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PUBLICATIONS

DISSERTATION

GENDREAU, M. (1984), “Étude approfondie d'un modèle d'équilibre pour l'affectation des passagers dans les réseaux de transport en commun”, publication #384, Centre de recherche sur les transports, Université de Montréal.

REFEREED JOURNAL ARTICLES

[S1] CRAINIC, T.G., GENDREAU, M., “Intelligent Freight Transportation Systems: Assessment and the Contribution of Operations Research”, to appear in *Transportation Research C: Emerging Technologies*.

[J2] REI, W., GENDREAU, M., CORDEAU, J.-F., SORIANO, P., “Accelerating Benders Decomposition by Local Branching”, to appear in *INFORMS Journal on Computing*.

[J3] FEILLET, D., GENDREAU, M., ROUSSEAU, L.-M., “New Refinements for the Solution of Vehicle Routing Problems with Branch and Price”, to appear in *INFOR*.

[J4] BÉRUBÉ, J.-F., GENDREAU, M., POTVIN, J.-Y., “An Exact Epsilon-Constraint Method for Biobjective Combinatorial Optimization Problems: Application to the Traveling Salesman Problem with Profits”, to appear in *European Journal of Operational Research*.

[J5] KOUASSI, R., GENDREAU, M., POTVIN, J.-Y., SORIANO, P., “Heuristics for Multi-Period Capacity Expansion in Local Telecommunications Networks”, to appear in *Journal of Heuristics*.

[J6] DE LADURANTAYE, D., GENDREAU, M., POTVIN, J.-Y., “Optimizing Profits from Hydroelectricity Production”, to appear in *Computers & Operations Research*.

[J7] GENDREAU, M., IORI, M., LAPORTE, G., MARTELLO, S., “A Tabu Search Heuristic for the Vehicle Routing Problem with Two-Dimensional Loading Constraints”, to appear in *Networks*.

[J8] MOHAN, S., GENDREAU, M., ROUSSEAU, J.-M. (2008), “The Stochastic Eulerian Tour Problem”, *Transportation Science* 42, 166-174.

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- [J16] TAGMOUTI, M., GENDREAU, M., POTVIN, J.-Y. (2007), “Arc Routing Problems with Time-Dependent Service Costs”, *European Journal of Operational Research* 181, 30-39.
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- [S2] BORDENAVE, C., GENDREAU, M., LAPORTE, G., “A Branch-and-Cut Algorithm for the Non-Preemptive Swapping Problem”, *Naval Research Logistics*.
- [S3] MOHAN, S., GENDREAU, M., ROUSSEAU, J.-M., “Heuristics for the Stochastic Eulerian Tour Problem”, *European Journal of Operational Research*.
- [S4] AVRAMIDIS, A.N., GENDREAU, M., L'ÉCUYER, P., PISACANE, O., “Optimizing Daily Agent Scheduling in a Multiskill Call Center”, *European Journal of Operational Research*.
- [S5] ARTIGUES, C., GENDREAU, M., ROUSSEAU, L.-M., VERGNAUD, A., “Solving an integrated employee timetabling and job-shop scheduling problem via hybrid branch-and-bound”, *Computers & Operations Research*.
- [S6] AZI, N., GENDREAU, M., POTVIN, J.-Y., “An Exact Algorithm for a Vehicle Routing Problem with Time Windows and Multiple Use of Vehicles”, *European Journal of Operational Research*.
- [S7] REI, W., GENDREAU, M., SORIANO, P., “Local Branching Cuts for the 0-1 Integer L-Shaped Algorithm”, *Operations Research*.
- [S8] REI, W., GENDREAU, M., SORIANO, P., “A Hybrid Monte Carlo Local Branching Algorithm for the Single Vehicle Routing Problem with Stochastic Demands”, *Transportation Science*.
- [S9] BÉRUBÉ, J.-F., GENDREAU, M., POTVIN, J.-Y., “A Branch-and-Cut Algorithm for the Undirected Prize Collecting Traveling Salesman Problem”, *Networks*.

