

## CURRICULUM VITAE

### JEAN-FRANÇOIS CORDEAU

#### Personal information

*Occupation:* Full Professor and Chair in Logistics and Transportation, HEC Montréal  
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#### Education

1996-99 Ph.D., Applied Mathematics, École Polytechnique de Montréal  
1994-95 M.Sc., Operational Research, HEC Montréal  
1993-94 Certificate, Computer Science, Université de Montréal  
1990-92 B.B.A., Quantitative Methods, HEC Montréal

#### Employment

2008- Full Professor, HEC Montréal  
2003-2008 Associate Professor, HEC Montréal  
1999-2003 Assistant Professor, HEC Montréal

#### Administrative duties

2017- Member of the Scientific Committee, Institut de valorisation des données de Montréal (IVADO)  
2016- Chairholder, Chair in Logistics and Transportation, HEC Montréal  
2016- Member of the Executive Committee, Interuniversity Research Center on Enterprise Networks, Logistics and Transportation (CIRRELT)  
2010- Member of the Research Council, HEC Montréal  
2008-2013 Deputy Director, Interuniversity Research Center on Enterprise Networks, Logistics and Transportation (CIRRELT)  
2006-2016 Chairholder, Canada Research Chair in Logistics and Transportation, HEC Montréal  
2001-2006 Associate, Canada Research Chair in Distribution Management, HEC Montréal  
2000- Academic Advisor, M.Sc. in Global Supply Chain Management, HEC Montréal

## Prizes and distinctions

- Award of Merit, Canadian Operational Research Society, 2016.
- Member of the College of New Scholars, Artists and Scientists of the Royal Society of Canada, 2014-2021.
- Best Paper Award Runner-up (with M.-È. Rancourt, G. Laporte and B. Watkins), Production and Operations Management Society, College of Humanitarian & Crisis Management, « Tactical Network Planning for Food Aid Distribution in Kenya », 2013.
- First Prize (with S. Bisailon, G. Laporte and F. Pasin), Challenge ROADEF, La gestion des perturbations dans le domaine aérien, 2009
- Tow Lecturer, Henry B. Tippie College of Business, University of Iowa, 2008
- Second Prize (with G. Laporte, F. Pasin and S. Ropke), Challenge ROADEF, Planification des techniciens et des interventions pour les télécommunications, 2007
- Prix Chenelière Éducation / Gaëtan-Morin, HEC Montréal, 2006
- Second Prize (with B. Jaumard and R. Morales), International Timetabling Competition, Metaheuristics Networks, 2003
- Second Prize (with G. Laporte), Challenge ROADEF, Gestion de la mission de satellites d'observation de la Terre, 2003
- Prix Jeune Chercheur, HEC Montréal, 2002

## Grants

- NSERC, Discovery grant – individual, “Logistics and transportation”, 225 000 \$, 2014-2019.
- NSERC, Discovery grant – accelerator supplement, “Logistics and transportation”, 120 000 \$, 2014-2017.
- FRQNT, Projet de recherche en équipe, “Méthodes d’optimisation appliquées à la planification intégrée de la production et de la distribution”, J.-F. Cordeau, G. Laporte, R. Jans, 117 000 \$, 2013-2016.
- Canada Research Chair in Logistics and Transportation, 500 000 \$, 2011-2016.
- CFI, Leaders Opportunity Fund, “Computer Facilities for Modelling and Optimization in Logistics and Transportation”, 466 473 \$, 2011.
- NSERC, Discovery grant – individual, “Logistics and transportation”, 200 000 \$, 2009-2014.
- MITACS, “Optimisation du transport et de la logistique dans le secteur forestier”, B. Gendron, J.-F. Cordeau, S. D’Amours, J.A. Ferland, J.-M. Frayret, M. Gendreau, L. Lebel, G. Pesant, L.-M. Rousseau, 127 000 \$, 2009-2010.
- FQRNT, Projet de recherche en équipe, G. Laporte, J.-F. Cordeau, 136 080 \$, 2008-2011.
- Canada Research Chair in Logistics and Transportation, 500 000 \$, 2006-2011.
- MITACS, “Optimisation du transport multimodal dans le secteur forestier”, B. Gendron, J.-F. Cordeau, S. D’Amours, J. Ferland, M. Gendreau, L.M. Rousseau, 40 000 \$, 2006-2008.
- NSERC/Kronos Altitude, Collaborative Research and Development, “Logiciel d’optimisation utilisant l’agrégation de contraintes”, F. Soumis, J.-F. Cordeau, G. Desaulniers, J. Desrosiers, M. Gamache, A. Hertz, P. Galinier, 383 307 \$, 2006-2008.
- NSERC, Discovery grant – individual, “Logistics and transportation”, 110 000 \$, 2004-2009.
- FQRNT, Établissement de nouveaux chercheurs, “Planification intégrée en logistique et en transport”, 45 000 \$, 2003-2006.
- FQRNT, Établissement de nouveaux chercheurs – équipement, 18 000 \$, 2003-2004.

- NSERC/AD OPT Technologies, Collaborative Research and Development, “Optimisation d’horaires d’employés travaillant sur des quarts”, F. Soumis, J.-F. Cordeau, G. Desaulniers, A. Hertz, 470 000 \$, 2003-2006.
- FCAR, Soutien aux équipes de recherche, “Méthodes d’optimisation appliquées à la gestion des transports”, G. Laporte, J.-F. Cordeau, M. Gendreau, J.-Y. Potvin, 264 000 \$, 2001-2004.
- FCAR, Soutien aux équipes de recherche – équipement, 25 000 \$, 2001-2002.
- NSERC, Individual Research Grant, “Méthodes de décomposition pour la planification intégrée en logistique et en transport”, 71 140 \$, 2000-2003.
- NSERC/AD OPT Technologies, Collaborative Research and Development, “Méthodes d’optimisation pour l’affectation des activités aux employés”, F. Soumis, J.-F. Cordeau, G. Desaulniers, 139 000 \$, 1999-2001.

