



GROUPE D'ÉTUDES ET DE RECHERCHE
EN ANALYSE DES DÉCISIONS

2014-2015 ANNUAL REPORT

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1 – MESSAGE FROM THE DIRECTOR



It was with great pleasure and a desire to serve the GERAD community that I took on the role of GERAD Director in the spring of 2011. My involvement with the group dates back to 1988: first as a PhD student, then as a full member after becoming a professor at UQAM and receiving my first NSERC Discovery Grant, and then later as Co-Director of the GERAD Energy and Environment team (EG2). Now, after four years, I hand the baton over to Guy Desaulniers (Polytechnique Montréal), the GERAD's eighth director in its 35 years of existence. I extend a heartfelt welcome to Guy. He is taking on a GERAD that's in full growth and great financial health.

In fact, this fourth year of my term was marked by the preparation of our request for a grant renewal from the FRQNT Strategic Clusters Program—which was highly successful thanks to monumental and rewarding teamwork. I want to thank everyone for rallying around this common cause, including the administrative support team; the IT team; and members of the working committee set up for this purpose: Georges Zaccour and Michèle Breton (HEC Montréal), François Soumis and Guy Desaulniers (Polytechnique Montréal), and Roussous Dimitrakopoulos (McGill University). I also want to underscore Michael Kokkolaras' support in our meetings with McGill's financial authorities.

Our success is all the more appreciated since our requests were made in a context of budgetary constraints for the Fonds de recherche du Québec and for universities, as a result of provincial government cuts. Despite these less-than-ideal conditions, GERAD received increased support from the FRQNT, institutions and research chairs. This attests to our vitality in the research community in Quebec, Canada and the world; to our positive impact on society in Quebec and beyond; and to our growth and development.

The principal architects of GERAD's sterling record as a centre of international calibre are its 64 regular members from 18 departments in 11 Quebec universities, as well as its associate, visiting and honorary members and its 450 graduate and post-graduate students in diversified areas. The research conducted at GERAD is at the heart of Quebec's economic development and provides continuous input to industrial clusters working on intelligent systems. These industries are GERAD's top research partners.

Thanks to GERAD's achievements, the four universities that support the centre all renewed their commitments, in accordance

with the number of regular members involved. GERAD's host institution is HEC Montréal and we have been the jewel in its research crown for 35 years. HEC Montréal provides us with the maximum financial contribution for research groups, as well as considerable in-kind benefits. The same goes for Polytechnique Montréal, which has been supporting GERAD since the group's foundation. McGill University is maintaining its commitment in order to support a promising next generation of researchers: Several illustrious GERAD members from McGill recently retired, and a new generation of talented researchers is gradually getting involved. UQAM is maintaining its unconditional support, but slightly decreasing its financial support, mainly due to the financial rules governing the status of regular membership for over 50% of GERAD members. Indeed, while there has been a significant increase in the number of GERAD professorial members in recent years, many are active in financial mathematics and carry out a substantial portion of their activities in partnership with the CRM.

Thus, GERAD undertakes a research program that is forward looking and based on solid achievements. This program comprises three research programs that (1) connect theoretical and methodological developments (2) to applications in large-scale systems in Quebec society, and (3) to the development of decision-support software. Program 1 deals with application-related mathematical problems. The mathematical advances achieved in this area make it possible to develop algorithms and systems providing competitive advantages in the application area. With regard to Program 2, GERAD will first maintain its global expertise (scheduling, telecommunications networks, call centres, strategic energy/environment decisions, management applications of games theory, financial engineering, dynamics of large-scale economic or biological sets), and it will also mobilize its multidisciplinary capabilities to address the following major societal challenges: (1) intelligent systems (cities, power grids, transport electrification, pricing); (2) real-time solutions and decisions (transport schedules, on-demand delivery, financial engineering of derivatives and credit-risk indicators, resilient manufacturing systems); (3) integrated resource management (mining, energy); (4) cloud computing and network virtualization (software network design, security, big data, wireless). Program 3 supports the transfer of technology through software development.

All of GERAD's successes are possible thanks to teamwork and synergy. Resounding thanks to the support team (35% administration, 65% research activities): Carole Dufour, Marie Perreault, Francine Benoit and Marilyne Lavoie. This skilled and committed team provides support in a number of activities, including the preparation of grant applications, the publication of over a hundred research papers every year in addition to the GERAD newsletter and scientific articles, the organization of a range of seminars, the design and maintenance of group members' websites, the organization and management of colloquiums and conferences, the day-to-day financial management, the operations of 12 research chairs and various teams that cover our 3 research programs and 20 research themes, the management and allocation of workspace, and the many other aspects that are critical to our day-to-day well-being and that help set conditions

fostering scientific production and academic training.

In the last four years, the computer team has undergone some significant changes, and is continuing to grow thanks to the arrival of the Canada Excellence Research Chair in Data Science for Real-Time Decision-Making. The IT team manages the operation of the computing infrastructure shared by GERAD and CIRRELT, which is supplemented as needed by access to the resources of Calcul Québec. The IT team is made up of Pierre Girard and Edoh Liagros Logo on the GERAD side, and Zahida Benraïs and Guillaume Michaud on the CIRRELT side. I want to thank them for the dynamism and commitment they demonstrate on a daily basis. They also often take over for professors in training students on the use of various software programs.

Last but not least, I want to give special thanks to the former directors—Alain Haurie, Richard Loulou, François Soumis, Pierre Hansen, Georges Zaccour and Roland Malhamé—who make up the GERAD’s wisdom committee—for always being there when needed.

One project that meant a lot to me was the creation of a new GERAD website, which was finally launched in the summer of 2014. We also took advantage of the opportunity and gave GERAD a new logo and a new look, after 35 years of existence.

GERAD always demonstrates a great vitality that benefits the community of researchers in decision mathematics as it does students, various partners and the users of our research and contracts. And 2014–2015 was no exception. GERAD organized and co-organized several seminar series, international colloquiums, summer schools, industrial problem workshops, and more.

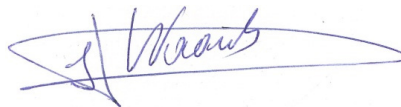
Ever-increasing numbers of our students and professors are receiving prestigious grants and awards. This year we want to draw special attention to François Soumis (Polytechnique Montréal) who received the 2014 Lionel-Boulet Award (one of the Prix du Québec), and to the appointment of Jean-François Cordeau (HEC Montréal) to the College of New Scholars, Artists and Scientists of the Royal Society of Canada.

Another new GERAD strength is the 2013 arrival of Professor Roussos Dimitrakopoulos (McGill University) and the Canada Research Chair in Sustainable Mineral Resource Development and Optimization Under Uncertainty. This has given GERAD’s mining theme a major impetus. Several GERAD teams are also consolidating around the theme of energy, which also happens to be one of Quebec’s strategic development axes. In connection with this, we want to highlight the appointment of Miguel Anjos (Polytechnique Montréal) to the position of Director of the Trottier Energy Institute, and underscore the cutting-edge equipment obtained by François Bouffard (McGill University). On a separate front, Erick Delage (HEC Montréal) was appointed chairholder of the Canada Research Chair in Decision Making Under Uncertainty.

GERAD will also be hosting 50% of the Canada Excellence Research Chair in Data Science for Real-Time Decision-Making, under the direction of Professor Andrea Lodi (Polytechnique Montréal). It will also benefit from the leverage provided by the new Institute for Data Valorization (IVADO) and its dynamic Scientific Director, François Soumis (Polytechnique Montréal), and Executive Director, Valérie Bécaert. Partner-based research is experiencing unprecedented development. These opportunities

are also sources of significant change that GERAD will have to contend with in the coming years.

I don’t doubt for a moment that my successor, Guy Desaulniers, will take on these challenges with great success. Thank you, Guy, for stepping up to the plate. I will now be part of the wisdom committee, and as such, will always be there to offer support when needed. GERAD also means laughter, conversation and shared lunches—I myself will gladly attest to that.



Jean-Philippe Waaub
Director, GERAD

2 – GENERAL PRESENTATION

Background

GERAD was created in 1979 by a group of professors and researchers from HEC Montréal, McGill University and Polytechnique Montréal. With solid infrastructural support from HEC Montréal and Polytechnique Montréal, and through the development of teaching activities involving research on decision analysis and operational research at the three institutions, GERAD's activities reached sufficient scope, in June 1988, to justify being converted into a Joint Research Centre of HEC Montréal, Polytechnique Montréal and McGill University. In 1996, the Université du Québec à Montréal became the fourth GERAD sponsor.

The following teachers have been GERAD directors:

1. Alain Haurie, HEC Montréal, from 1981 to December 31, 1988;
2. Richard Loulou, McGill University, January 1, 1989 to July 31, 1992;
3. François Soumis, Polytechnique Montréal, from August 1, 1992 to May 31, 1996;
4. Pierre Hansen, HEC Montréal, from June 1, 1996 to May 31, 2001;
5. Georges Zaccour, HEC Montréal, from June 1, 2001 to May 31, 2005;
6. Roland P. Malhamé, Polytechnique Montréal, from June 1, 2005 to April 30, 2011;
7. Jean-Philippe Waaub, Université du Québec à Montréal, from May 1, 2011 to April 30, 2015.

Mission

GERAD's mission is to:

- 1) Develop all aspects of decision mathematics in large technological, commercial and economic systems, and develop upstream modeling based on optimization, data mining, statistics and simulation.
- 2) Constantly push the limits of the size of systems we are able to analyze and optimize, and diversify their characteristics to follow emerging needs (transportation, telecommunications, environment, finance, energy, etc.).
- 3) Contribute to building collective wealth by training highly qualified staff, sharing promising knowledge and its applications, producing academic and general public publications, offering consulting to industry and creating spin-offs.

Objectives

- 1) To develop scientific techniques and methods (operations research, systems analysis, statistics, computer science and applied mathematics) to solve complex decision-making problems in organizations.
- 2) To develop fruitful cooperation with businesses, governmental organizations and other universities to ensure the relevance of the research and to disseminate its results.
- 3) To contribute to the education of MSc and PhD students and researchers (including postdoctoral interns).