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- [O2] BENYAMINA, D., HAFID, A., GENDREAU, M., HALLAM, N. (2007), “Managing Wireless Mesh Networks- Analyses and Proposals”, *Proceedings of the 3rd IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob)*, New York (U.S.A.), October 8-10.
- [O3] AVRAMIDIS, A.N., GENDREAU, M., L'ÉCUYER, P., PISACANE, O. (2007), “Improving a Call Center Performance at a Telecommunication Company”, *Proceedings of ISC'2007 (The Industrial Simulation Conference)*, Delft University of Technology, Delft (Pays-Bas), June 11-13, pp. 255-263.
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CONFERENCES AND PRESENTATIONS IN MEETINGS (2001-2008)

<i>Period</i>	2008	2007	2006	2005	2004	2003	2002	2001
<i>Total</i>	7	15	22	10	8	13	14	21
<i>Invited</i>	7	11	20	8	6	11	12	18

TRAINING OF HIGHLY QUALIFIED PERSONNEL (1994-...)

<i>Student</i>	<i>Degree</i>	<i>University</i>	<i>Date</i>	<i>Co-supervisor(s)</i>	<i>Role</i>
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C. Crisan	Post-doc	CIRRELT	08-...	T.G. Crainic	2
N. Lahrichi	Post-doc	CIRRELT	08-...	T.G. Crainic/W. Rei	2
R. Namboothiri	Post-doc	CIRRELT	08-...	T.G. Crainic	2
L. Koukhi	Post-doc	U. de Montréal	08-...	A. Hafid	2
B. Rabhi	Ph.D.	U. de Montréal	08-...	T.G. Crainic/W. Rei	1
S. Lannez	Ph.D.	U. de Toulouse	08-...	C. Artigues	1
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E. Bueno	Ph.D.	U. de M./Poly.	06-...	J. Ferland	1
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J. Rezgui	Ph.D.	U. de Montréal	05-...	A. Hafid	1
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J. Abrache	Ph.D.	U. de Montréal	98-04	T.G. Crainic	1
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D. Feillet	Ph.D.	École Centrale Paris	97-01	P. Dejax	1
C. Gueguen	Ph.D.	École Centrale Paris	95-99	P. Dejax	1
Y. Xu	Ph.D.	U. de Montréal	93-99	C. Comtois	1
C. Wynants	Ph.D.	U. Libre Bruxelles	93-99	M. Labbé	1
S. Govindan	Ph.D.	U. de Montréal	94-98	J.-M. Rousseau	1
A. De Jongh	Ph.D.	U. Libre Bruxelles	93*-98	M. Labbé	2
L. Brotcorne	Ph.D.	U. Libre Bruxelles	95*-98	M. Labbé/P. Marcotte	3
A Posada-Bolivar	Ph.D.	U. of Toronto	95*-97	E. Pickett	1
L. Lopez	Ph.D.	U. of Toronto	95*-97	M. W. Carter	1
L. Guimarães	Ph.D.	U. Campinas	90-97	V.A. Armentano	1
M. Stan	Ph.D.	Polytechnique	91-96	B. Jaumard/G. Laporte	3
B. Bouzaïene-Ayari	Ph.D.	U. de Montréal	88-96	S. Nguyen	1
F. Benamar	Ph.D.	École Centrale Paris	90-95	P. Dejax/T.G. Crainic	2
S. Saïdi	Ph.D.	Polytechnique	89-95	F. Soumis	1
Y. Li	Ph.D.	H.E.C.	88-95	J.-M. Rousseau	2
P. Soriano	Ph.D.	U. de Montréal	87-94	J.-M. Rousseau	1
R. Séguin	Ph.D.	U. de Montréal	86-94	G. Laporte	1
X. Fu	M.Sc.	U. de Montréal	05-08	T.G. Crainic	1
S. Lannez	M.Sc.	U. de Montréal	04-07	T.G. Crainic	1
I. Beaulieu	M.Sc.	H.E.C.	05-07	P. Soriano	2
D. S. Craciunas	M.Sc.	U. de Montréal	04-07	J.-Y. Potvin	1
R. Kouassi	M.Sc.	U. de Montréal	03-06	P. Soriano/J.-Y. Potvin	1
M. Ould Ebede	M.Sc.	U. de Montréal	03-06	L.-M. Rousseau	1
A. Carrière	M.Sc.	H.E.C.	02-06	P. Soriano	2
É. Normandin	M.Sc.	Polytechnique	03-04	P. Soriano/S. Lapierre	1
N. Azi	M.Sc.	U. de Montréal	02-04	J.-Y. Potvin	1
N. Van Omme	M.Sc.	U. de Montréal	02-04	P. Soriano	1