### Papers in refereed scientific journals

1. Jena, S.D., Cordeau, J.-F., Gendron, B., « Lagrangian Heuristics for Large-Scale Dynamic Facility Location with Generalized Modular Capacities », *INFORMS Journal on Computing* 29, 388-404, 2017.
2. Parragh, S.N., Cordeau, J.-F., « Branch-and-Price and Adaptive Large Neighborhood Search for the Truck and Trailer Routing Problem with Time Windows », *Computers & Operations Research* 83, 28-44, 2017.
3. Gullhav, A.N., Cordeau, J.-F., Hvattum, L.M., Nygreen, B., « Adaptive Large Neighborhood Search Heuristics for Multi-tier Deployment Problems in Clouds », *European Journal of Operational Research* 259, 829-846, 2017.
4. Beezão, A.C., Cordeau, J.-F., Laporte, G., Yanasse, H.H., « Scheduling Identical Parallel Machines with Tooling Constraints », *European Journal of Operational Research* 257, 834-844, 2017.
5. Solyali, O., Cordeau, J.-F., Laporte, G., “The Impact of Modeling on Robust Inventory Management under Demand Uncertainty”, *Management Science* 62, 1188-1201, 2016.
6. Jena, S.D., Cordeau, J.-F., Gendron, B., “Solving a Dynamic Facility Location Problem with Partial Closing and Reopening”, *Computers & Operations Research* 67, 143-154, 2016.
7. Sinclair, K., Cordeau, J.-F., Laporte, G., “A Column Generation Post-Optimization Heuristic for the Integrated Aircraft and Passenger Recovery Problem”, *Computers & Operations Research* 65, 42-52, 2016.
8. Moreira, M.C.O., Cordeau, J.-F., Costa, A.M., Laporte, G., “Robust Assembly Line Balancing with Heterogeneous Workers”, *Computers & Industrial Engineering* 88, 254-263, 2015.
9. Adulyasak, Y., Cordeau, J.-F., Jans, R., “Benders Decomposition for Production Routing Under Demand Uncertainty”, *Operations Research* 63, 851-867, 2015.
10. Martins de Sá, E., Contreras, I., Cordeau, J.-F., de Camargo, R.S., de Miranda, G., “The Hub Line Location Problem”, *Transportation Science* 49, 500-518, 2015.
11. Jena, S.D., Cordeau, J.-F., Gendron, B., “Dynamic Facility Location with Generalized Modular Capacities”, *Transportation Science* 49, 484-499, 2015.
12. Jena, S.D., Cordeau, J.-F., Gendron, B., “Modeling and Solving a Logging Camp Location Problem”, *Annals of Operations Research* 232, 151-177, 2015.
13. Martins de Sá, E., Contreras, I., Cordeau, J.-F., “Exact and Heuristic Algorithms for the Design of Hub Networks with Multiple Lines”, *European Journal of Operational Research* 246, 186-198, 2015.
14. Cordeau, J.-F., Dell’Amico, M., Falavigna, S., Iori, M., “A Rolling Horizon Algorithm for Auto-Carrier Transportation”, *Transportation Research Part B* 76, 68-80, 2015.
15. Rancourt, M.-E., Cordeau, J.-F., Laporte, G., Watkins, B., “Tactical Network Planning for Food Aid Distribution in Kenya”, *Computers & Operations Research* 56, 68-83, 2015.
16. Cordeau, J.-F., Laganà, D., Musmanno, R., Vocaturro, F., “A Decomposition-Based Heuristic for a Multiple-Product Inventory Routing Problem”, *Computers & Operations Research* 55, 153-166, 2015.

