual Time-Windows for the Pick-Up of Blood Samples and Delivery of Medical Material*, **5th International Conference on Operations Research and Enterprise Systems**, ICORES 2016, Rome, Italy, February 23 – 25, 2016
- S*MART: Solution Methods with Ants Running by Types*, **18th International Conference on Computational Management Science**, ICCMS 2016, Zurich, Switzerland, January 12 – 13, 2016

2015

- *Multiple Neighborhoods in Tabu Search: Successful Applications in Operations Management*, **4th M-Sphere Conference**, M-SPHERE 2015, Dubrovnik, Croatia, October 22 – 24, 2015
- *Ant Metaheuristics with Adapted Personalities for the Vehicle Routing Problem*, **6th International Conference on Computational Logistics**, ICCL 2015, Delft, Nederland, September 23 – 25, 2015
- *Graph Coloring Tabu Search for Project Scheduling*, **International Conference on Computer Science, Applied Mathematics and Applications**, ICCSAMA 2015, Metz, France, May 11 – 13, 2015
- *Adaptive Memory Algorithm with the Covering Recombination Operator*, **Conference on Modelling, Computation and Optimization in Information Systems and Management Sciences**, MCO 2015, Metz, France, May 11 – 13, 2015

2014

- *Tabu Search with Diversity Control and Simulation for an Inventory Management Problem*, **5th International Conference on Metaheuristics and Nature Inspired Computing**, META 2014, Marrakech, Morocco, October 27 – 31, 2014
- *Enlarging the Paradigm of Ant Algorithms*, **5th International Conference on Metaheuristics and Nature Inspired Computing**, META 2014, Marrakech, Morocco, October 27 – 31, 2014 (**KEYNOTE SPEAKER**)
- *Graph Coloring and Job Scheduling: from Models to Powerful Tabu Search Solution Methods*, **14th International Workshop on Project Management and Scheduling**, PMS 2014, Munich, Germany, March 31 – April 2, 2014
- *Optimization by Unconventional Ant Algorithms*, **3rd International Conference on Operations Research and Enterprise Systems**, ICORES 2014, Angers, France, March 6 – 8, 2014 (**KEYNOTE SPEAKER**)
- *Design and Classification of Ant Metaheuristics,* **22nd Euromicro International Conference on Parallel, Distributed and Network-Based Processing**, PDP 2014, Torino, Italy, February 12 – 14, 2014

2013

- *Ant Decision Systems for Combinatorial Optimization with Binary Constraints*, **The 2013 International Conference on Applied Mathematics and Computational Methods**, AMCM 2013, Venice, Italy, September 28 – 30, 2013 (**KEYNOTE SPEAKER**)
- *Successful Elements for Developing Job-Shop Scheduling Metaheuristics*, **Advances in Business-Related Scientific Research Conference**, ABSRC 2013, Venice, Italy, March 20 – 22, 2013
- *How to Build and Evaluate a Solution Method: an Illustration for the Vehicle Routing Problem*, **International Conference on Econometrics, Operations Research and Statistics**, ICEORS 2013, Zurich, Switzerland, January 14 – 15, 2013

2012

- *Ant Local Search for Combinatorial Optimization*, **7th International Conference on Bio-Inspired Models of Networks, Information and Computing Systems**, BIONETICS 2012, Lugano, Switzerland, December 10 – 12, 2012
- *Dynamic tabu search with simulation for a resource allocation problem within a production environment*, **4th International Conference on Metaheuristics and Nature Inspired Computing**, META 2012, Sousse, Tunisia, October 27 – 31, 2012
- *Ant Local Search for Fuel Supply of Trains in America*, **1st IEEE International Conference on Logistics Operations Management**, LOM 2012, Le Havre, France, October 17 – 19, 2012
- *Consistent Neighborhood Search for Constrained Assignment Problems*, **9th International Conference on Modeling, Optimization & Simulation**, MOSIM 2012, Bordeaux, France, June 6 – 8, 2012
- *Tabu search using variable amplitudes for dimensioning an assembly/disassembly production system*, **13th International Workshop on Project Management and Scheduling**, PMS 2012, Leuven, Belgium, April 1 – 4, 2012

2011

- *A Reconstructive Evolutionary Metaheuristic for the Vertex Coloring Problem*, **23rd Benelux Conference on Artificial Intelligence**, BNAIC 2011, Gent, Belgium, November 3 – 4, 2011.
- *A local search for refueling locomotives*, **54th annual conference of the Administrative Science Association of Canada**, ASAC 2011, Montreal, Canada, July 2 – 5, 2011
- *Online optimization for a vehicle routing problem*, **European Chapter on Combinatorial Optimization**, ECCO XXIV, Amsterdam, Nederland, May 30 – June 1, 2011