Research orientations

GERAD is a multi-university centre and a vital forum for the development of operations research and the mathematics of decision theory in general. Its research orientations and fields of expertise are as follows:

Program 1 - Mathematical methods in support of decision making

This research focus brings together all theory-level efforts aimed at developing methods that support decision making in general and, primarily, pure optimization theory (static, dynamic, multi-agent, multi-criteria, deterministic, stochastic). It also includes mathematical modeling, statistical analysis and data mining, as they can lead to the formulation of optimization questions that are directly relevant to the nature of the decisions to be made.

Theme 1.1 - Convex and non-convex mathematical programming

Linear and non-linear optimization, interior point methods, global optimization, heuristics and meta-heuristics for optimization, non-smooth optimization, Stackelberg games, column generation, multi-criteria optimization.

Theme 1.2 - Combinatorial optimization, combinatorics, graph theory

Integer programming, mixed programming, graph theory, heuristics and meta-heuristics for optimization, polyhedral combinatorics.

Theme 1.3 - Game theory, analysis of dynamic systems, optimal control

Static and dynamic games, stabilization of dynamic systems, performance analysis for parameterized control laws, optimal control of deterministic and stochastic systems, adaptive control, robust control.

Theme 1.4 - Mathematical modeling, model identification, state estimation

Mathematical modeling in specific application areas, such as finance, econometrics, telecommunications, biology, hydrology, techno-economic models, energy and the environment. Parameter and state estimation problems as they pertain to the class of models in question.

Theme 1.5 - Statistics, data mining, probability and stochastic processes, artificial intelligence

Data mining based on statistical methods, classification approaches, neural network methods, mathematical statistics, variance analysis for estimators, expert systems.

Theme 1.6 - Simulation

Development of efficient and reliable Monte Carlo simulation techniques for stochastic optimization (of queuing systems in particular).

Theme 1.7 - Linear algebra and numerical analysis

This theme addresses the design of novel, direct or iterative, stable and efficient numerical methods for the solution of large linear or nonlinear systems of equations, and their application to numerical analysis problems, including optimization and optimal control. It also concerns the creative application of existing methods to such problems. Finally, it addresses implementation issues and high-performance computing.

Theme 1.8 - Continuous optimization

Optimization methods for problems with continuous first derivatives and for which evaluating those derivatives is affordable.

Theme 1.9 - Derivative-free methods

Optimization methods for problems in which the derivatives do not exist, are not available or are unreliable; black-box optimization.

Program 2 - Applications development in large-scale technological, commercial and economic systems

This research focus brings together all the significant applications that provide GERAD with practical modeling and optimization problems. Some of the applications can occasionally give rise to new questions, the answers to which can lead to important and lasting theoretical developments.

Theme 2.1 - Transportation systems

This theme covers transportation-related optimization applications, such as the construction of travel timetables and personnel schedules, as well as yield-management issues in the airline industry and in ground-transportation industries, including train, bus and truck fleets (in mining and forestry applications).

Theme 2.2 - Telecommunication systems

Planning in telecommunication networks for efficiency and reliability at minimal cost, optimal resource management in next-generation wireless systems, Internet quality-of-service assurance, Internet pricing, the optimal operation of call centers.

Theme 2.3 - Logistics, manufacturing systems, distribution systems, marketing

This focus brings together logistics applications for the manufacturing industry, health systems, manufacturing planning, the operation of manufacturing systems, distribution-centre management, and marketing.

Theme 2.4 - Energy systems, the environment

Includes sustainable growth, environmental pollution management, and the optimal management of energy resources, especially in the context of electricity generation.

Theme 2.5 - Health systems

Includes applications in hospital management, biostatistics, biotechnology and systems biology.

Theme 2.6 - Finance and econometrics

Includes applications in financial product management, econometric modeling, portfolio optimization and risk assessment.

Theme 2.7 - Engineering

This theme includes applications in all areas of engineering.

Theme 2.8 - Supply chain

This theme encompasses network design problems and the physical distribution of goods.

Program 3 - Commercial software for decision support

This focus brings together the centre's spin-off and technological-transfer activities, particularly with regard to free or commercialized software that is meant to support decision making.

Theme 3.1 - Scheduling software

- GALAHAD: Fortran 2003 Library of methods for continuous optimization (<http://galahad.rl.ac.uk>)
- GENCOL

Theme 3.2 - Pricing software

- CUTEst: A Constrained and Unconstrained Testing Environment with safe threads (<http://ccpforge.cse.rl.ac.uk/gf/project/cutest/wiki>)
- DrAMPL: Diagnostics and solver recommendation for continuous optimization (<http://www.gerad.ca/~orban/drampl>)
- NLPy: Modeling and solving environment for continuous optimization in Python (<https://github.com/dpo/nlpy>)
- NOMAD: Blackbox optimization (<http://www.gerad.ca/NOMAD>)
- PyKrylov: Iterative methods for linear systems in Python (<http://dpo.github.com/pykrylov>)
- PyOrder: Ordering methods for linear systems in Python (<http://dpo.github.com/pyorder>)

Theme 3.3 - Software for resource management

- AutoGraphiX: Computer-assisted graph theory (<https://www.gerad.ca/Gilles.Caporossi/agx>)

Strengths and abilities

Academic excellence and visibility: Leading group of major international centres focused on the bases of decision mathematics (Operations Research Center, MIT; Center for Operations Research, Rutgers; CORE, Université Catholique de Louvain; Konrad Zuse Centrum, Berlin; etc.) and related disciplines (statistical modeling, simulation, etc.).

Great ability to attract and train experts: Talented students and researchers attracted by the quality of the teams and their synergy, intense scientific leadership, a constant flow of well-known visitors, and the near certainty of an interesting industrial or academic job.

Wide international reputation: Proven over the past 30 years (at the very beginning thanks to the prestige of its founders). The centre includes editors associated with over 53 Canadian and international journals on operations and automation.

Experienced teams: Very well-established teams in column generation optimization, graph theory (AutoGraphiX software), data mining, game theory, environment, energy, statistics, simulation, transportation, telecommunications, finance, etc.

Several research chairs: Six Canadian chairs and six university chairs (approximately one chair for every five members): data mining, transport network optimization, distribution management, transportation logistics, stochastic dependence modeling, game theory and management, discreet nonlinear optimization in engineering, the Marianne Mareschal Chair for

the promotion of women in engineering, design engineering, optimization of communication networks, Senior DIGITEO Chair, Desautels Faculty Scholar.

Continuously updated academic vitality: Regular recruiting of promising young researchers who are often rising stars. Building on the presence of well-known researchers, whose stay is often made possible in part through GERAD financing.

Cutting-edge calculation capacities: Made possible through financing (infrastructure, FRQNT etc.) through resource-sharing with CIRRELT.

Top quality support and technical team: Including four computer technicians shared with CIRRELT who maintain and upgrade computer systems; and a support team that manages the finances, publications, grant requests, website updates and colloquium logistics and organization.

Human resources

Multidisciplinarity to meet emerging needs

GERAD puts in contact researchers from often very different disciplines: operational research, automation, statistics, computing, electrical engineering, chemical engineering, mechanical engineering, quantitative methods for management, financial engineers, environmental science, etc. What they have in common is their overall level of mathematical sophistication in addition to their interest in optimization, mathematical modeling and dynamic systems analysis. That's why, more than other centres, we feel that GERAD had the capacity to rapidly deploy forces to emerging needs (ex. ecology, environment, quantitative biology).

Commercializing and creating value from research

This may be the most significant of GERAD's special features: it has successfully created important spin-offs in the areas of ground and air transportation (ex. AD OPT) or in the study of techno-economic activity on greenhouse-gas levels (HALOA). The continuously updated knowledge at GERAD allows these companies to develop their product, profit and thereby continue to finance our research through contracts or grants. GERAD also trains the experts needed by these companies. Ex Pretio is the most recent spin-off that emerged from GERAD. It uses games theory in pricing problems (SNCF, Air Canada, Bell etc.).

3 – BOARD OF DIRECTORS



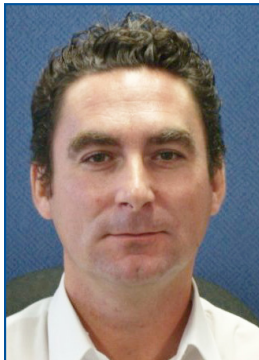
Michèle Breton

Full Professor
HEC Montréal



Robert Gagné

Director of the Research and Knowledge
Transfer Office
HEC Montréal



Guillaume Jandelle

Development Manager
AD OPT division of Kronos Canadian
Systems



Jean-Pierre Labelle

Director of the Office of Research/Centre
for Technological Development
Polytechnique Montréal



Kristina Öhrvall

Director, Strategic Initiatives, representing
Rose Goldstein, Vice-Principal, Research and
International Relations
Université McGill



Dominique Robitaille

Director of the Research and Creation
Office
Université du Québec à Montréal



Jean-Philippe Waaub

GERAD Director and Chairman of
the Board
Université du Québec à Montréal

4 – GERAD'S TEAM

REGULAR MEMBRES



Irène Abi-Zeid
Université Laval, Canada

- Multicriteria decision analysis
- Search theory (search and rescue, surveillance)
- Hydrological statistics and risk analysis



Miguel F. Anjos
Polytechnique Montréal, Canada

- Operations research and management science
- Optimization and optimal control theory
- Mathematical modelling



Charles Audet
Polytechnique Montréal, Canada

- Nonlinear optimization
- Global optimization
- Non-differentiable optimization
- Optimal design



Olivier Bahn
HEC Montréal, Canada

- Operational research
- Mathematical models in economics – energy – environment
- Climate change



Pierre Baptiste
Polytechnique Montréal, Canada

- Scheduling
- Production management
- Logistics



François Bellavance
HEC Montréal, Canada

- Cross-over and repeated measures design
- Road safety
- Data mining
- Applied statistics



Hatem Ben-Ameur
HEC Montréal, Canada

- Financial engineering
- Stochastic processes
- Stochastic simulation
- Dynamic programming
- Options pricing
- Risk measurement



Mathieu Boudreault
Université du Québec à Montréal, Canada

- Modeling and pricing corporate credit risk
- Modeling and pricing equity-linked insurance (segregated funds and variable annuities)
- Statistical and actuarial modeling of natural catastrophe risk (earthquakes and hurricanes)