17. Adulyasak, Y., Cordeau, J.-F., Jans, R., “The Production Routing Problem: A Review of Formulations and Solution Algorithms”, *Computers & Operations Research* 55, 141-152, 2015.
18. Cordeau, J.F., Legato, P., Mazza, R.M., Trunfio, R., “Simulation-Based Optimization for Housekeeping in a Container Transshipment Terminal”, *Computers & Operations Research* 53, 81-95, 2015.
19. Thiongane, B., Cordeau, J.-F., Gendron, B., “Formulations for the Nonbifurcated Hop-Constrained Multicommodity Capacitated Fixed-Charge Network Design Problem”, *Computers & Operations Research* 53, 1-8, 2015.
20. Coelho, L.C., Cordeau, J.-F., Laporte, G., “Heuristics for Dynamic and Stochastic Inventory-Routing”, *Computers & Operations Research* 52, 55-67, 2014.
21. Muter, I., Cordeau, J.-F., Laporte, G., “A Branch-and-Price Algorithm for the Multidepot Vehicle Routing Problem with Interdepot Routes”, *Transportation Science* 48, 425-441, 2014.
22. Contardo, C., Cordeau, J.-F., Gendron, B., “A GRASP + ILP-based Metaheuristic for the Capacitated Location-Routing Problem”, *Journal of Heuristics* 20, 1-28, 2014.
23. Contardo, C., Cordeau, J.-F., Gendron, B. “An Exact Method Based on Cut-and-Column Generation for the Capacitated Location-Routing Problem”, *INFORMS Journal on Computing* 26, 88-102, 2014.
24. Adulyasak, Y., Cordeau, J.-F., Jans, R., “Formulations and Branch-and-Cut Algorithms for Multivehicle Production and Inventory Routing Problems”, *INFORMS Journal on Computing* 26, 103-120, 2014.
25. Coelho, L., Cordeau, J.-F., Laporte, G., “Thirty Years of Inventory Routing”, *Transportation Science* 48, 1-19, 2014.
26. Adulyasak, Y., Cordeau, J.-F., Jans, R., “Optimization-Based Adaptive Large Neighborhood Search for the Production Routing Problem”, *Transportation Science* 48, 20-45, 2014.
27. Cordeau, J.-F., Ghiani, G., Guerriero, E., “Analysis and Branch-and-Cut Algorithm for the Time-Dependent Traveling Salesman Problem”, *Transportation Science* 48, 46-58, 2014.
28. Sinclair, K., Cordeau, J.-F., Laporte, G., “Improvements to a Large Neighbourhood Search Heuristic for an Integrated Aircraft and Passenger Recovery Problem”, *European Journal of Operational Research* 233, 234-245, 2014.
29. Contardo, C., Cordeau, J.-F., Gendron, B. “A Computational Comparison of Flow Formulations for the Capacitated Location-Routing Problem”, *Discrete Optimization* 10, 263-295, 2013.
30. Alba Martinez, M.A., Cordeau, J.-F., Dell'Amico, M., Iori, M., “A Branch-and-Cut Algorithm for the Double Traveling Salesman Problem with Multiple Stacks”, *INFORMS Journal on Computing* 25, 41-55, 2013.
31. Paquette, J., Cordeau, J.-F., Laporte, G., Pascoal, M.M.B. “Combining Multicriteria Analysis and Tabu Search for Dial-a-Ride Problems”, *Transportation Research Part B* 52, 1-16, 2013.
32. Bartolini, E., Cordeau, J.-F., Laporte, G., “An Exact Algorithm for the Capacitated Arc Routing Problem with Deadheading Demand”, *Operations Research* 61, 315-327, 2013.
33. Rancourt, M.-E., Cordeau, J.-F., Laporte, G., “Long-haul Vehicle Routing and Scheduling with Working Hour Rules”, *Transportation Science* 47, 81-107, 2013.
34. Bartolini, E., Cordeau, J.-F., Laporte, G., “Improved Lower Bounds and Exact Algorithm for the Capacitated Arc Routing Problem”, *Mathematical Programming Series A* 137, 409-452, 2013.
35. Tirado, G., Hvattum, L.M., Fagerholt, K., Cordeau, J.-F., “Heuristics for Dynamic and Stochastic Routing in Industrial Shipping”, *Computers & Operations Research* 40, 253-263, 2013.
36. Contreras, I., Cordeau, J.-F., Laporte, G., "Exact Solution of Large-Scale Hub Location Problems with Multiple Capacity Levels", *Transportation Science* 46, 439-459, 2012.
37. Solyali, O., Cordeau, J.-F., Laporte, G., “Robust Inventory Routing under Demand Uncertainty”, *Transportation Science* 46, 327-340, 2012.
38. Berbeglia, G., Cordeau, J.-F., Laporte, G., “A Hybrid Tabu Search and Constraint Programming Algorithm for the Dynamic Dial-a-Ride Problem”, *INFORMS Journal on Computing* 24, 343-355, 2012.
39. Parragh, S.N., Cordeau, J.-F., Doerner, K.F., Hartl, R.F., “Models and Algorithms for the Heterogeneous Dial-a-Ride Problem with Driver Related Constraints”, *OR Spectrum* 34, 593-633, 2012.

40. Stalhane, M., Andersson, H., Christiansen, M., Cordeau, J.-F., Desaulniers, G., “A Branch-Price-and-Cut Method for a Ship Routing and Scheduling Problem with Split Loads”, *Computers & Operations Research* 39, 3361-3375, 2012.
41. Hemmelmayr, V.C., Cordeau, J.-F., Crainic, T.G., “An Adaptive Large Neighborhood Search Heuristic for Two-Echelon Vehicle Routing Problems Arising in City Logistics”, *Computers & Operations Research* 39, 3215-3228, 2012.
42. Coelho, L.C., Cordeau, J.-F., Laporte, G., “Consistency in Multi-Vehicle Inventory-Routing”, *Transportation Research Part C* 24, 270-287, 2012.
43. Costa, A.M., Cordeau, J.-F., Gendron, B., Laporte, G., “Accelerating Benders Decomposition with Heuristic Master Problem Solutions”, *Pesquisa Operacional* 32, 3-19, 2012.
44. Paquette, J., Bellavance, F., Cordeau, J.-F., Laporte, G., “Measuring Quality of Service in Dial-a-Ride Operations: The Case of a Canadian City”, *Transportation* 39, 539-564, 2012.
45. Coelho, L.C., Cordeau, J.-F., Laporte, G., “The Inventory-Routing Problem with Transshipment”, *Computers & Operations Research* 39, 2537-2548, 2012.
46. Cordeau, J.-F., Maischberger, M., “A Parallel Iterated Tabu Search Heuristic for Vehicle Routing Problems”, *Computers & Operations Research* 39, 2033-2050, 2012.
47. Moccia, L., Cordeau, J.-F., Laporte, G., “An Incremental Tabu Search Heuristic for the Generalized Vehicle Routing Problem with Time Windows”, *Journal of the Operational Research Society* 63, 232-244, 2012.
48. Crevier, B., Cordeau, J.-F., Savard, G., “Integrated Operations Planning and Revenue Management for Rail Freight Transportation”, *Transportation Research Part B* 46, 100-119, 2012.
49. Contreras, I., Cordeau, J.-F., Laporte, G., “Benders Decomposition for Large-Scale Uncapacitated Hub Location”, *Operations Research* 59, 1477-1490, 2011.
50. Perugia, A., Moccia, L., Cordeau, J.-F., Laporte, G., “Designing a Home-to-Work Bus Service in a Metropolitan Area”, *Transportation Research Part B* 45, 1710-1726, 2011.
51. Cordeau, J.-F., Laporte, G., Moccia, L., Sorrentino, G., “Optimizing Yard Assignment in an Automotive Transshipment Terminal”, *European Journal of Operational Research* 215, 149-160, 2011.
52. Bisailon, S., Cordeau, J.-F., Laporte, G., Pasin, F., “A Large Neighbourhood Search Heuristic for the Aircraft and Passenger Recovery Problem”, *4OR* 9, 139-157, 2011.
53. Contreras, I., Cordeau, J.-F., Laporte, G., “Stochastic Uncapacitated Hub Location”, *European Journal of Operational Research* 212, 518-528, 2011.
54. Heilporn, G., Cordeau, J.-F., Laporte, G., “An Integer L-Shaped Algorithm for the Dial-a-Ride Problem with Stochastic Customer Delays”, *Discrete Applied Mathematics* 159, 883-895, 2011.
55. Contreras, I., Cordeau, J.-F., Laporte, G., “The Dynamic Uncapacitated Hub Location Problem”, *Transportation Science* 45, 18-32, 2011.
56. Moccia, L., Cordeau, J.-F., Laporte, G., Ropke, S., Valentini, M.P., “Modeling and Solving a Multimodal Routing Problem with Flexible-Time and Scheduled Services”, *Networks* 57, 53-68, 2011.
57. Erdogan, G., Cordeau, J.-F., Laporte, G., “A Branch-and-Cut Algorithm for Solving the Non-Preemptive Capacitated Swapping Problem”, *Discrete Applied Mathematics* 158, 1599-1614, 2010.
58. Cordeau, J.-F., Laporte, G., Pasin, F., Ropke, S., “Scheduling Technicians and Tasks in a Telecommunications Company”, *Journal of Scheduling* 13, 393-409, 2010.
59. Heilporn, G., Cordeau, J.-F., Laporte, G., “The Delivery Man Problem with Time Windows”, *Discrete Optimization* 7, 269-282, 2010.
60. Wen, M., Cordeau, J.-F., Laporte, G., Larsen, J., “The Dynamic Multi-Period Vehicle Routing Problem”, *Computers & Operations Research* 37, 1615-1623, 2010.
61. Rekik, M., Cordeau, J.-F., Soumis, F., “Implicit Shift Scheduling with Multiple Breaks and Work Stretch Duration Restrictions”, *Journal of Scheduling* 13, 49-75, 2010.
62. Cordeau, J.-F., Iori, M., Laporte, G., Salazar-González, J.-J., “A Branch-and-Cut Algorithm for the Pickup and Delivery Traveling Salesman Problem with LIFO Loading”, *Networks* 55, 46-59, 2010.