2010

- *Tabu search for a project scheduling problem with incompatibility and assignment costs*, **12th International Workshop on Project Management and Scheduling**, PMS 2010, Tours, France, April 26 – 28, 2010
- *Solution methods for a project scheduling problem*, **7th International Colloquium on Graphs and Optimization**, GO VII, Ovronnaz, Switzerland, June 13 – 17, 2010
- *Ants and graph coloring*, **European Chapter on Combinatorial Optimization**, ECCO XXIII, Malaga, Spain, May 27 – 29, 2010

Before 2008

- *Variable space search*, **6th International Colloquium on Graphs and Optimization**, GO VI, Cademario, Switzerland, August 19 – 23, 2007
- *Variable space search for graph coloring*, **The 7th Metaheuristics International Conference,** MIC 2007, Montreal, Canada, June 25 – 29, 2007
- *A solution method based on graph models, linear programming and neighborhood search for a car fleet management problem*, **22nd European Conference on Operational Research**, EURO XXII, Prague, Czech Republic, July 8 – 11, 2007
- *A New Ant Colony Algorithm Graph Coloring*, **Workshop on Nature Inspired Cooperative Strategies for Optimization**, NICSO 2006, Granada, Spain, June 29 – 30, 2006
- *Tabu Search for a Car Sequencing Problem*, **19th International Florida Artificial Intelligence Research Society Conference**, FLAIRS 2006, Melbourne, USA, May 11 – 13, 2006
- *Tabu search for a car fleet management problem with maintenance constraints*, **5th International Colloquium on Graphs and Optimization**, GO V, Leukerbad, Switzerland, August 20 – 24, 2006
- *Inventory Control of Raw Materials under Stochastic and Seasonal Lead Times*, **INFORMS 2004**, Banff, Canada, May 16 – 19, 2004
- *Méthode tabou pour un problème d'affectation de fréquences avec polarisation*, **3e Journées Francophone de Recherche Opérationnelle**, FRANCORO III, Quebec City, Canada, May 9 – 12, 2001
- *An adaptive memory algorithm for a scheduling problem*, **Symposium: New Trends in Scheduling for Parallel and Distributed Systems**, Luminy-Marseille, France, October 1 – 5, 2001
- *Variable neighborhood search for graph coloring*, **European Chapter on Combinatorial Optimization**, ECCO XIII, Capri, Italy, May 18 – 20, 2000
- *Variable neighborhood search for graph coloring*, **4th International Colloquium on Graphs and Optimization**, GO IV, Leukerbad, Switzerland, August, 2000
- *Local search for graph coloring*, **18th Euro Winter Institute**, EWI XVIII, Schwarzsee, Switzerland, March 4 – 18, 2000

Seminars in other institutions

2021

- **International Institute for the Management of Logistics – Paris** (France), *Operations Research and Supply Chain Networks*, December 14, 2021
- **Leclanché** (Yverdon, Switzerland), *Integrated Production Planning and Scheduling*, September 13, 2021
- **EPFL**, *Industrial Supply Chain Management*, April 30, 2021

2020

- **International Institute for the Management of Logistics – Paris** (France), *Reducing the Transportation Costs for Real-Life Problems*, December 7, 2020
- **Dootix** (Bulle, Switzerland), *Hierarchical Optimization Opportunities in Practice*, Switzerland, October 15, 2020
- **Champ-Dollon** (Genève, Switzerland), *Lexicographic Optimization: from Business to Consumer Priorities*, September 8, 2020
- **Dixi Polytool** (Le Locle, Switzerland), *Integrated Optimization*. January 29, 2020

2019

- **Medtronic**, Tolochenaz (Switzerland), *Integrated Logistics*, December 18, 2019
- **International Institute for the Management of Logistics – Paris** (France), *Some operations research problems arising in car manufacturing*, December 3, 2019
- **Swiss-Tube LN Industries**, Champagne (Switzerland), *Integrated Supply Chain Management*, October 14, 2019
- **CIRRELT – University of Montreal** (Canada), *Integrated logistics for smoothing supply-chain variations*, August 8, 2019
- **GERAD-CIRRELT** (Montreal, Canada), *Lexicographic or Multi-objective Optimization in Practice?* August 6, 2019
- **University Laval** (Quebec City, Canada), Faculty of Sciences and Engineering, *How to Prioritize Different Objective Functions in Practice?* July 31, 2019
- **University Laval** (Quebec City, Canada), Faculty of Sciences and Engineering, *Lexicographic Optimization for Industrial Problems*, July 30, 2019
- **GERAD – Montreal** (Canada), *Learning Variable Neighborhood Search for a Job Scheduling Problem*, June 21, 2019
- **Alliance** (Innovation Park, Lausanne, Switzerland), *Operations Research & Integrated Production Planning*, April 29, 2019
- **CFF** (Olten, Switzerland), *Operations Research & Transportation*, January 23, 2019