<i>Student</i>	<i>Degree</i>	<i>University</i>	<i>Date</i>	<i>Co-supervisor(s)</i>	<i>Role</i>
A. Smires	M.Sc.	U. de Montréal	01-04	P. Soriano/J.-Y. Potvin	1
M.-C. Dulude	M.Sc.	H.E.C.	01-04	P.Soriano	2
S. Ghita	M.Sc.	U. de Montréal	00-04	T.G. Crainic	1
D. De Ladurantaye	M.Sc.	U. de Montréal	02-03	J.-Y. Potvin	1
C. Makaya	M.Sc.	U. de Montréal	01-02	P. Marcotte	1
E. Pelletier	M.Sc.	H.E.C.	98-02	P. Soriano	2
J. Roy	M.Sc.	U. de Montréal	99-01	J. Desrosiers	2
B. Schaack	M.Sc.	H.E.C.	98-01	P. Soriano	2
W. Rei	M.Sc.	H.E.C.	98-01	P. Soriano	2
R. Amrouni	M.Sc.	H.E.C.	97-01	P. Soriano	2
A. Benterki	M.Sc.	U. de Montréal	97-01	T.G. Crainic	1
J. Desaulniers	M.Sc.	U. de Montréal	97-01	Y. Bengio	2
F.X. Le Louarn	M.Sc.	U. de Montréal	98-00	J.-Y. Potvin	1
J. Pelleu	M.Sc.	U. de Montréal	97-01	P. Soriano/R. Séguin	1
L.-M. Rousseau	M.Sc.	U. de Montréal	97-99	G. Pesant	1
J. Demers	M.Sc.	U. de Montréal	97-99	T.G. Crainic	1
E. Morais-Guimarães	M.Sc.	U. de Montréal	97-99	G. Laporte	1
E. Cabral	M.Sc.	H.E.C.	96-98	G. Laporte	2
J. Abrache	M.Sc.	U. de Montréal	96-98	T.G. Crainic	1
S. Labbé	M.Sc.	H.E.C.	96-98	P. Soriano/S. Lapierre	2
I. Parent	M.Sc.	U. de Montréal	96-98	G. Laporte	1
C. Dupuis	M.Sc.	H.E.C	95-98	P. Soriano	2
M. Fattah	M.B.A.	UQAM	95-98	T.G. Crainic	2
B. Moutadir	M.B.A.	UQAM	95-98	T.G. Crainic	2
J.-S. Brunet	M.Sc.	U. de Montréal	93-96	Y. Lepage	1
C. Musaraganyi	M.Sc.	U. de Montréal	94-96	G. Laporte	1
J.-F. Cordeau	M.Sc.	H.E.C.	94-95	G. Laporte	1
S. Yelle	M.Sc.	H.E.C.	94-95	G. Laporte	1
J.-F. Larochelle	M.Sc.A.	Polytechnique	94-95	B. Sansó	1
H. Dufourd	M.Sc.A.	Polytechnique	92-94	G. Laporte/F. Soumis	2
L.-M. Goulet	M.Sc.A.	Polytechnique	92-94	B. Jaumard/B.T. Smith	2

1. Formal joint supervision with significant involvement both on the administrative and scientific issues.
2. Joint supervision with significant involvement on the scientific issues. Some of these supervisions were not formalized.
3. Informal joint supervision with significant involvement on the scientific issues for some part of the candidate's research.

* Date at which the co-supervision started.

RESEARCH GRANTS (2001-2008)

“Centre interuniversitaire de recherche sur les réseaux d’entreprise, la logistique et le transport (CIRRELT) ”, FQRNT. \$1,685,000/2006-2012. Group. Principal investigator.