63. Cordeau, J.-F., Dell'Amico, M., Iori, M., "Branch-and-Cut for the Pickup and Delivery Traveling Salesman Problem with FIFO Loading", *Computers & Operations Research* 37, 970-980, 2010.
64. Erdogan, G., Cordeau, J.-F., Laporte, G., "The Attractive Traveling Salesman Problem", *European Journal of Operational Research* 203, 59-69, 2010.
65. Berbeglia, G., Cordeau, J.-F., Laporte, G., "Dynamic Pickup and Delivery Problems", *European Journal of Operational Research* 202, 8-15, 2010.
66. Dumitrescu, I., Ropke, S., Cordeau, J.-F., Laporte, G., "The Traveling Salesman Problem with Pickup and Delivery: Polyhedral Results and a Branch-and-Cut Algorithm", *Mathematical Programming Series A* 121, 269-305, 2010.
67. Chan, T., Cordeau, J.-F., Laporte, G., "Locating Satellite Yards in Forestry Operations", *INFOR* 47, 223-234, 2009.
68. Wen, M., Larsen, J., Clausen, J., Cordeau, J.-F., Laporte, G., "Vehicle Routing with Cross-Docking", *Journal of the Operational Research Society* 60, 1708-1718, 2009.
69. Ropke, S., Cordeau, J.-F., "Branch-and-Cut-and-Price for the Pickup and Delivery Problem with Time Windows", *Transportation Science* 43, 267-286, 2009.
70. Rei, W., Cordeau, J.-F., Gendreau, M., Soriano, P., "Accelerating Benders Decomposition by Local Branching", *INFORMS Journal on Computing* 21, 333-345, 2009.
71. Paquette, J., Cordeau, J.-F., Laporte, G., "Quality of Service in Dial-a-ride Operations", *Computers & Industrial Engineering* 56, 1721-1734, 2009.
72. Costa, A.M., Cordeau, J.-F., Gendron, B., "Benders, Metric and Cutset Inequalities for Multicommodity Capacitated Network Design", *Computational Optimization and Applications* 42, 371-392, 2009.
73. Moccia, L., Cordeau, J.-F., Monaco, M.F., Sammarra, M., "Formulations and Solution Algorithms for a Dynamic Generalized Assignment Problem", *Computers & Operations Research* 36, 2670-2681, 2009.
74. Costa, A.M., Cordeau, J.-F., Laporte, G., "Models and Branch-and-Cut Algorithms for the Steiner Tree Problem with Revenues, Budget and Hop Constraints", *Networks* 53, 141-159, 2009.
75. Stecco, G., Cordeau, J.-F., Moretti, E., "A Tabu Search Heuristic for a Sequence-Dependent and Time-Dependent Scheduling Problem on a Single Machine", *Journal of Scheduling* 12, 3-16, 2009.
76. Erdogan, G., Cordeau, J.-F., Laporte, G., "The Pickup and Delivery Traveling Salesman Problem with First-In-First-Out Loading", *Computers & Operations Research* 36, 1800-1808, 2009.
77. Bektas, T., Cordeau, J.-F., Erkut, E., Laporte, G., "A Two-Level Simulated Annealing Algorithm for Efficient Dissemination of Electronic Content", *Journal of the Operational Research Society* 59, 1557-1567, 2008.
78. Cordeau, J.-F., Laporte, G., Pasin, F., "Iterated Tabu Search for the Car Sequencing Problem", *European Journal of Operational Research* 191, 945-956, 2008.
79. Rekik, M., Cordeau, J.-F., Soumis, F., "Solution Approaches to Large Shift Scheduling Problems", *RAIRO—Operations Research* 42, 229-258, 2008.
80. Cordeau, J.-F., Laporte, G., Pasin, F., "An Iterated Local Search Heuristic for the Logistics Network Design Problem with Single Assignment", *International Journal of Production Economics* 113, 626-640, 2008.
81. Oncan, T., Cordeau, J.-F., Laporte, G., "A Tabu Search Heuristic for the Generalized Minimum Spanning Tree Problem", *European Journal of Operational Research* 191, 306-319, 2008.
82. Bektas, T., Cordeau, J.-F., Erkut, E., Laporte, G., "Exact Algorithms for the Joint Object Placement and Request Routing Problem in Content Distribution Networks", *Computers & Operations Research* 35, 3860-3884, 2008.
83. Costa, A.M., Cordeau, J.-F., Laporte, G., "Fast Heuristics for the Steiner Tree Problem with Revenues, Budget and Hop Constraints", *European Journal of Operational Research*, 190, 68-78, 2008.
84. Stecco, G., Cordeau, J.-F., Moretti, E., "A Branch-and-Cut Algorithm for a Production Scheduling Problem with Sequence-Dependent and Time-Dependent Setup Times", *Computers & Operations Research* 35, 2635-2655, 2008.