2018

- **International Institute for the Management of Logistics – Paris** (France), *Design of Operations Research Projects for Industry*, December 4, 2018
- **CIRRELT – University of Montreal** (Canada), *Various industrial optimization problems*, August 8, 2018
- **University Laval** (Quebec City, Canada), Faculty of Sciences and Engineering, *Optimization in Practice*, July 18, 2018
- **University Laval** (Quebec City, Canada), Faculty of Business Administration, *Operations Research & Automotive Industry*, July 17, 2018
- **ProcSim** (Lausanne, Switzerland), *Multi-Trip Vehicle Routing with Online Diversion Opportunities*, June 21, 2018
- **EPFL**, *Operations Research and Managerial Implications*, May 1, 2018
- **EPFL**, *Design and Phases of an Optimization Project*, January 31, 2018
- **ProcSim & Nestlé** (Lausanne, Switzerland), *Key Steps in Operations Research*, January 24, 2018

2017

- **International Institute for the Management of Logistics – Paris** (France), *Integrated Scheduling*, December 5, 2017
- **CIRRELT – University of Montreal** (Canada), *Tabu Search with Diversity Control for an Inventory Management Problem with Stochastic Lead Times*, August 3, 2017
- **University Laval** (Quebec City, Canada), Faculty of Business Administration, *Inventory dispatching of luxury watches with production and lead-times uncertainties*, July 5, 2017

- **University Laval** (Quebec City, Canada), Faculty of Sciences and Engineering, *Guidelines to efficiently build an academic career from a PhD position*, July 4, 2017
- **GERAD – Montreal** (Canada), *A Deconstruction-Reconstruction Metaheuristic and its Application in Graph Coloring and Job Scheduling*, June 26, 2017
- **EPFL**, *Integrated Production Planning*, May 2, 2017
- **Politecnico di Milano** (Italy), *Online Vehicle Routing Management*, January 18, 2017

2016

- **Renault R&D – Paris** (France), *Models and Methods for the Production of Car Wirings*, December 6, 2016
- **International Institute for the Management of Logistics – Paris** (France), *Shipping with Uncertainty*, December 6, 2016
- **CIRRELT – University of Montreal**, *Impact of Online Tracking on Vehicle Routing with Dynamic Travel Times: An Application in the Pick-Up of Blood Samples*, August 4, 2016
- **University Laval** (Quebec City, Canada), Faculty of Sciences and Engineering, *Operations Research in Industry*, July 21, 2016
- **University Laval** (Quebec City, Canada), Faculty of Business Administration, *Solution methods for centralized production planning in an international company*, July 20, 2016
- **EPFL**, *Inventory Deployment with Dispatching Perturbations*, May 10, 2016
- **University of Grenoble – INP** (France), *Planning and Simulation of Inventory Deployment for Luxury Watches*, April 7, 2016
- **Synthelis**, Grenoble (France), *Operations Research in Practice*, April 6, 2016

2015

- **Renault R&D – Paris** (France), *Heuristics for a car production problem*, December 8, 2015
- **International Institute for the Management of Logistics – Paris** (France), *Tabu Search for a Satellite Scheduling Problem*, December 7, 2015
- **CIRRELT – University of Montreal**, *Inventory deployment in the context of a luxury watch facing perturbations at different supply chain levels*, August 5, 2015
- **GERAD – Montreal** (Canada), *Local search techniques for a short-term production planning problem proposed by an international fast moving consumer goods company*, June 30, 2015
- **University of Grenoble – INP** (France), *Diversion opportunities in vehicle routing with variable travel times and online positioning*, May 21, 2015
- **EPFL**, *Job Scheduling and Graph Models*, May 5, 2015
- **Procter & Gamble** (Geneva, Switzerland), *Modeling Concurrent Production Planning and Scheduling*, April 15, 2015
- **Technical University of Denmark** (Copenhagen, Denmark), *Vehicle Routing Optimization with Dynamic Travel Times and Online Tracking*, April 9, 2015