“Centre interuniversitaire de recherche sur les réseaux d’entreprise, la logistique et le transport (CIRRELT) ”, FQRSC. \$450,000/2006-2012. Group. Principal investigator.

“Heuristiques avancées pour les problèmes de tournées de véhicules complexes”, FQRNT. \$145,800/2008-2011. Group. Principal investigator.

“Conception automatisée d’algorithmes et de circuits pour le traitement des signaux”, FQRNT. \$155,520/2008-2011. Group.

“Advanced Distribution Methods”, NSERC-Collaborative Research and Development Grant. \$151,500/2008-2010. Group.

“Conception et gestion de réseaux maillés sans fil”, Bell University Laboratories. \$196,000/2007-2010. Group.

“Design and Management of Wireless Mesh Networks”, NSERC-Collaborative Research and Development Grant. \$196,000/2007-2010. Group.

“Application of Operations Research Methods in Transportation, Telecommunications and Scheduling”, NSERC. \$320,000/2005-2010. Individual.

“Un système adaptatif de déploiement de bande passante, avec garanties de service pour la Grille”, FQRNT. \$135,000/2006-2009. Group.

“High Performance Parallel Server”. NSERC-Equipment. \$87,517/2007-2008. Group. Principal investigator.

“Gestion optimale d’un centre d’appels”, Bell University Laboratories. \$225,000/2005-2008. Group.

“Simulation and Optimization for Call Centers Management”, NSERC-Collaborative Research and Development Grant. \$225,000/2005-2008. Group.

“Application de la logistique urbaine dans le contexte Nord Américain”, FQRNT. \$171,000/2005-2008. Group.

“Design de marchés électroniques complexes”, FQRNT. \$120,000/2003-2006. Group. Principal investigator.

“High Performance Computing Cluster”, NSERC-Equipment. \$50,951/2004-2005. Group. Principal investigator.

“Fleet Management for Advanced Intermodal Services”, Transports-Canada. \$111,220/2004-2005. Group.

“Applications de la recherche opérationnelle en transport et en télécommunications”, NSERC. \$201,600/2001-2005. Individual.

“Méthodes d’optimisation appliquée à la gestion des transports”, FCAR. \$264,000/2001-2004. Group.

“Cluster of Personal Computers for Distributed Parallel Computing”, NSERC-Equipment. \$ 26,090/2002-2003. Group.

“Towards Electronic Market Places”, NSERC- Collaborative Research and Development Grant. \$775,000/2000-2003. Group. Principal investigator.

“Towards Electronic Market Places”, Bell University Laboratories. \$1,000,000/1999-2003. Group. Principal investigator. (jointly with J. Robert)

“Confection automatique d’horaires dans les établissements de santé”, NSERC. \$362,000/1999-2003. Group.

“Servers and Electronic Commerce Testing (SECT)”, Bell University Laboratories. \$142,000/2001-2002. Group.

“SUN Enterprise 450 Server”, NSERC-Equipment. \$83,118/2001-2002. Group. Principal investigator.

“SUN Enterprise 450 Servers”, FCAR-Équipement. \$75,000/2000-2001. Group.

“Software for High Performance Parallel Optimisation”, NSERC-Equipment. \$56,342/2000-2001. Group.

“Intelligent Transportation Systems”, Bell University Laboratories. \$50,000/1999-2001. Group.

“Méthodes d’optimisation appliquée à la gestion des transports”, FCAR. \$156,000/1998-2001 + \$25,280/1998-1999 (equipment). Group.

“Applications de la recherche opérationnelle en transport et en télécommunications”, NSERC.\$142,530/1997-2001. Individual.

OTHER ACTIVITIES AND CONTRIBUTIONS (from 1995)

AWARDS

- ◆ Merit Award 2001 of the Canadian Operational Research Society.
- ◆ Service Award 1998 of the Canadian Operational Research Society.