François Bouffard
Université McGill, Canada

- Power system operation, planning and economics
- Demand response
- Flexibility in the power industry
- Mathematical programming



Tamer Boyaci
Université McGill, Canada

- Operations management



Michèle Breton
HEC Montréal, Canada

- Game theory
- Decision analysis
- Stochastic programming
- Mathematical models in finance and in energy



Peter Caines
Université McGill, Canada

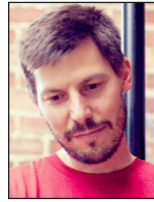
- Systems and control theory
- Stochastic systems
- Adaptive control
- Logic systems

REGULAR MEMBRES



Gilles Caporossi
HEC Montréal, Canada

- Artificial intelligence
- Data mining
- Neural networks
- Algorithmics
- Combinatorial optimization



Arthur Charpentier
Université du Québec à Montréal, Canada

- Insurance, actuarial, finance, econometrics, probability, statistics



Claudio Contardo
Université du Québec à Montréal, Canada

- Logistics
- Combinatorial optimization
- Operational research
- Mathematical programming
- Transportation systems



Jean-François Cordeau
HEC Montréal, Canada

- Logistics
- Transportation
- Combinatorial optimization
- Mathematical decomposition



Erick Delage
HEC Montréal, Canada

- Optimization under uncertainty
- Applications of operations research



Michel Denault
HEC Montréal, Canada

- Financial engineering
- Risk management
- Energy derivatives
- Environmental finance



Guy Desaulniers
Polytechnique Montréal, Canada

- Vehicle routing problems
- Scheduling problems
- Decomposition methods in mathematical programming



Jacques Desrosiers
HEC Montréal, Canada

- Operational research
- Air transportation
- Rail transportation
- Distribution - schedules
- Combinatorial optimization



Roussos Dimitrakopoulos
Université McGill, Canada

- Stochastic modelling and optimization
- Mine optimization and strategic planning
- Reserve-Resource estimation
- Mineral resource management
- Risk assessment and decision making under uncertainty



Pierre Duchesne
Université de Montréal, Canada

- Survey sampling
- Time series analysis
- Multivariate analysis
- Econometrics



Debbie Dupuis
HEC Montréal, Canada

- Extreme values
- Robustness
- Data analysis
- Statistical modeling
- Statistical computing



Issmail El Hallaoui
Polytechnique Montréal, Canada

- Mathematical programming
- Combinatorial optimization
- Online optimization and approximation algorithms
- Scheduling and vehicle routing
- Transportation (air, urban, rail)
- Software development

REGULAR MEMBRES



Marc Fredette
HEC Montréal, Canada

- Longitudinal data analysis
- Prediction
- Biostatistics
- Random-effect models
- Bayesian statistics



Jean-François Frigon
Polytechnique Montréal, Canada

- Wireless networks
- Multiple-antenna systems
- Signal processing algorithms for digital communications
- Cross-layer communications algorithms
- Wireless multiple-access techniques



Michel Gamache
Polytechnique Montréal, Canada

- Optimal real-time fleet management system
- Optimal dispatching system
- Monthly scheduling in air transportation
- Optimal mine production scheduling



Geneviève Gauthier
HEC Montréal, Canada

- Differential stochastic calculation
- Stochastic processes
- Probability
- Derivatives (finance)
- Financial modeling
- Financial engineering



Christian Genest
Université McGill, Canada

- Multivariate analysis, nonparametric statistics, extreme-value theory
- Applications in actuarial science, finance, and hydrology
- History of statistics, scientometry



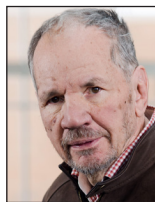
Luc-Alain Giraldeau
Université du Québec à Montréal, Canada

- Scrounging and kleptoparasitism
- Interference, aggression and resource defense
- Animal cognition, information use and living in groups
- Factors affecting the size of animal groups



Mehmet Gumus
Université McGill, Canada

- Customer behavior models
- Joint pricing and inventory management
- Supply risk management



Pierre Hansen
HEC Montréal, Canada

- Operational research
- Global optimization
- Automated classification
- Graph theory
- Localization



Alain Hertz
Polytechnique Montréal, Canada

- Combinatorial optimization
- Algorithms in graph theory
- Evolutionary algorithms
- Scheduling and timetabling
- Distribution and transportation problems



Raf Jans
HEC Montréal, Canada

- Development of algorithms
- Integer and linear programming
- Logistics
- Mathematical modelling
- Operations management



Brigitte Jaumard
Université Concordia, Canada

- Telecommunications
- Global and combinatorial optimization
- Automatic classification
- Artificial intelligence
- Health-care applications
- Logistics and localization



Michael Kokkolaras
Université McGill, Canada

- Multidisciplinary optimization
- Engineering design
- Uncertainty quantification

REGULAR MEMBRES



Chantal Labbé
HEC Montréal, Canada

- Stochastic process
- Probability
- Financial engineering
- Portfolio optimization
- Optimal stochastic control



Gilbert Laporte
HEC Montréal, Canada

- Combinatorial optimization
- Transportation
- Operational research



Denis Larocque
HEC Montréal, Canada

- Nonparametric methods in statistics
- Multivariate data analysis
- Data mining
- Statistical consulting



Fabrice Larribe
Université du Québec à Montréal, Canada

- Modeling of populations genealogy
- Mapping genetic



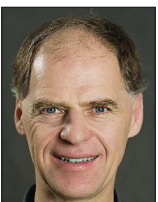
Sébastien Le Digabel
Polytechnique Montréal, Canada

- Blackbox optimization
- Derivative-free methods
- Industrial applications
- Optimization software



Jérôme Le Ny
Polytechnique Montréal, Canada

- Control theory
- Autonomous systems and mobile robotics
- Design and verification of networked and embedded control systems
- Security and privacy issues in cyber-physical systems
- Air transportation



Pierre L'Écuyer
Université de Montréal, Canada

- Simulation
- Random number generation
- Sensitivity analysis and stochastic optimization
- Efficiency improvement



Shanling Li
Université McGill, Canada

- Stochastic dynamic techno-economics models
- Scheduling problems in industry



Brenda MacGibbon
Université du Québec à Montréal, Canada

- Mathematical statistics
- Decision theory
- Biostatistics



Aditya Mahajan
Université McGill, Canada

- Control systems
- Telecommunication systems
- Optimization, control and operations research
- Telecommunication networks



Malhamé, Roland P.
Polytechnique Montréal, Canada

- Modeling and control of stochastic systems
- Optimal operation of manufacturing networks
- Optimal operation of next-generation communication networks



Odile Marcotte
Université du Québec à Montréal, Canada

- Combinatorial optimization
- Graph theory
- Integer programming

REGULAR MEMBRES



Dominique Orban
Polytechnique Montréal, Canada

- Nonlinear optimization
- Mathematical programming
- Operational research



Vahid Partovi Nia
Polytechnique Montréal, Canada

- Learning and inference theories
- Applied statistics
- Biostatistics
- Multivariate analysis
- Genetics



Michel Perrier
Polytechnique Montréal, Canada

- Process systems (on-line optimization, nonlinear control)
- Design integration and control
- Chemical and biochemical reactors



Sylvain Perron
HEC Montréal, Canada

- Operations research
- Combinatorial optimization
- Global optimization
- Reasoning under uncertainty
- Data mining



Jean-François Plante
HEC Montréal, Canada

- Statistical inference
- Weighted methods
- Likelihood methods
- Dependence models (copulas)
- Nonparametric statistics



Saibal Ray
Université McGill, Canada

- Operations management



Djamel Rebaïne
Université du Québec à Chicoutimi, Canada

- Optimisation combinatoire
- Ordonnancement



Bruno Rémillard
HEC Montréal, Canada

- Stochastic volatility
- Financial engineering
- Empirical processes
- Time series
- Nonlinear filtering



Diane Riopel
Polytechnique Montréal, Canada

- Logistics
- Value analysis
- Product engineering
- Materials handling
- Facility layout
- Warehousing



Brunilde Sansò
Polytechnique Montréal, Canada

- Design
- Reliability
- Synthesis and performance of wireline and wireless broadband networks



Gilles Savard
Polytechnique Montréal, Canada

- Bi-level programming
- Airline scheduling
- Yield management
- Combinatorial optimization



François Soumis
Polytechnique Montréal, Canada

- Shift scheduling
- Vehicle routing and scheduling
- Air and rail transportation
- Combinatorial optimization

REGULAR MEMBRES



Sihem Taboubi
HEC Montréal, Canada

- Marketing models
- Marketing research
- Management of marketing channels
- Promotions



Adrian Vetta
Université McGill, Canada

- Theoretical computer science
- Algorithmic game theory
- Discrete mathematics
- Combinatorial optimization



Jean-Philippe Waub
Université du Québec à Montréal, Canada

- Environmental assessment, multicriteria analysis
- Public participation, environmental mediation
- Technico-economic modeling of energy and environmental relations
- Ecology mapping and local planning: GIS (Geographical Information System) integration
- Integrated forestry resource management



François Watier
Université du Québec à Montréal, Canada

- Probabilistic models in finance



Georges Zaccour
HEC Montréal, Canada

- Game theory
- New product diffusion
- Transportation and distribution of oil and gas products
- Environmental management
- Quantitative marketing

ASSOCIATED MEMBRES



Daniel Aloise
Universidade Federal do Rio Grande do Norte, Brazil

- Classification
- Combinatorial optimization
- Column generation
- Data mining
- Metaheuristic methods



David Avis
Kyoto University, Japan

- Discrete optimization
- Polyhedral computation
- Discrete and computational geometry



Sarah Ben Amor
Université d'Ottawa, Canada

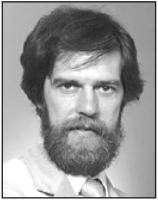
- Management information systems



Jack Brimberg
Collège militaire royal du Canada, Canada
Associate Professor, HEC Montréal, Canada

- Mathematical programming
- Production management and operations management

ASSOCIATED MEMBRES



Fabien Chauny
HEC Montréal, Canada

- Applied statistics
- Operational research



Pascal Côté
Rio Tinto Alcan, Canada

- Operational research and stochastic optimization applied to the management of water systems
- Linear and nonlinear optimization