85. Carrabs, F., Cerulli, R., Cordeau, J.-F., “An Additive Branch-and-Bound Algorithm for the Pickup and Delivery Traveling Salesman Problem with LIFO or FIFO Loading”, *INFOR* 45, 223-238, 2007.
86. Dubuc, G., Bektas, T., Cordeau, J.-F., Laporte, G., “Une heuristique de recherche avec tabous pour la conception de réseaux de distribution de contenu électronique”, *INFOR* 45, 175-195, 2007.
87. Paquette, J., Cordeau, J.-F., Laporte, G., “Étude comparative de divers modèles pour le problème de transport à la demande”, *INFOR* 45, 95-110, 2007.
88. Gingras, C., Cordeau, J.-F., Laporte, G., “Un algorithme de minimisation du transport à vide appliqué à l'industrie forestière”, *INFOR* 45, 41-47, 2007.
89. Carrabs, F., Cordeau, J.-F., Laporte, G., “Variable Neighbourhood Search for the Pickup and Delivery Traveling Salesman Problem with LIFO Loading”, *INFORMS Journal on Computing* 19, 618-632, 2007.
90. Sammarra, M., Cordeau, J.-F., Laporte, G., Monaco, M.F., “A Tabu Search Heuristic for the Quay Crane Scheduling Problem”, *Journal of Scheduling* 10, 327-336, 2007.
91. Cordeau, J.-F., Laporte, G., “The Dial-a-Ride Problem: Models and Algorithms”, *Annals of Operations Research* 153, 29-46, 2007.
92. Berbeglia, G., Cordeau, J.-F., Gribkovskaia, I., Laporte, G., “Static Pickup and Delivery Problems: A Classification Scheme and Survey”, *TOP* 15, 1-31, 2007.
93. Ropke, S., Cordeau, J.-F., Laporte, G., “Models and a Branch-and-Cut Algorithm for Pickup and Delivery Problems with Time Windows”, *Networks* 49, 258-272, 2007.
94. Bianchessi, N., Cordeau, J.-F., Desrosiers, J., Laporte, G., Raymond, V., “A Heuristic for the Multi-Satellite, Multi-Orbit and Multi-User Management of Earth Observation Satellites”, *European Journal of Operational Research* 177, 750-762, 2007.
95. Cordeau, J.-F., Gaudioso, M., Laporte, G., Moccia, L., “The Service Allocation Problem at the Gioia Tauro Maritime Terminal”, *European Journal of Operational Research* 176, 1167-1184, 2007.
96. Crevier, B., Cordeau, J.-F., Laporte, G., “The Multi-Depot Vehicle Routing Problem with Inter-Depot Routes”, *European Journal of Operational Research* 176, 756-773, 2007.
97. Cordeau, J.-F., Gaudioso, M., Laporte, G., Moccia, L., “A Memetic Heuristic for the Generalized Quadratic Assignment Problem”, *INFORMS Journal on Computing* 18, 433-443, 2006.
98. Cordeau, J.-F., Pasin, F., Solomon, M.M., “An Integrated Model for Logistics Network Design”, *Annals of Operations Research* 144, 59-82, 2006.
99. Costa, A.M., Cordeau, J.-F., Laporte, G., “Steiner Tree Problems with Profits”, *INFOR* 44, 99-115, 2006.
100. Cordeau, J.-F., “A Branch-and-Cut Algorithm for the Dial-a-Ride Problem”, *Operations Research* 54, 573-586, 2006.
101. Hamer-Lavoie, G., Cordeau, J.-F., “Un modèle pour la conception d'un réseau de distribution avec localisation, affectation et stocks”, *INFOR* 44, 1-18, 2006.
102. Moccia, L., Cordeau, J.-F., Gaudioso, M., Laporte, G., “A Branch-and-Cut Algorithm for the Quay Crane Scheduling Problem in a Container Terminal”, *Naval Research Logistics* 53, 45-59, 2006.
103. Cordeau, J.-F., Laporte, G., Legato, P., Moccia, L., “Models and Tabu Search Heuristics for the Berth-Allocation Problem”, *Transportation Science* 39, 526-538, 2005.
104. Cordeau, J.-F., Laporte, G., “Maximizing the Value of an Earth Observation Satellite Orbit”, *Journal of the Operational Research Society* 56, 962-968, 2005.
105. Mercier, A., Cordeau, J.-F., Soumis, F., “A Computational Study of Benders Decomposition for the Integrated Aircraft Routing and Crew Scheduling Problem”, *Computers & Operations Research* 32, 1451-1476, 2005.
106. Attanasio, A., Cordeau, J.-F., Ghiani, G., Laporte, G., “Parallel Tabu Search Heuristics for the Dynamic Multi-Vehicle Dial-a-Ride Problem”, *Parallel Computing* 30, 377-387, 2004.
107. Cordeau, J.-F., Laporte, G., Mercier, A., “An Improved Tabu Search Algorithm for the Handling of Route Duration Constraints in Vehicle Routing Problems with Time Windows”, *Journal of the Operational Research Society* 55, 542-546, 2004.

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- 109.Cordeau, J.-F., Laporte, G., “The Dial-a-Ride Problem (DARP): Variants, Modeling Issues and Algorithms”, *4OR - Quarterly Journal of the Belgian, French and Italian Operations Research Societies* 1, 89-101, 2003.
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### **Papers in professional journals**

1. Cordeau, J.-F., Laporte, G., “Le transport des marchandises en quelques chiffres”, *Routes et Transports*, 25(4):43-44, 1996.