INVITED TALKS

- ◆ Invited plenary speaker, VI ALIO/EURO Workshop on Applied Combinatorial Optimization, Buenos Aires, December 2008.
- ◆ Invited plenary speaker, XIV CLAIO, Cartagena, September 2008.
- ◆ Invited plenary speaker, XIII CLAIO, Montevideo, November 2006.
- ◆ Invited plenary speaker, PATAT'06, Brno, September 2006.
- ◆ Invited plenary speaker, LT'2006 Workshop, Hammamet, April-May 2006.
- ◆ Invited plenary speaker, ISOLDE X, Sevilla and Islantilla, June 2005.
- ◆ Invited plenary speaker, NZIMA Workshop on Mathematical Models for Optimizing Transportation Services, Auckland, April 2005.
- ◆ Invited plenary speaker, TraLog Symposium, Molde, August 2004.
- ◆ Invited plenary speaker, CO'2002 Conference, Paris, April 2002.
- ◆ Invited speaker, INFORMS Practice Meeting, San Diego, May 2001.
- ◆ Invited tutorial, CP-AI-OR 2005 Master Class, Prague, May 2005.
- ◆ Invited tutorial, INTROS'2003, Nottingham, August 2003.
- ◆ Invited tutorial, CORS/SCRO Meeting, Toronto, June 2002.
- ◆ Invited tutorial, MIC-III, Angra dos Reis, July 1999.
- ◆ Invited tutorial, CORS/SCRO Meeting, Windsor, June 1999.
- ◆ Invited tutorial, Optimization Days, Montreal, May 1999.
- ◆ Invited tutorial, Joint SCRO/CORS-INFORMS Meeting, Montreal, April 1998.

EDITORSHIPS

- ◆ Area Editor "Heuristic Search and Learning", *INFORMS Journal on Computing*.
- ◆ Associate Editor of *Operations Research*, *RAIRO-Recherche opérationnelle*, *Journal of Scheduling, Optimization and Engineering* and *International Transactions in Operational Research*.
- ◆ Member of the Advisory Board of Editors, *Transportation Science*.
- ◆ Editor in chief (2001-2006) and Operational Research Editor (1998-2001) of *INFOR*.
- ◆ Associate Editor of *Journal of Heuristics* (1995-2007), *Transportation Science* (1995-2007) and *O.R. Letters* (1999-2002).

SCIENTIFIC SOCIETIES

- ◆ Vice-President of the International Federation of Operational Research Societies (IFORS) (2001-2003; 2007-2009).
- ◆ Vice-President, International Activities of INFORMS (2006-2009).
- ◆ Member of the Robert Herman Lifetime Achievement Award Committee (2003-...).
- ◆ Past President (1997-1998), President (1996-1997), Vice-President (1995-1996) and Council member (1993-95; 1998-2006) of the Canadian Operational Research Society.
- ◆ Member of the Dissertation Prize Committee of the Transportation Science Section of INFORMS (1996).
- ◆ Member of the Council of Transportation Science Section of ORSA (1992-1995).
- ◆ Member of the Transportation Supply Analysis Committee of the Transportation Research Board (1991-...).

REVIEW COMMITTEES

- ◆ Member of the Grant Selection Committee in industrial engineering (GSC 20) of the Canadian Natural Sciences and Engineering Research Council (NSERC) (2007-2009).
- ◆ Member of the Peer Review College of the British Engineering and Physical Sciences Research Council (EPSRC) (2006-...).
- ◆ Member of the Platform Grant Review Panel of the British Engineering and Physical Sciences Research Council (2007-2008).
- ◆ Member of the advisory committee of the Freight Sustainability Demonstration Program of Transport-Canada (2002-2006).

SCIENTIFIC MEETINGS AND CONFERENCES (FROM 1998)

- ◆ Member of the organizing committee of the following scientific meetings:
 - PATAT 2008 (Montreal, 8/08)
 - MIC'2007 (Montreal, 6/07)
 - MIC'2005 (Vienna, 8/05),
 - TRISTAN V (Guadeloupe, 6/04)
 - CORS/INFORMS (Banff, 5/04)
 - CP/AI/OR'03 (Montreal, 5/03)
 - ICECR-5 (Montreal, 10/02)
 - CORS/Optimization Days (Quebec City, 5/01)
 - GO IV (Leukerbad, 8/00)
 - Odysseus 2000 (Chania, 5/00)
 - Optimization Days (Montreal, 5/99)
 - CORS/INFORMS (Montreal, 4/98)