Javier de Frutos
Universidad de Valladolid, Spain

- Numerical analysis
- Modeling and simulation
- Computational methods in finance



Christophe Duhamel
ISIMA, France

- Computer science



Jean-Pierre Dussault
Université de Sherbrooke, Canada

- Computer science
- Applied mathematics



Anissa Frini
Université du Québec à Rimouski, Canada

- Multi-criteria decisions
- Multi-period decisions in a context of uncertainty
- Sustainable development



André Girard
INRS – Énergie, Matériaux et Télécommunications & Polytechnique Montréal, Canada

- Telecommunication networks
- Mathematical programming applied to telecommunications
- Numerical analysis



Minyi Huang
Caleton University, Canada

- Mean field stochastic control and game theory
- Stochastic control and its applications
- Coordination and optimization in stochastic multi-agent systems
- Wireless network resource allocation



Maryse Labriet
EOI-École de Management, Spain

- Techno-economic modelling
- Énergie
- Technology
- Policy
- Climate
- Mitigation
- Adaptation



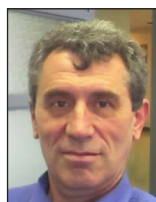
Guiomar Martín-Herrán
Universidad de Valladolid, Spain

- Applied optimal control
- Economic growth and environmental problems
- Differential games



David McDonald
Université d'Ottawa, Canada

- Applied probability
- Nonparametric regression
- Quality control
- Analysis of ion channels in cellular membranes



Nenad Mladenović
Université de Valenciennes, France

- Metaheuristic methods
- Numerical algorithms and mathematical programming methods
- Localization, transportation, clustering and data mining

ASSOCIATED MEMBRES



Jordan Ninin

ENSTA Bretagne, France

- Applications in electrical engineering
- Affine arithmetic
- Affine relaxation techniques
- Branch-and-Bound algorithm with limited memory
- Optimization of polygons
- Black-box optimization



Monia Reik

Université Laval, Canada

- Combinatorial optimization
- Personnel scheduling
- Auction mechanisms
- Emergency logistics



Manuel Vieira

Universidade Nova de Lisboa, Portugal

- Semidefinite optimization
- SAT and Max-SAT
- Interior point methods



Nicolas Zufferey

Université de Genève, Switzerland

- Combinatorial optimization
- Algorithms in graph theory
- Metaheuristics
- Scheduling

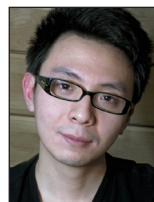
VISITING MEMBRES



Diego Amaya

Université du Québec à Montréal, Canada

- Financial engineering
- Risk management
- Derivatives
- Asset pricing
- Credit risk, and fixed income



Yang Cai

Université McGill, Canada

- Algorithmic game theory
- Applied probability
- Online algorithms
- Logic



Fausto Errico

École de technologie supérieure, Canada

- Transit system modeling and planning
- Flexible transit systems
- City logistics
- Vehicle routing problems
- Combinatorial optimization
- Column generation



Marius Solomon

Northeastern University, USA

- Supply-chain management
- Logistics
- Routing and scheduling



Jean-Philippe Vial

Université de Genève, Switzerland

- Mathematical programming
- Environmental modeling
- Manufacturing management
- Analytic center cutting plane method

HONORARY MEMBRES



Jean-Louis Goffin
Université McGill, Canada

- Mathematical programming
- Analytic center cutting plane method



Alain Haurie
HEC Montréal, Canada

- Dynamic game theory
- Stochastic control in risk management and manufacturing systems
- Energy and environmental management



Richard Loulou
Université McGill, Canada

- Large-scale optimization
- Bottom-up energy models
- Energy economics



Édouard Wagner

- Discrete event systems
- Max-algebra and ordered sets
- Combinatorial optimization: sequencing, lotstreaming, etc.

COLLABORATORS

Stéphane Alarie

Institut de recherche d'Hydro-Québec (IREQ), Canada

Mounira Groiez

Polytechnique Montréal, Canada

Nahid Masoudi

HEC Montréal, Canada

Pierre Trudeau

GIRO Inc., Canada

RESEARCHERS

Mustapha Aouchiche

HEC Montréal, Canada

Mohamad Aziz

Université McGill, Canada

Majid Bazrafshan

HEC Montréal, Canada

Frédéric Ebacher

Polytechnique Montréal, Canada

Camille Fertel

GERAD, Canada

Amina Lamghari

Université McGill, Canada

François Lessard

Polytechnique Montréal, Canada

Joanne Leveillé

Université du Québec à Montréal, Canada

Gonzalo Ignacio Nelis Suazo

Polytechnique Montréal, Canada

Benoit Rochefort

Polytechnique Montréal, Canada

Rebecca Sueur

Université du Québec à Montréal, Canada

Christophe Tribes

Polytechnique Montréal, Canada

Lingqing Yao

Université McGill, Canada

INVITED RESEARCHERS

Bernardetta Addis
École de Mines de Nancy, France

Hansjoerg Albrecher
HEC Lausanne, Switzerland

Aleksandr Aravkin
IBM TJ Watson Research Center, USA

Stefan Behringer
Universität Duisburg-Essen, Germany

Hatem Ben Amor
AD OPT, a Kronos Division, Canada

Georgia Benkart
University of Wisconsin, USA

Cédric Bentz
CNAM-CEDRIC, France

François Bergeron
Université du Québec à Montréal, Canada

Jean Bigeon
Laboratoire G-SCOP, France

Alexei Borodin
MIT, USA

Zdravko I. Botev
The University of New South Wales, Australia

Paul Bourgade
New York University, USA

Steve Boyer
Université du Québec à Montréal, Canada

Francis Brown
Institut des Hautes Études Scientifiques, France

Alessandra Buratto
University of Padova, Italy

Leandro Callegari Coelho
Université Laval, Canada

Eglantine Camby
Université libre de Bruxelles, Belgium

Antonio Capone
Politecnico di Milano, Italy

Giuliana Carello
Politecnico di Milano, Italy

Richard J. Caron
University of Windsor, Canada

Pierre Colmez
Centre national de la recherche scientifique, France

Antonio J. Conejo
The Ohio State University, USA

Octav Cornea
Université de Montréal, Canada

Marie-Christine Costa
ENSTA ParisTech, France

Guillaume Deffuant
Irstea – Lisc, France

John E. Dennis, Jr.
Rice University, USA

Skander Essegheir
Koç University, Turkey

David Fuller
University of Waterloo, Canada

Steven A. Gabriel
University of Maryland, USA

Ekaterina Gromova
Saint Petersburg State University, Russia

Mohammad Jahromi
University of Waterloo, Canada

Zohreh Javanshiri
Ferdowsi University of Mashhad, Iran

Michel Yevenunye Keoula
Bielefeld University, Germany

Nicolas Klein
Université de Montréal, Canada

Sonja Köke
Universität de Hambourg, Germany

Alex Kontorovich
Rutgers University, USA

Peter M. Kort
Tilburg University, the Netherlands

Stephen S. Kudla
University of Toronto, Canada

Andrew D. Lewis
Queen's University, USA

Andrea Lodi
Polytechnique Montréal, Canada

Robert Lund
Clemson University, USA

Andreas A. Malikopoulos
Oak Ridge National Laboratory, USA

Bertrand Mareschal
Université libre de Bruxelles, Belgium

Hadrien Mélot
Université de Mons, Belgium

Abdelmoutalib Metrane
École Nationale des Sciences appliquées de Khouribga, Morocco

Fatima Zahra Mhada
École Nationale Supérieure d'Informatique et d'Analyse des Systèmes (ENSIAS), Morocco