### **Research reports submitted for publication**

1. Miranda, P., Cordeau, J.-F., Ferreira, D., Jans, R., Morabito, R., “A Decomposition Heuristic for a Rich Production Routing Problem”, *Computers & Operations Research*, May 2017.
2. Bruck, B.P., Cordeau, J.-F., Iori, M., “A Practical Time Slot Management and Routing Problem in Attended Home Delivery”, *Omega*, January 2017.
3. Chitsaz, M., Cordeau, J.-F., Jans, R., “A Unified Decomposition Matheuristic for Assembly, Production and Inventory Routing”, *INFORMS Journal on Computing*, January 2017.
4. Zetina, C.A., Contreras, I., Cordeau, J.-F., Nikbakhsh, E., “Robust Uncapacitated Hub Location”, *Transportation Research Part B*, November 2016.
5. Gruson, M., Cordeau, J.-F., Jans, R., “The Impact of Service Level Constraints in Deterministic Lot Sizing with Backlogging”, *Omega*, August 2016.
6. Markov, I., Bierlaire, M., Cordeau, J.-F., Maknoon, Y., Varone, S., “Inventory Routing with Non-stationary Stochastic Demands”, *Transportation Science*, August 2016.
7. Ghilas, V., Cordeau, J.-F., Demir, E., Van Woensel, T., “Branch-and-Price for the Pickup and Delivery Problem with Time Windows and Scheduled Lines”, *Transportation Science*, March 2016.

### **Supervision of graduate students**

#### *Degrees completed*

1. Karine Sinclair (Ph.D.), HEC Montréal, “Heuristiques pour le problème conjoint de récupération des appareils et des passagers en transport aérien”, 2016, J.-F. Cordeau, G. Laporte.
2. Sanjay Dominik Jena (Ph.D.), Université de Montréal, "Dynamic Facility Location with Modular Capacities: Models, Algorithms and Applications in Forestry", 2014, J.-F. Cordeau, B. Gendron.
3. Marie-Ève Rancourt (Ph.D.), HEC Montréal, “Analysis and Optimization of Long-Haul Transportation Problems”, 2013, J.-F. Cordeau, G. Laporte.

4. Yossiri Adulyasak (Ph.D.), HEC Montréal, “Models and Solution Algorithms for Production Routing Problems”, 2012, J.-F. Cordeau, R. Jans.
5. Leandro Callegari Coelho (Ph.D.), HEC Montréal, “Flexibility and Consistency in Inventory-Routing”, 2012, J.-F. Cordeau, G. Laporte.
6. Claudio Contardo (Ph.D.), Université de Montréal, “Models and Algorithms for the Capacitated Location-Routing Problem”, 2011, J.-F. Cordeau, B. Gendron.
7. Julie Paquette (Ph.D.), HEC Montréal, “Mesures de qualité de service et confection de tournées en transport adapté”, 2010, J.-F. Cordeau, G. Laporte.
8. Benoit Crevier (Ph.D.), École Polytechnique de Montréal, “Intégration de la planification des opérations et de la gestion du revenu pour le transport ferroviaire de marchandises”, 2009, G. Savard, J.-F. Cordeau.
9. Gerardo Berbeglia (Ph.D.), HEC Montréal, “Complexity Analyses and Algorithms for Pickup and Delivery Problems”, 2009, J.-F. Cordeau, G. Laporte.
10. Alysso Machado Costa (Ph.D.), HEC Montréal, “Models and algorithms for two network design problems”, 2006, J.-F. Cordeau, B. Gendron, J.-L. Goffin, G. Laporte.
11. Monia Rekik (Ph.D.), École Polytechnique de Montréal, “Construction d’horaires de travail dans des environnements hautement flexibles”, 2006, F. Soumis, J.-F. Cordeau.
12. Luigi Moccia (Ph.D.), Università della Calabria, Facoltà di Ingegneria, Dipartimento di Elettronica, Informatica e Sistemistica, “New Optimization Models and Algorithms for the Management of Maritime Container Terminals”, 2005, J.-F. Cordeau, M. Gaudioso, G. Laporte.
13. Thi Xuan Hoa Du, HEC Montréal, “Electronic Commerce Distribution and Fulfillment in Canada: The Case of a Large Canadian Retailer”, 2017 (J.-F. Cordeau).
14. Charly Robinson La Rocca, HEC Montréal, “Algorithmes d’optimisation pour la gestion d’une flotte de taxis électriques”, 2017 (J.-F. Cordeau).
15. Khalid Amghar, Département d’informatique et de recherche opérationnelle, Université de Montréal, “Une heuristique de recherche à voisinage variable pour le problème du voyageur de commerce avec fenêtres de temps: Minimisation du temps du retour au dépôt”, 2016 (B. Gendron, J.-F. Cordeau).
16. David Thibodeau (M.Sc.), HEC Montréal, HEC Montréal, “Optimisation d’un réseau de production et distribution avec incertitude dans la demande : un cas pratique”, 2016, J.-F. Cordeau.
17. Pauline Laurainne (M.Sc.), HEC Montréal, “Optimisation du parcours patient en hôpital de jour en oncologie par simulation intégrée à une démarche kaizen”, 2016, J.-F. Cordeau, M.-H. Jobin.
18. Sami Birem (M.Sc.), HEC Montréal, “Une méthode de reconfiguration saisonnière des zones de préparation de commandes d’un centre de distribution”, 2016, J.-F. Cordeau.
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25. Katie Hébert (M.Sc.), HEC Montréal, “Mise en place d’un service régulier d’autobus à Salaberry-de-Valleyfield”, 2013, J.-F. Cordeau, G. Laporte.
26. Steve Lynch (M.Sc.), HEC Montréal, “Optimisation des horaires pour des trains de banlieue”, 2012, J.-F. Cordeau, G. Laporte.