◆ Member of the program or scientific committee of the following scientific meetings:

- Odysseus 2009 (Izmir, 5/09)
- INOC 2009 (Pisa, 4/09)
- LION 3 (Trento, 1/09)
- META'08 (Hammamet, 10/08)
- NAEC 2008 (Riva del Garda, 10/08)
- GISEH 2008 (Lausanne, 9/08)
- Matheuristics 2008 (Bertinoro, 6/08)
- EvoCOP 2008 (Naples, 3/08)
- NCP07 (Rouen, 12/07)
- LION 2007 bis (Trento, 12/07)
- NAEC 2007 (Riva del Garda, 10/07)
- SLS 2007 (Brussels, 9/07)
- MISTA 2007 (Paris, 8/07)
- TRISTAN VI (Phuket, 6/07)
- WEA 2007 (Rome, 6/07)
- IESM'07 (Beijing, 5/07)
- CISched'07 (Hawaii, 4/07)
- INOC 2007 (Spa, 4/07)
- FRANCORO V/ROADEF'2007 (Grenoble, 2/07)
- LION 2007 (Andalo, 2/07)
- META'06 (Hammamet, 11/06)
- NAEC 2006 (Riva del Garda, 10/06)
- IWDL 2006 (Brescia, 10/06)
- PPSN IX (Reykjavik, 9/06)
- PATAT'06 (Brno, 9/06)
- Odysseus 2006 (Altea, 5/06)
- LT'2006 (Hammamet, 4/06),
- EvoCOP 2006 (Budapest, 4/06)
- ROADEF'2006 (Lille, 2/06)
- 18th Mini-EURO Conference (Tenerife, 11/05)
- 16th Mini-EURO Conference (Poznan, 9/05)
- MISTA 2005 (New York, 7/05)
- IFORS XVII (Hawaii, 7/05)
- GECCO-2005 (Washington, 6/05)
- IEEE SIS-05 (Pasadena, 6/05)
- CORS 2005 (Halifax, 5/05)
- ORPA-1 (Ouagadougou, 4/05)
- 4th EU/ME Workshop (Nottingham, 11/04)
- PPSN VIII (Birmingham, 9/04),
- ANTS 2004 (Bruxelles, 9/04)
- PATAT'04 (Pittsburgh, 8/04)

- GECCO-2004 (Seattle, 7/04)
- ECCO XVII (Beyrouth, 6/04)
- WEA'04 (Búzios, 5/04)
- ICECR-6 (Dallas, 10/03)
- ITSC2003 (Shanghai, 10/03)
- MIC'2003 (Kyoto, 8/03)
- GECCO-2003 (New York, 07/03)
- Odysseus 2003 (Palerme, 5/03)
- ROADEF (Avignon, 2/03)
- ICORD'2002 (Madras, 12/02)
- XII CLAIO (Concepcion, 10/02)
- ANTS'2002 (Bruxelles, 9/02)
- IWH 02 (Beijing, 7/02)
- GECCO-2002 (New York, 7/02)
- IFORS XVI (Edinburgh, 7/02)
- MIC-IV (Porto, 7/01)
- GECCO-2001 (San Francisco, 7/01)
- TRISTAN IV (Azores, 6/01)
- FRANCORO III (Quebec City, 5/01)
- ISATA 2000 (Dublin, 9/00)
- X CLAIO (Mexico, 9/00)
- ANTS'2000 (Bruxelles, 9/00)
- ODYSSEUS 2000 (Chania, 5/00)
- X CLAIO (Mexico, 9/00)
- ANTS'2000 (Bruxelles, 9/00)
- AI'2000 (Innsbruck, 2/00)
- CP-AI-OR'00 (Paderborn, 2/00)
- MIC-III (Angra dos Reis, 7/99)
- TRISTAN III (San Juan, 6/98)
- 31st ISATA (Düsseldorf, 6/98)
- FRANCORO II (Sousse, 4/98)

2008-07-30