William Minicozzi
MIT, USA

Konstantin Mischaikow
Rutgers University, USA

Mehdi Molkarraie
Universitat Pompeu Fabra de Barcelona, Spain

Sophie Morel
Princeton University, USA

Éric Moulines
Télécom ParisTech, France

Maureen W. Murage
Cornell University, USA

Alessandro Navarra
Universidad Católica del Norte, Chile

Angelia Nedich
University of Illinois at Urbana-Champaign, USA

Claire Nicolas
IFP Energies nouvelles, France

Nilima Nigam
Simon Fraser University, Canada

Yi Ouyang
University of Michigan, USA

Mohamed Ouzineb
INSEA, Morocco

Elena Parilina
Saint Petersburg State University, Russia

Pierre-Olivier Pineau

INVITED RESEARCHERS

HEC Montréal, Canada

Kartik Prasanna

University of Michigan, USA

Marco Premoli

Université Pierre et Marie Curie, France

Michael Rabbat

Université McGill, Canada

Thomas Ransford

Université Laval, Canada

Edwin Romeijn

Georgia Institute of Technology, USA

Mohammed Saddoune

Université Hassan II Casablanca, Morocco

Patrick Saint-Pierre

Université Paris-Dauphine, France

Laure Saint-Raymond

École normale supérieure (ENS), France

Sylvain Sardy

Université de Genève, Switzerland

Alistair Savage

Université d'Ottawa, Canada

Wil H.A. Schilders

Eindhoven University of Technology,
the Netherlands

Stefano Secci

Université Pierre et Marie Curie, France

Nevroz Sen

Université McGill, Canada

Bruce Shepherd

Université McGill, Canada

Suzanne M. Shontz

The University of Kansas, USA

Afzal Siddiqui

University College London, United Kingdom

Philippe St-Jean

Polytechnique Montréal, Canada

Boumedyen Taibi

Université de Saida, Algeria

Farzin Taringoo

The University of Melbourne, Australia

Stéphane Tchung-Ming

IFP Energies nouvelles, France

Abdelwahed Trabelsi

Institut supérieur de gestion de Tunis (ISG),
Tunisia

Navneet Vidyarthi

Université Concordia, Canada

Martin Wainwright

University of California, Berkeley, USA

Stefan M. Wild

Argonne National Laboratory, USA

Daniel T. Wise

Université McGill, Canada

Cees Withagen

VU Amsterdam, the Netherlands

Stefan Wrzaczek

Vienna University of Technology, Austria

Fang Yao

University of Toronto, Canada

Yanchong Karen Zheng

MIT, USA

POSTDOCTORAL FELLOWS

Xiaoyu Bai

Polytechnique Montréal, Canada

Eva Barrena Algara

HEC Montréal, Canada

Didier Beloin-Saint-Pierre

Polytechnique Montréal, Canada

Claire Bernard

HEC Montréal, Canada

Silvia Boiardi

Polytechnique Montréal, Canada

Nicolas Bousquet

Université McGill, Canada

Hatice Çalik

HEC Montréal, Canada

Pierre-Luc Carpentier

HEC Montréal, Canada

Wyeon Chan

Université de Montréal, Canada

Iman Dayarian

Polytechnique Montréal, Canada

Franklin Djeumou Fomeni

Polytechnique Montréal, Canada

Abdelalim Farag

Université de Montréal, Canada

Ioannis Fragkos

HEC Montréal, Canada

Luca G. Gianoli

Polytechnique Montréal, Canada

Julio C. Góez

Polytechnique Montréal, Canada

Ryan Goodfellow

Université McGill, Canada

Mohamed Helwa

Université McGill, Canada

Arman C. Kizilkale

Polytechnique Montréal, Canada

Hichem Klabi

Université Laval, Canada

Moussa Kounta

Université du Québec à Montréal, Canada

José Daniel López Barrientos

HEC Montréal, Canada

Wissem Maazoun

HEC Montréal, Canada

Ilnur Minniakhmetov

Université McGill, Canada

Luis Montiel

Université McGill, Canada

Crispin Mutshinda

HEC Montréal, Canada

Jérémy Omer

Polytechnique Montréal, Canada

Cosmin Padurarur

Université McGill, Canada

Diego Galindo Pecin

Polytechnique Montréal, Canada

Marie Pelleau

Université de Montréal, Canada

Fei Qin

Université McGill, Canada

Puduru Viswanadha Reddy

HEC Montréal, Canada

Nazim Régnard

Université de Montréal, Canada

Nabila Remli

Université Laval, Canada

Nevroz Sen

Université McGill, Canada

Bastien Talgorn

Université McGill, Canada

Elena Tamayo-Mas

Université McGill, Canada

Duygu Tas

HEC Montréal, Canada

Mehdi Towhidi

Polytechnique Montréal, Canada

Nikola van Omme

Polytechnique Montréal, Canada

Alexandra van Wijk

Université McGill, Canada

Binxin Wu

Université McGill, Canada

Ray Zhang

Université McGill, Canada

TRAINEES

Mohamed Ali Akari

École Polytechnique de Tunisie, Tunisia

Ali Alnashashibi

Université McGill, Canada

Sai Anirudh Kondaveeti

Indian Institute of Technology Guwahati, India

Alexandre Arsenault

Polytechnique Montréal, Canada

Laura Artigas Aranda

Polytechnic University of Catalonia, Spain

Niels-Christian Bagger

Technical University of Denmark, Denmark

Abderrahman Bani

École Nationale des Sciences appliquées de Khouribga, Morocco

Melek Ben Othman

École Polytechnique de Tunisie, Tunisia

TRAINEES

Radia Benheddi

HEC Montréal, Canada

Alexis Bretin

École des mines de Nantes, France

Fatma Chaabene

École Polytechnique de Tunisie, Tunisia

Geoffroy Chevalier

École Polytechnique, France

Pierre Courteille

Université de Montpellier 2, France

Anne-Sophie Crélot

Université de Namur, Belgium

Gauvin Devillez

Université de Mons, Belgium

Frédéric Ebacher

Polytechnique Montréal, Canada

Amal Feriani

École Polytechnique de Tunisie, Tunisia

Pierre Gabet

École Polytechnique, France

Hadrien Godard

ENSTA ParisTech, France

Olivier Godard

HEC Montréal, Canada

Rachid Hassani

Polytechnique Montréal, Canada

Ines Henchiri

École Polytechnique de Tunisie, Tunisia

Fernando Kentaro Inaba

Universidade Federal do Espírito Santo, Brazil

Stéphane Jacquet

Télécom SudParis, France

Elham Karimi

Polytechnique Montréal, Canada

Sana Khelifi

École Polytechnique de Tunisie, Tunisia

Babak Khorramabadi Zad

Polytechnique Montréal, Canada

Nicholas Kwan-Wong

University of Alberta, Canada

Louis Lallemant

AgroParisTech, France

Quentin Laudereau

Mines ParisTech, France

Jules Lemonde-Trudeau

Polytechnique Montréal, Canada

Salah-Eddine Makhloufi

ENSA Tanger, Morocco

Shazmane Mandjee

Université du Québec à Montréal, Canada

Alexis Mocellin

École Polytechnique, France

Tamires Nascimento Pereira

Universidade Federal do Espírito Santo, Brazil

Moncef Ilies Nasri

Polytechnique Montréal, Canada

Fabrice Nonez

École Polytechnique, France

Srinivasan Ramanagopal

Manikandasriram

Indian Institute of Technology Madras, India

Thomas Ridremont

Université Catholique de l'Ouest, France

Tristan Rigaut

ENSTA ParisTech, France

Vilmar Jefte Rodrigues De Sousa

Polytechnique Montréal, Canada

Chérifa Sâadi

École Nationale des Sciences de l'Informatique, Tunisia

Cherif Sellal

Université Toulouse III - Paul Sabatier, France

Akshita Sukhlecha

Indian Institute of Technology Roorkee, India

Adil Tahir

Polytechnique Montréal, Canada

Luca Trapin

IMT Institute for Advanced Studies Lucca, Italy

Marjolein Veenstra

University of Groningen, the Netherlands

Nha Vo-Thanh

Université d'Anvers, Belgium

Anouar Zarroug

École Polytechnique de Tunisie, Tunisia

TECHNICAL AND ADMINISTRATIVE STAFF

Benoît, Francine

Edition coordinator

Benraïs, Zahida

Systems analysts

Dufour, Carole

Administrative support coordinator

Girard, Pierre

Analyst

Lavoie, Marilyne

Editorial technician

Lavoie-LeBlanc, Valérie

Editorial technician

Logo, Edoh Liagros

Micro-computer technician

Michaud, Guillaume

Micro-computer technician

Perreault, Marie

Executive secretary

5 – GRADUATED STUDENTS

Ph.D. (26 graduated)

HEC Montréal

Sebri, Mouna; Store brand's performance: A cross-country and a cross-category analysis, 09/2008-01/2015, Department of Decision Sciences, administration, G. Zaccour

Polytechnique Montréal

Azarfar, Arash; Employing cross layer mechanisms to provide differentiated reliability in cognitive radio networks, 01/2009-06/2014, Department of Electrical Engineering, B. Sansò, J.-F. Frigon

Bellemare, Jocelyn; Variables stratégiques fondamentales et cardinalité nécessaires au vêtement sur-mesure de masse pour hommes, 01/2008-12/2014, Department of Mathematics and Industrial Engineering, P. Baptiste, S. Carrier

Boiardi, Silvia; Radio planning and management of energy-efficient wireless access networks, 01/2011-07/2014, Department of Electrical Engineering, B. Sansò, A. Capone

Bolouki, Sadegh; Linear consensus algorithms: structural properties and connections with Markov chains, 08/2009-09/2014, Department of Electrical Engineering, R.P. Malhamé

Gianoli, Luca G.; Energy-Aware Traffic Engineering for Wired IP Networks, 01/2011-07/2014, Department of Electrical Engineering, B. Sansò

Hoang, Lê Nguyễn; Conception bayésienne de mécanismes et quantification de l'équité appliquées à la construction d'horaires personnalisés, 01/2012-01/2015, Department of Mathematics and Industrial Engineering, F. Soumis, G. Zaccour

Hosseinalifam, Morad; A mathematical programming framework for network capacity control in customer choice-based revenue management, 09/2009-08/2014, Department of Mathematics and Industrial Engineering, G. Savard

Lasalle-Ialongo, David; Problème d'affectation des types d'avion aux vols : optimisation robuste et intégration de la demande de passagers, 08/2008-11/2014, Department of Mathematics and Industrial Engineering, G. Desaulniers

Lauzon, Alexandre Jean; Modèle d'aide à la conception de système d'entreposage pour le milieu hospitalier québécois, 01/2008-12/2014, Department of Mathematics and Industrial Engineering, D. Riopel

Li, Xingliang; MIMO communications with dynamic radiation pattern diversity, 09/2007-04/2015, Department of Electrical Engineering, J.-F. Frigon

Maazoun, Wissem; Conception et analyse d'un système d'optimisation de plans de vol pour les avions, 01/2009-04/2015, Department of Mathematics and Industrial Engineering, F. Soumis, A. Saucier, S. Dufour

Perea-Vega, Diego Enrique; Resource allocation algorithms for MIMO-OFDMA networks, 06/2007-06/2014, Department of Electrical Engineering, J.-F. Frigon, A. Girard

Riquelme-Rodríguez, Juan-Pablo; Le problème périodique de tournées sur les arcs avec contraintes de capacité et de gestion de stocks, 09/2010-06/2014, Department of Mathematics and Industrial Engineering, M. Gamache, A. Langevin

Vakilian, Vida; Mimo communication systems with reconfigurable antennas, 06/2009-06/2014, Department of Electrical Engineering, J.-F. Frigon

Université de Montréal

Jena, Sanjay Dominik; Dynamic facility location with modular capacities: Models, algorithms and applications in forestry, 09/2009-09/2014, Department of Computer Science and Operations Research, B. Gendron, J.-F. Cordeau

Simard, Clarence; Modélisation de la liquidité et stratégies de couvertures, 09/2010-12/2014, Department of Mathematics and Statistics, B. Rémillard

Université Concordia

Hoang, Hai Anh; Scalable column generation models and algorithms for optical network planning problems, 01/2008-08/2014, Department of Computer Science & Software Engineering, B. Jaumard

Université McGill

Goodfellow, Ryan; Stochastic programming for large scale global mine optimization, 09/2009-08/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Jahanbani Ardakani, Ali; Rapid and robust identification of umbrella contingencies in large power systems, 02/2011-11/2014, Department of Electrical and Computer Engineering, F. Bouffard

Laekhanukit, Bundit; Inapproximability of combinatorial problems in subexponential-time, 09/2010-08/2014, School of Computer Science, A. Vetta

Montiel, Luis; On globally optimizing a mining complex under supply uncertainty: Integrating components from deposits to transportation systems, 09/2009-08/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Nikoofal, Mohammad Ebrahim; Risk management under information asymmetry: Applications in supply disruption, 09/2009-08/2014, Desautels Faculty of Management, M. Gumus