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28. Andrée-Eve Brochu (M.Sc.), HEC Montréal, “L’intégration du problème de zone avancée-réserve lors de la conception d’une zone de préparation des commandes dans un centre de distribution”, 2011, J.-F. Cordeau.
29. François Sarrazin (M.Sc.), HEC Montréal, “Assignation de véhicules en charges complètes dans une entreprise de camionnage”, 2010, J.-F. Cordeau, G. Laporte.
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32. Michèle Major (M.Sc.), HEC Montréal, “Élaboration de tournées de véhicules robustes pour le problème périodique avec fenêtres de temps et temps de parcours stochastiques”, 2010, J.-F. Cordeau, G. Laporte.
33. Alexis Houle (M.Sc.), HEC Montréal, “Ordonnancement de la production d’un atelier de vérification de microprocesseurs”, 2009, J.-F. Cordeau, F. Pasin.
34. Émilie Juhant (M.Sc.), HEC Montréal, “Optimisation d’un problème de tournées de véhicules dans le domaine de la distribution de produits équitables au Canada”, 2009, J.-F. Cordeau.
35. Éric Drouin (M.Sc.), HEC Montréal, “L’impact de la réglementation des heures de conduite sur les transporteurs routiers”, 2008, J.-F. Cordeau, J. Roy.
36. Richard Moussalli, HEC Montréal, “Résolution d’un problème de tournées de véhicules pour un fabricant de produits d’emballage en Arabie Saoudite”, 2008, J.-F. Cordeau, G. Laporte.
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39. Tuyva Chan (M.Sc.), HEC Montréal, “Localisation d’usines satellites dans le domaine forestier”, 2007, J.-F. Cordeau, G. Laporte.
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41. Xiuli Qi (M.Sc.), HEC Montréal, “A Constructive Heuristic for the Traveling Salesman Problem with Multiple Time Windows”, 2007, J.-F. Cordeau, G. Laporte.
42. Karine Sinclair (M.Sc.), HEC Montréal, “Un algorithme de recherche avec tabous pour le problème du cycle médian à plusieurs véhicules”, 2007, J.-F. Cordeau, G. Laporte.
43. Ghislain Dubuc (M.Sc.), HEC Montréal, “Une heuristique de recherche avec tabous pour la conception de réseaux de distribution de contenu électronique”, 2007, J.-F. Cordeau, G. Laporte.
44. Jean-Philippe Racine (M.Sc.), HEC Montréal, “Méthodes de diversification pour l’ordonnancement de voitures”, 2007, (J.-F. Cordeau, F. Pasin).
45. Jian Yang Zhang (M.Sc.), HEC Montréal, “La planification du transport international”, 2007, J.-F. Cordeau, J. Roy.
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47. Dominick Samson (M.Sc.), HEC Montréal, “Ordonnancement de la production d’un atelier de vérifications électriques de modules électroniques”, 2007, J.-F. Cordeau, F. Pasin.
48. Rahamata Diomande (M.Sc.), HEC Montréal, “La gestion prévisionnelle de la demande en contexte d’intégration: Le cas de l’industrie pharmaceutique”, 2007, J.-F. Cordeau, A. Tchokogué.
49. Marie-Ève Rancourt (M.Sc.), HEC Montréal, “Étude d’algorithmes constructifs pour un problème de tournées de véhicules périodique”, 2007, J.-F. Cordeau, G. Laporte.

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52. Genevi  ve Parent (M.Sc.), HEC Montr  al, "Analyse de la demande de nouveaux m  dicaments g  n  riques", 2006, J.-F. Cordeau, S. Landry.
53. Julie Rosato (M.Sc.), HEC Montr  al, "L'implication des transporteurs routiers dans leurs relations avec les acteurs de la cha  ne logistique", 2006, J.-F. Cordeau, J. Roy.
54. Walid Siala (M.Sc.), HEC Montr  al, "Un algorithme g  n  tique pour le probl  me d'ordonnancement de voitures", 2006, J.-F. Cordeau, F. Pasin.
55. Catherine Gingras (M.Sc.), HEC Montr  al, "Optimisation du transport dans l'industrie foresti  re", 2005, J.-F. Cordeau, G. Laporte.
56. Anne-Marie Walach (M.Sc.), HEC Montr  al, "Optimisation de la distribution de produits alimentaires", 2004, J.-F. Cordeau, G. Laporte.
57. Vincent Raymond (M.Sc.), HEC Montr  al, "Gestion de la mission de satellites d'observation de la Terre", 2004, J.-F. Cordeau, G. Laporte.
58. Karine Lacerte (M.Sc.), HEC Montr  al, "Optimisation simultan  e des tailles de lots et de l'ordonnancement de la production", 2004, J.-F. Cordeau, G. Laporte.
59. Marie-Sandrine Millet (M.Sc.), HEC Montr  al, "Comparaison par l'optimisation de diff  rents syst  mes de r  approvisionnement des unit  s de soins en fournitures m  dicales", 2004, J.-F. Cordeau, S. Landry.
60. Nathalie Ouellet (M.Sc.), HEC Montr  al, "L'utilisation de l'information en temps r  el dans l'industrie du transport routier des marchandises", 2004, J.-F. Cordeau, J. Roy.
61. St  phanie Gillenwater (M.Sc.), HEC Montr  al, "Impacts de la r  glementation sur les heures de conduite", 2004, J.-F. Cordeau, G. Laporte.
62. R  my Monfet (M.Sc.), HEC Montr  al, "Localisation de centres de tri de colis", 2004, J.-F. Cordeau, G. Laporte.
63. Ghislain Gagn   (M.Sc.), HEC Montr  al, "L'amplification de la variabilit   de la demande: simulation d'un r  seau de distribution", 2004, J.-F. Cordeau, S. Landry.
64.   ve Lacasse-Guay (M.Sc.), HEC Montr  al, "Une application de la programmation stochastique    la conception de r  seaux logistiques", 2003, J.-F. Cordeau.
65. Dominic Paquette (M.Sc.), HEC Montr  al, "Un probl  me de localisation et de tourn  es se posant dans la livraison du courrier", 2003, J.-F. Cordeau, G. Laporte.
66. Robert Morisset (M.Sc.), HEC Montr  al, "Une comparaison de deux m  thodes de r  solution pour le probl  me combin   de localisation et de tourn  es de v  hicules avec fen  tres de temps", 2002, J.-F. Cordeau, J. Desrosiers.
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68. Guillaume Hamer-Lavoie (M.Sc.), HEC Montr  al, "Conception de r  seaux de distribution avec localisation, affectation et stocks", 2002, J.-F. Cordeau.
69. Yolaine Cohen-Scali (M.Sc.), HEC Montr  al, "Itin  raires d'autobus scolaires avec flexibilit   sur les horaires des   coles", 2002, J.-F. Cordeau, J. Desrosiers.
70. Karine Cousineau-Ouimet (M.Sc.), HEC Montr  al, "Une m  thode de recherche avec tabous pour le probl  me de tourn  es de v  hicules avec contraintes de stocks", 2002, J.-F. Cordeau, G. Laporte.