2014

- **Audemars Piguet** (Le Brassus, Switzerland), *An integrated approach for inventory deployment of luxury watches*, December 17, 2014
- **Politecnico di Milano** (Italy), *Metaheuristics for Truck Loading in the Car Production Industry*, December 15, 2014
- **Procter & Gamble** (Geneva, Switzerland), *An integrated approach to production planning and scheduling*, December 3, 2014
- **International Institute for the Management of Logistics – Paris** (France), *Graph Coloring Tools for Scheduling Production*, December 2, 2014
- **GERAD – Montreal** (Canada), *Exact and solution methods for a car sequencing problem*, August 7, 2013
- **CIRRELT – University of Montreal**, *Unconventional Ant Metaheuristics for Combinatorial Optimization*, June 26, 2014
- **EPFL**, *Consistent Neighborhood Search for a Multi-Resource Range Scheduling Problem*, May 6, 2014
- **Procter & Gamble** (Geneva, Switzerland), *Linear Programming for Logistics*, February 20, 2014

2013

- **International Institute for the Management of Logistics – Paris** (France), *Tabu Search for Scheduling Cars on a Single Production Line*, October 22, 2013
- **GERAD – Montreal** (Canada), *Metaheuristics for a truck loading problem proposed by the car manufacturer Renault*, August 6, 2013

- **Faculty of Business Administration – University Laval** (Quebec City, Canada), *Guidelines to efficiently build an academic career from a PhD position*, July 10, 2013
- **FORAC Research Center** (Quebec City, Canada), *Gestion de stock lorsque les temps de livraison sont aléatoires et dont la distribution varie selon la saison*, July 10, 2013
- **University of Montreal** (Canada), *A Learning Tabu Search Combined with a Flow Algorithm for a Location-Distribution Problem in a Railway Network*, June 26, 2013
- **Procter & Gamble** (Geneva, Switzerland), *Modeling and Solving Logistic Problems with Linear Programming Tools*, June 14, 2013
- **University of Lille** (France), *Learning Tabu Search for Combinatorial Optimization*, May 28, 2013

2012

- **Renault R&D – Paris** (France), *Solution methods for a constrained truck loading problem*, October 23, 2012
- **GERAD – Montreal** (Canada), *Consistent Neighborhood Search for Assignment Problems with Incompatibility Constraints*, August 7, 2012
- **University Laval** (Quebec City, Canada), *Algorithmes de recherche locale et méthodes évolutives pour un problème d'ordonnancement de tâches avec coûts de réglages, pénalités de retards et coûts d'abandon*, July 4, 2012

2011

- **University Laval** (Quebec City, Canada), *Gestion de l'approvisionnement énergétique d'une flotte de locomotives dans un réseau ferroviaire nord-américain*, July 7, 2011
- **Politecnico di Milano** (Italy), *A heuristic for tank refueling over a railway network*, February 8, 2011

2010

- **EDF – Paris** (France), *Algorithme tabou et son application à des problèmes de production, gestion de stocks et ordonnancement*, October 12, 2010
- **CIRRELT – University Laval** (Quebec City, Canada), *Heuristiques pour un problème de gestion de projet avec coûts d'incompatibilités et d'affectations*, June 29, 2010

2009

- **Alès School of Mines** (France), *Méta-heuristiques récentes et leur adaptation au problème de la coloration de graphes*, December 2, 2009
- **Columbia University** (New York, USA), *Consistent neighborhood in a tabu search and its success in various combinatorial optimization problems*, July 10, 2009
- **University Laval** (Quebec City, Canada), *Recent developments in metaheuristics for combinatorial optimization*, June 25, 2009

2008

- **University Laval** (Quebec City, Canada), *Heuristiques pour un problème d'ordonnancement de tâches sur satellites*, July 17, 2008
- **EPFL**, *Variable Space Search, Ant Local Search, and Graph Coloring*, April 18, 2008

Before 2008

- **EPFL**, *Graph Coloring Approaches for a Satellite Range Scheduling Problem*, November, 2006
- **EPFL**, *Inventory Control of Raw Material Under Stochastic and Seasonal Lead Time*, November 30, 2005
- **EPFL**, *Heuristique tabou pour un problème d'ordonnancement de la production de voitures*, December 2, 2004
- **GERAD – École Polytechnique de Montréal** (Canada), *Le problème de la coloration des sommets d'un graphe : analyse des principales méthodes et proposition d'une nouvelle heuristique tabou agissant dans un espace des solutions original*, April, 2003
- **University of Liege (Belgium)**, *Aperçu et analyse des principales heuristiques pour la coloration des sommets d'un graphe*, February 7, 2002