Autres universités

de los Santos, Alicia; Rapid transit network design and line planning, 06/2008-11/2014, University of Sevilla, Spain, J.A. Mesa, G. Laporte

Fiorotto, Diego; Hybrid solution methods for the parallel machine lot sizing problem, 10/2013, 09/2014, Universidade Estadual Paulista «Júlio de Mesquita Filho» (UNESP), Brazil, S.A. de Araujo, R. Jans

Grothe, Michael; The impact of market structure on innovation incentives, 09/2009-10/2014, Bielefeld University, Germany, H. Dawid, G. Zaccour

M.Sc. (83 graduated)

HEC Montréal

Abdellilah, Nafia; Exploitation informatique de données financières de marché, 06/2013-08/2014, Department of Decision Sciences, option ingénierie financière, H. Ben-Ameur

Abdul-Menhem, Hesham; Prévission de faillite : ratios bruts versus ratios relatifs, 06/2012-08/2014, Department of Decision Sciences, option ingénierie financière, H. Ben-Ameur

- Ammari, Abderrahim; Optimisation de processus de remplissage des bacs au mezzanine du centre de distribution de Boucherville de Rona inc, 08/2012-10/2014, Department of Decision Sciences, option méthodes analytiques de gestion, S. Perron
- Assaf, Lynn; Forecasting model for PW100 engines aftermarket demand, 09/2012-02/2015, Department of Decision Sciences, option intelligence d'affaires, F. Bellavance
- Beaulieu, Vincent; Développement d'un modèle de prévision des résultats des matchs de hockey de la LNH, 12/2014-04/2015, Department of Decision Sciences, option intelligence d'affaires, D. Larocque
- Ben Mustapha, Fatma Khadija; Integration of competitiveness indicators in the modeling of international logistics networks, 01/2013-09/2014, Department of Logistics and Operations Management, J.-F. Cordeau
- Chaudru de Raynal, Sophie; Rendement total, 09/2014-12/2014, Département de sciences de la décision, option ingénierie financière, M. Denault
- Chouinard, Jean- François; Prévision du désabonnement chez Desjardins, 10/2013-09/2014, Department of Decision Sciences, option intelligence d'affaires, D. Larocque
- Desnoyers, Guillaume; Projet dirigé en entreprise à PSP Investments, 09/2013-01/2015, Department of Decision Sciences, option ingénierie financière, G. Gauthier
- Duranceau-Desmarais, Vincent; Évaluation de la prime à terme des taux d'intérêts, 09/2012-12/2014, Department of Decision Sciences, option ingénierie financière, B. Rémillard
- Dussarat, Mélanie; Analyse comparative de la performance d'indices boursiers islamiques et conventionnels, 09/2012-06/2014, Department of Decision Sciences, option ingénierie financière, B. Rémillard
- Eytayo, Mohamed Moufid; Approche de théorie des jeux pour l'analyse des systèmes de paiement interbancaires, 09/2007-06/2014, Department of Decision Sciences, option ingénierie financière, M. Breton
- Guenouni, Ahmed; Analyse des stratégies de fidélisation, 06/2014-02/2015, Department of Decision Sciences, option intelligence d'affaires, D. Larocque
- Hedroug, Amine; Création d'un entrepôt de données sur le prix des produits pétroliers raffinés au Québec, 05/2014-02/2015, Department of Decision Sciences, option intelligence d'affaires, D. Larocque
- Irie Bi Tiesse, Théophile; Développement d'un modèle stochastique tenant compte de la corrélation spatiale pour le rayonnement solaire au Canada, 07/2013-08/2014, Department of Decision Sciences, option méthodes analytiques de gestion, J.-F. Plante
- Juste, Marie-Emmanuelle; Modèle de prévision des prix horaires de l'électricité dans plusieurs marchés nord-américains, 09/2014-12/2014, Department of Decision Sciences, option ingénierie financière, M. Denault
- Kubler, Lisa; Identifier des KPI et créer des tableaux de bord pour comprendre le trafic internet d'un site web d'une université canadienne, 01/2014-09/2014, Department of Decision Sciences, option intelligence d'affaires, M. Fredette
- Labrecque, Jonathan; Développement de mesures pour l'analyse de sentiments en text mining, 03/2013-04/2015, Department of Decision Sciences, option intelligence d'affaires, G. Caporossi
- Legendre-Bilodeau, Sarah; Analyse de l'efficacité des succursales d'une institution financière, 09/2012-12/2014, Department of Decision Sciences, option intelligence d'affaires, M. Fredette
- Marcil, Alexandra; Effet de l'abaissement du taux d'alcoolémie à 0,05% assorti de mesures administratives sur les accidents routiers mortels liés à l'alcool au Canada, 09/2013-02/2015, Department of Decision Sciences, option intelligence d'affaires, F. Bellavance
- Mensah, Hervé; Les techniques d'exploitation de données (Data Mining) à l'aide du logiciel R, 09/2012-07/2014, Department of Decision Sciences, option intelligence d'affaires, F. Bellavance
- Munteanu, Andrei; Beating the house: Exploiting inefficiencies in the major league baseball betting market, 09/2012-03/2015, Department of Decision Sciences, option ingénierie financière, D.J. Dupuis
- Padjip, Yannick; Analyse du comportement des clients prépayés de MTN Cameroon, 12/2014-01/2015, Department of Decision Sciences, option intelligence d'affaires, D. Larocque
- Papineau, Simon; Prévision de la demande de maintenance de moteurs d'avion, 09/2012-05/2015, Department of Decision Sciences, option méthodes analytiques de gestion, F. Bellavance
- Peyrol, Fabien; Une méthodologie de prise de décision pour la délocalisation en logistique internationale, 05/2011-04/2015, Department of Logistics and Operations Management, J.-F. Cordeau
- Rachdi, Fatiha; L'impact des junkets sur la performance financière des films, 05/2014-01/2015, Department of Decision Sciences, option intelligence d'affaires, D. Larocque
- Reisi, Noushin; Le secteur résidentiel au Canada : analyses avec le modèle TIMES-Canada, 09/2010-03/2015, Department of Decision Sciences, option méthodes analytiques de gestion, O. Bahn, J.-P. Waub
- Saboonchi, Behnoosh; Analysis of the evolution of the scientific collaboration among the HEC Montréal professors, 08/2011-07/2014, Department of Decision Sciences, option méthodes analytiques de gestion, G. Caporossi, P. Hansen
- Saucedo-Prado, Luis-Lenin; Symmetry breaking in MIP models applied to logistics and production problems, 09/2012-10/2014, Department of Logistics and Operations Management, R. Jans
- St-Amand, Nicolas; Developing optimal churn models in video games, 04/2014-02/2015, Department of Decision Sciences, option intelligence d'affaires, M. Fredette
- Tabet, Nassim; Studying injury risks for apprentices in low-skilled jobs, 11/2013-12/2014, Department of Decision Sciences, option intelligence d'affaires, M. Fredette
- Tran, Quang-Khoi; Erreur de modèle en risque de crédit, 06/2013-08/2014, Department of Decision Sciences, option ingénierie financière, H. Ben-Ameur
- Vrabii, Alexandru; Analyse de la distribution des produits alimentaires à domicile: le cas de Montréal, 08/2012-10/2014, Department of Logistics and Operations Management, J.-F. Cordeau
- Yanni, Imad; L'influence des indicateurs d'efficacité et d'efficacité dans le partage de services entre municipalités ontariennes, 09/2012-06/2014, Department of Decision Sciences, option intelligence d'affaires, F. Bellavance
- Zhong, Qihua; Two-level lot sizing with an emission constraint, 06/2013-10/2014, Department of Logistics and Operations Management, R. Jans, O. Jabali

Polytechnique Montréal

- Assari, Chakir; Classification de mots-clés des campagnes publicitaires sur les moteurs de recherche et calcul de prévisions, 03/2014-08/2014, Department of Mathematics and Industrial Engineering, M. Gamache, L.-D. Adjengue
- Berthelemot, Antoine; Control over AFDX networks, 01/2013-07/2014, Department of Electrical Engineering, J. Le Ny
- Carpentier, Sabrina; Planification stratégique d'une mine souterraine en tenant compte de l'incertitude géologique, 09/2012-04/2015, Department of Mathematics and Industrial Engineering, M. Gamache, R. Dimitrakopoulos

D'Auteuil, Thierry; Analyse et recommandations de la chaîne logistique des fournitures médicales, 09/2011-12/2014, Department of Mathematics and Industrial Engineering, D. Riopel

Dailleux, Eddy; Performance analysis of 60 GHz MIMO communication system, 09/2012-04/2015, Department of Electrical Engineering, J.-F. Frigon, S.O. Tatu

Froger, Camille; Mise à jour des horaires de personnel travaillant sur des quarts, 09/2013-05/2015, Department of Mathematics and Industrial Engineering, F. Soumis, G. Desaulniers, B. Tachefine

Hakim, Mary Helmy Fawzy Hanna; Jitter evaluation in networks, 11/2013-09/2014, Department of Electrical Engineering, B. Sansò

Khaddadene, Amina; Algorithme de recherche directe pour l'optimisation robuste de fonctions bruitées, 05/2013-12/2014, Department of Mathematics and Industrial Engineering, C. Audet, S. Le Digabel

Jaoua, Mehdi; Algorithme de recherche Tabou pour la planification optimale d'une campagne marketing sur les moteurs de recherche, 01/2012-08/2014, Department of Mathematics and Industrial Engineering, M. Gamache, A. Hertz

Kermanshahi, Farnaz; Vision-guided path planning for a quadrotor, 01/2012-12/2014, Department of Electrical Engineering, J. Le Ny, D. Saussié

Leuliet, Alexandre; Nouvelles coupes pour le problème de tournées de véhicule avec demandes stochastiques, 01/2013-12/2014, Department of Mathematics and Industrial Engineering, G. Desaulniers, W. Rei, O. Jabali

Mohammady, Meisam; Differentially private event stream filtering with an application to traffic estimation, 05/2013-04/2015, Department of Electrical Engineering, J. Le Ny

Mouret, Geoffroy; No-mean clustering algorithm, 09/2012-12/2014, Department of Mathematics and Industrial Engineering, V. Partovi Nia, J.-J. Brault