*Students under supervision*

1. Khalid Amghar (Ph.D.), Universit   de Montr  al, J.-F. Cordeau, B. Gendron.
2. Masoud Chitsaz (Ph.D.), HEC Montr  al, J.-F. Cordeau, R. Jans.

3. Matthieu Gruson (Ph.D.), HEC Montréal, J.-F. Cordeau, R. Jans.
4. Carlos Zetina (Ph.D.), Concordia University, I. Contreras, J.-F. Cordeau.
5. Louis-Pierre Trottier (M.Sc.), HEC Montréal, J.-F. Cordeau.

### **Other professional activities**

- Associate Editor for *IIE Transactions*
- Associate Editor for *INFOR*
- Associate Editor for *Transportation Science*
- Member of the Editorial Board of *Computers & Operations Research*
- Member of the Advisory Board of *International Journal of Automation and Logistics*
  
- Member of the Program Committee, Odysseus 2018 – Seventh International Workshop on Freight Transportation and Logistics, Cagliari, Italy, June 2018.
- Member of the Scientific Committee, First INFORMS Transportation Science and Logistics Society Conference, Chicago, July 2017.
- Cluster Chair (with I. Contreras), “Discrete Optimization in Logistics and Transportation”, 21<sup>st</sup> Conference of the International Federation of Operational Research Societies, Québec City, July 2017.
- Member of the Program Committee, Fifth INFORMS Transportation Science and Logistics Society Workshop, Atlanta, June 2016.
- Member of the International Scientific Committee, Ninth Triennial Symposium on Transportation Analysis (TRISTAN IX), Oranjestad, Aruba, June 2016.
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society, Banff, May-June 2016
- Co-organizer (with R. Jans), International Workshop on Lot Sizing, Montreal, Canada, August 2015.
- Tutorial Co-chair, CORS/INFORMS International Conference, Montreal, Canada, June 2015
- Member of the International Scientific Committee, Fourth Annual Conference of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), Vienna, Austria, June 2015
- Member of the Scientific Committee, Odysseus – Sixth International Workshop on Freight Transportation and Logistics, Ajaccio, France, June 2015
- Member of the International Advisory Committee, Third Annual Conference of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), Oslo, Norway, June 2014
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society, Ottawa, May 2014
- Member of the International Scientific Committee, 43<sup>rd</sup> International Conference on Computers & Industrial Engineering, Hong Kong, October 2013
- Member of the International Scientific Committee, Eighth Triennial Symposium on Transportation Analysis (TRISTAN VIII), San Pedro de Atacama, Chile, June 2013
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society Vancouver, May 2013
- Member of the Program Committee, ORP3 – Operation Research Peripatetic Postgraduate Programme, Linz, Austria, July 2012

- Member of the Scientific Committee, Odysseus – Fifth International Workshop on Freight Transportation and Logistics, Mykonos, Greece, May 2012
- Cluster Chair, “Transportation and Logistics”, Conference of the Canadian Operational Research Society, St-John’s, Newfoundland, May-June 2011
- Co-organizer (with D. Quadri, M. Gendreau and F. Semet), Network Optimization Workshop, Ajaccio, France, August 2010
- Member of the Scientific Committee, Tristan VII, Tromso, Norway, June 2010
- Co-organizer (with T.G. Crainic and G. Laporte), Spring School on Supply Chain and Transportation Network Design, Montreal, May 2010
- Member of the Scientific Committee, Odysseus – Fourth International Workshop on Freight Transportation and Logistics, Izmir, Turkey, May 2009
- Member of the Program Committee, 7<sup>th</sup> Metaheuristics International Conference, Montreal, June 2007
- Co-organizer (with G. Laporte), Spring School on Vehicle Routing, Montreal, May 2006
- Co-organizer (with B. Gendron and V. Verter), Joint Conference of the Canadian Operational Research Society and Optimization Days 2006, Montreal, May 2006
- Member of the Program Committee, 6<sup>th</sup> Metaheuristics International Conference, Vienna, August 2005
- Co-organizer (with G. Laporte), Spring School on Transportation, Montreal, May 2004
- Co-organizer (with B. Gendron), Optimization Days, Montreal, May 2004
- Co-organizer (with G. Laporte), Spring School on Logistics and Distribution Management, Montreal, May 2002
- Co-organizer (with B. Gendron), Optimization Days, Montreal, May 2002
- Member of the Interuniversity Research Center on Enterprise Networks, Logistics and Transportation (CIRRELT)
- Member of the Groupe d’études et de recherche en analyse des décisions (GERAD)
- Member of the Institute for Operations Research and the Management Sciences (INFORMS)
- Consultant for AQL Management Consulting, Cascades Récupération, Centre National d’Études Spatiales (France), CIM – Conseil en immobilisation & management, EMCO Limitée, Groupe GCL, Hydro-Québec, Nokia (Finland), Sky Service Aviation.

May 31, 2017