Mousavilar, Fatemeh; Visual servoing for a quadrotor, 01/2012-12/2014, Department of Mathematics and Industrial Engineering, D. Saussié, J. Le Ny

Munezero, Emelyne; Une heuristique en deux phases pour la confection d'horaires de personnel avec transferts inter-départementaux d'employés, 05/2012-12/2014, Department of Mathematics and Industrial Engineering, G. Desaulniers, C. Contardo

Nguyen, Alessandro Q.T.; Titre à déterminer, 09/2014-03/2015, Department of Electrical Engineering, B. Sansò

Renamy, Farah; Processus logistique chez Pikiw, 09/2012-04/2015, Department of Mathematics and Industrial Engineering, D. Riopel

Ruel, Julie; Analyse des besoins en fournitures médicales, 05/2012-01/2015, Department of Mathematics and Industrial Engineering, D. Riopel

Sauvé, Frédéric; Optimisation de la gestion des fournitures médicales pour les soins à domicile du CSSS-IUGS, 05/2012-08/2014, Department of Mathematics and Industrial Engineering, D. Riopel

Willame, Alexandre; Séquencement de primitives pour la synthèse de mouvements naturels en robotique, 01/2013-12/2014, Department of Electrical Engineering, J. Le Ny, R. Gourdeau, D. Saussié

Université du Québec à Montréal

Chraïti, Mohamed; MIMO cooperative links in cognitive networks, 09/2012-06/2014, Department of Computer Sciences, W. Ajib, J.-F. Frigon

Niass, Fatima Amath; Évaluation d'options européennes avec le modèle de corrélation stochastique Wishart, 01/2015-05/2015, Department of Mathematics, F. Watier

Sall, Seydo; Trajectoires de qualité de vie des patients atteints du cancer tête et cou, 01/2012-05/2015, Department of Mathematics, B. MacGibbon, J. Atherton

Université McGill

Anbalagan, Yogesh; Approximate well supported Nash equilibria in win-lose bimatrix games, 09/2012-07/2014, Department of Mathematics and Statistics, A. Vetta

Côté, Marie-Pier; Copula-based risk aggregation modelling, 09/2012-06/2014, Department of Mathematics and Statistics, C. Genest

De Freitas Silva, Mario; High-order simulations for categorical variables, 06/2012-08/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Del Castillo, Fernanda; Joint effect of commodity price and geological uncertainty over the life of mine and ultimate pit limit, 09/2012-08/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Grebennikov, Ievgenii; Moment-based estimation of dependence parameters in copula models for discrete data, 09/2013-08/2014, Department of Mathematics and Statistics, C. Genest

Hu, Huining; Randomized experimental design for casual graph discovery, 09/2011-01/2015, School of Computer Science, A. Vetta

Joyanes, Antonio; Vertical integration in the chemical industry: Growing alone or with others, 09/2013-08/2014, Desautels Faculty of Management, T. Boyaci

Mannan, Mehnaz; Finite-state approximation for a class of POMDPs and comparison of reinforcement learning algorithms for managing energy storage in renewable generation, 01/2013-01/2015, Department of Electrical and Computer Engineering, A. Mahajan

Nogueira Teixeira, Murilo; Application of multiple-point simulation of mineral deposits based on discrete wavelet transform, 06/2012-09/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Prokopiou, Prokopis; Dynamic programming, machine learning and mean field control, 09/2012-08/2014, Department of Electrical and Computer Engineering, P.E. Caines, A. Mahajan

Saadah, Omar; Decentralized automatic economic dispatch in grid-connected and autonomous microgrids, 01/2012-10/2014, Department of Electrical and Computer Engineering, F. Bouffard, G. Joós

Sell, Maiko; Application of high order simulation with continuous TIs, 01/2011-08/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Senécal, Renaud; Production scheduling with multiple processing streams flow, 12/2013-05/2015, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Spleit, Michael; Stochastic long-term Production scheduling of the LabMag iron ore deposit, Labrador, Canada, 09/2012-08/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Villalba Matamoros, Martha E.; Integrating short and long term scheduling in iron ore deposits, 09/2011-08/2014, Department of Mining and Materials Engineering, R. Dimitrakopoulos

Autres Universités

Aissaoui, Sidi Allal; Inference on the dependence parameters of bivariate Skellam distributions of the first and second kind, 09/2013-12/2014, Université du Québec à Trois-Rivières, Canada, M. Mesfioui, C. Genest

Alghamdi, Amal; Managing clinical handover processes for cardiology patients using business process management, 01/2012-12/2014, Université d'Ottawa, Canada, S. Ben Amor

Amrhein, Lisa; German weather data modeling using multivariate extreme-value theory, 01/2014-12/2014, Technische Universität München, Germany, M. Scherer, C. Genest

Boujneh, Ayoub; Méthodes d'évaluation des options américaines, 02/2014-06/2014, École Polytechnique de Tunisie, Tunisia, M. Breton

Bouzid, Mohamed Amine; Changements de régime non observables: application à l'évaluation de fonds distincts, 02/2014-06/2014, École Polytechnique de Tunisie, Tunisia, M. Breton

Cho, Byung Yun, Gestion et optimisation de tournées de véhicules avec enjeux médicaux, 09/2012-05/2015, École Polytechnique Fédérale de Lausanne, Switzerland, N. Zufferey

Devito, Alessio, Blow and injection molding technologies in the world of Procter & Gamble purchasing organization, 09/2013-05/2015, Université de Genève, Switzerland, N. Zufferey

Hailer, Erik, Control-theoretic security mechanisms against GPS spoofing attacks, 01/2011-06/2014, University of Stuttgart, Germany, J. Le Ny

Magnet, Laurent, Planification opérationnelle et en temps réel des interventions des techniciens ERDF, 09/2013-05/2015, École Polytechnique Fédérale de Lausanne, Switzerland, N. Zufferey

Wattez, Adrien, Simulation de fluides, approche lagrangienne, 01/2012-11/2014, Université de Sherbrooke, Canada, R. Egli, J.-P. Dussault, F. Colin

Fast-tracking to a doctorate

Amaioua, Nadir; Improvements of the use of quadratic models in the NOMAD software package, M.Sc., Polytechnique Montréal – Department of Mathematics and Industrial Engineering, 01/2013-09/2014, S. Le Digabel

Bingane, Christian, Semidefinite programming approach for the optimal power flow problem, M.Sc., Polytechnique Montréal – Department of Mathematics and Industrial Engineering, 01/2014, 12/2014, M.F. Anjos, S. Le Digabel

Campeau, Louis-Pierre, Optimisation de la planification à court terme à la mine Westwood, M.Sc., Polytechnique Montréal – Department of Mathematics and Industrial Engineering, 09/2013, 01/2015, M. Gamache

Jacquet, Stéphane, Techniques de classification pour contraintes binaires en optimisation de boîtes noires, M.Sc., Polytechnique Montréal – Department of Mathematics and Industrial Engineering, 09/2014, 04/2015, C. Audet, G. Caporossi

6 – STUDENTS CURRENTLY UNDER SUPERVISION

GERAD members are currently supervising 177 Ph.D. students and 174 M.Sc. students.

HEC Montréal (Total: 72 M.Sc. & 33 Ph.D.)

Department of Decision Sciences

Financial Engineering specialization

Abdul-Baki, Youssef; Reducing risks without losing accuracy in portfolio selection problems, M.Sc., 10/2014, E. Delage

Aouad, Tarik; Titre à déterminer, M.Sc., 09/2013, G. Gauthier

Bazier-Matte, Thierry; Big data portfolio selection problem, M.Sc., 01/2015, E. Delage

Bizier, Anne-Marie; Model based Monte Carlo pricing of energy and temperature Quanto options, M.Sc., 09/2012, D.J. Dupuis

Boujneh, Ayoub; Méthodes numériques, M.Sc., 01/2015, M. Breton

Caccia, Massimo; Réplication optimale pour des options basées sur des modèles autorégressifs avec changements de régime, M.Sc., 09/2014, B. Rémillard

Charifi, Oussama; Projet dirigé en entreprise (Aon Hewitt). Simulateur de scénarios économiques, M.Sc., 09/2013, G. Gauthier

Chbani, Jean-Sébastien; Estimation of the GARCH-Lévy model with an application to commodities derivatives, M.Sc., 09/2013, G. Gauthier, M. Boudreault

Child-Cortes, Natalia; Modélisation de la dette corporative, M.Sc., 09/2014, Breton, M.

Day Michaud, Jean-Philippe; Titre à déterminer, Ph.D., 01/2014, G. Gauthier

Dyotte-Cournoyer, Guillaume; Projet dirigé en entreprise chez Rio Tinto Alcan, M.Sc., 09/2013, G. Gauthier

Fortin, Jean-François; Gestion robuste d'un portefeuille avec produits dérivés, M.Sc., 09/2011, E. Delage

Garant, Yves; Couverture de produits dérivés sur matières premières, M.Sc., 09/2012, B. Rémillard

Lemieux-Ouellette, Simon; Analyse de la performance des fonds négociés en bourse, M.Sc., 09/2014, B. Rémillard

Léveillé, Nicolas; Titre à déterminer, M.Sc., 05/2015, M. Denault

Olivier-Meunier, Jean-Philippe; Titre à déterminer, M.Sc., 09/2013, M. Denault

Painchaud, Guillaume; Un modèle hybride en prévision de faillite corporative, M.Sc., 05/2014, H. Ben-Ameur

Viau, Edith; Couverture dynamique, M.Sc., 09/2014, M. Breton

Yu, Qing; Évaluation d'options américaines pour des processus de Lévy, M.Sc., 09/2014, B. Rémillard

Zarmair, Kyle; Projet dirigé en entreprise à la Fédération des caisses Desjardins, M.Sc., 09/2013, G. Gauthier

Business Intelligence specialization

Azmi, Youssouf; Caractéristiques des collisions des conducteurs âgés, M.Sc., 09/2011, F. Bellavance

Bastarache-Roberge, Marie-Christine; FLOW forecasting during multi player video games using physiological data, M.Sc., 07/2014, M. Fredette

Benoit, Ghislain; Algorithmes de détection de communautés dans un réseau, M.Sc., 05/2014, G. Caporossi, S. Perron

Boivin, Virginie; Étude des plans financiers personnalisés dans une institution financière, M.Sc., 05/2015, D. Larocque, J.-F. Plante

Boubezari, Sarah; Développement de stratégie de A/B Testing pour les applications mobiles, M.Sc., 01/2014, M. Fredette

Daneau, Olivier; Intégration de l'outil statistique R à la solution d'affaire de l'équipe de modélisation et développement analytique à la Caisse de dépôt et placement du Québec, M.Sc., 04/2015, J.-F. Plante

Débordès, Jean-Baptiste; Combining ROC curve with adaptively weighted estimates of the marginals, M.Sc., 01/2014, J.-F. Plante

Devienne, Benjamin; Optimisation des stratégies en jeux vidéos en ligne, M.Sc., 08/2013, G. Caporossi

Doiron, Frédéric; Détection de communautés dans un graphe : Étude du critère de la densité de modularité, M.Sc., 05/2013, S. Perron, P. Hansen

Gélinas, Sophie; Segmentation de la clientèle et des donateurs du musée des beaux-arts, M.Sc., 09/2013, F. Bellavance

Grigny, Océane; Segmentation et développement d'un modèle prédictif dans le commerce de détail en fonction de la saisonnalité, M.Sc., 05/2015, D. Larocque

Houenoussi, Jade; Optimisation des tableaux de bord chez La Presse, M.Sc., 05/2015, D. Larocque

Jabir, Mohamed; Imputation des valeurs manquantes dans la base de données nationale des collisions, M.Sc., 01/2009, F. Bellavance

Larocque, Maxime; On the statistical properties of criteria for variable selection in genetic algorithms, M.Sc., 01/2014, J.-F. Plante

Le, Nguyet Minh; Segmentation de la clientèle d'un détaillant majeur de produits optiques, M.Sc., 09/2012, M. Fredette

Mack, Claudia; Modélisation du churn dans les entreprises de télécommunications, M.Sc., 09/2013, M. Fredette

Mallette, Jean-Philippe; Insight from the top 2 000 mobile games found in the Apple store, M.Sc., 05/2015, D. Larocque

Mathieu, Louis-Philippe; Analyse de l'influence du canal web sur les ventes du canal traditionnel, M.Sc., 05/2015, D. Larocque

McDonald, William; Prédiction de l'attrition des clients d'une agence de voyage pour des voyages de groupes d'écoliers, M.Sc., 09/2013, F. Bellavance

Ouellet, Nicholas; Segmentation des donateurs à HEC Montréal, M.Sc., 05/2015, D. Larocque

Sid'Ahmed, Hakim; Analyse et prédiction de la rétention de la clientèle dans le domaine des jeux en ligne, M.Sc., 01/2010, M. Fredette

Slama, Mohamed-Fadhel; Prédiction mensuelles et annuelles du nombre de réparations de moteurs d'avion, M.Sc., 09/2013, F. Bellavance

Radi, Youssef; Analyse et segmentation des abonnés de la revue XX (confidentiel), M.Sc., 05/2015, D. Dantas, D. Larocque

Terrab, Badr; Détermination de l'optimal multi-channel modelling for electronic conversion, M.Sc., 04/2015, M. Fredette

Tiomo Demanou, Dieunedort; Téléphone mobile au volant et risque d'accident : devis cas chassé-croisé et correction du biais dû à la déclaration inexacte de l'heure de l'accident, M.Sc., 09/2011, F. Bellavance

Vallée, Jonathan; Établissement de modèles prédictifs pour le comportement d'internautes à l'aide de données oculométrique, M.Sc., 09/2013, M. Fredette

Zerguini, Ghislène; Mise en place d'un système de maintenance prédictive dans le cas d'un système d'aération institutionnel, M.Sc., 01/2015, J.-F. Plante, D. Larocque

Zoure, Inès; Social network mining, M.Sc., 05/2015, D. Larocque

Global Supply Chain Management specialization

Dehghani, Fatemeh; Dynamic vehicle routing with consumption patterns, M.Sc., 09/2013, G. Laporte, O. Jabali

Sinclair, Karine; La récupération des opérations dans le transport aérien, Ph.D., 09/2007, G. Laporte, J.-F. Cordeau

Vahabpour, Mona; Exploring avenues for potential improvement in medical supply distribution, M.Sc., 06/2013, G. Caporossi

Business Analytics specialization

Baudouin, Antoine; Développement et implantation d'un algorithme de recherche à voisinage variable pour le problème de localisation de franchises, M.Sc., 04/2015, G. Caporossi, S. Perron

Blanquart, Adrien; Conception d'une base de données et d'indicateurs de gestion et création d'un tableau de bord, M.Sc., 09/2013, F. Bellavance

Correc, Anaïs; Comparaison d'algorithmes de détection de communautés dynamiques dans les réseaux évolutifs, M.Sc., 08/2013, S. Perron, G. Caporossi

Gagnon, Jeanne; Réoptimisation sous contraintes d'une trajectoire sur une grille 3D par algorithme de plus court chemin, M.Sc., 08/2013, S. Perron, S. Dufour

Gagnon, Philippe; Algorithmes parallèles et applications en analyse de réseaux complexes, M.Sc., 03/2015, G. Caporossi, S. Perron

Jeanbart, Karl; Étude de l'impact de différentes transformations majeures des modes de consommation d'énergie sur le secteur énergétique québécois à l'aide du modèle NATEM, M.Sc., 02/2015, O. Bahn, P.-O. Pineau

Osseyi, Edem; Analyse de la fluctuation du prix de l'essence ordinaire au Québec, M.Sc., 01/2014, J.-F. Plante, P.-O. Pineau

Pelletier, Samuel; Green vehicle routing, M.Sc., 01/2015, G. Laporte, Jabali, O

Rivest, Robin; Robustesse de la mesure et de l'agrégation des préférences en aide à la décision multi-critères avec la méthode AHP, M.Sc., 06/2013, E. Delage

Zhuang, Yiming; The measurement of cost effects in component commonality, M.Sc., 08/2014, R. Jans

Administration

Akari, Mohamed Ali; Finance mathématique, Ph.D., 01/2015, M. Breton

Alcocer-Morales, Yuri-Ernesto; The canadian oil sector under TIMES-Canada. Extraction, transportation and refining, Ph.D., 01/2007, O. Bahn, J.-P. Waaub

Ardestani Jaafari, Amir; Price of robustness in inventory and location problems, Ph.D., 01/2012, M. Breton, E. Delage

Baccouche, Marouen; Titre à déterminer, Ph.D., 05/2014, C. Labbé, J.-F. Renaud

Bégin, Jean-François; Titre à déterminer, Ph.D., 09/2012, G. Gauthier

Ben-Abdellatif, Malek; Un programme dynamique pour l'évaluation d'obligations corporatives dans un modèle structurel multidimensionnel, Ph.D., 03/2010, B. Rémillard, H. Ben-Ameur

Chérif, Rim; Un programme dynamique pour l'évaluation d'obligations corporatives dans un modèle structurel avec sauts, Ph.D., 05/2010, H. Ben-Ameur, B. Rémillard

Dahmouni, Ilyass; Dynamic games in fisheries, Ph.D., 01/2012, G. Zaccour

Debia, Sébastien; Strategic Interactions in Power Markets, Ph.D., 01/2012, G. Zaccour, P.-O. Pineau

Garrab, Samar; Stabilité des accords environnementaux, Ph.D., 09/2009, M. Breton

Gauthier, Jean-Bertrand; Primal algorithms for degenerate linear and network flow problems, Ph.D., 01/2011, J. Desrosiers

Guesmi, Sahar; Assurance et gestion des risques, Ph.D., 01/2014, H. Ben-Ameur, M. Breton

Janssens, Gert Investment dynamics, Ph.D., 09/2010, G. Zaccour

Joly, Louis-Philippe; Caractérisation de la solution du problème d'optimisation d'utilité avec contraintes convexes, Ph.D., 09/2007, C. Labbé, B. Rémillard

Kanani Kuchefehani, Elnaz; Essays in dynamic games played over event trees, Ph.D., 09/2011, G. Zaccour

Khribi, Lotfi; Efficacité des lois a priori maximisant l'entropie sur la prévision d'événements récurrents, Ph.D., 01/2008, M. Fredette, B. MacGibbon

Kpodjedo, Florent; Risque de crédit dans le domaine de l'assurance, Ph.D., 01/2008, M. Breton, B. Rémillard

Lamarre, Hugo; Using extreme value analysis to improve dynamic hedging and the pricing of options, Ph.D., 01/2013, D.J. Dupuis, B. Rémillard

Marzouk, Ouassama; Risque de contrepartie et gestion des garanties, Ph.D., 09/2013, M. Breton

Mathlouthi, Walid; Développement d'arbres de régression pour processus de Poisson, Ph.D., 09/2008, D. Larocque, M. Fredette

Mirzapour, Hossein; Comportement stratégique dans le secteur de l'énergie, Ph.D., 09/2010, M. Breton

Moradian, Hoora; Les arbres de régression et de classification pour l'analyse de survie, Ph.D., 09/2011, D. Larocque, F. Bellavance

Ndoye, Mbaye; Tarification de produits dérivés financiers, Ph.D., 09/2010, M. Breton

Oubraham, Aichouche; Jeux dynamiques en environnement et gestion des ressources naturelles, Ph.D., 08/2014, G. Zaccour

Pourkalbassi, Farhad; Titre à déterminer, Ph.D., 09/2013, G. Gauthier

Roy, Marie-Hélène; High-dimensional variable selection and mixture models, Ph.D., 01/2012, D.J. Dupuis, D. Larocque

Siliadin, Axel Yaovi Gassesse; Méthodes numériques d'évaluation de produits multidimensionnels, Ph.D., 09/2012, M. Breton

Wu, Si-Yang; Titre à déterminer, Ph.D., 05/2010, M. Denault

Department of Logistics and Operations Management

Beauge-Malenfant, Anne-Sophie; Titre à déterminer, M.Sc., 05/2015, R. Jans

Birem, Sami; Évaluation des coûts liés à la reconfiguration d'un centre de distribution afin de l'adapter à la saisonnalité des produits, M.Sc., 05/2015, J.-F. Cordeau

Boulos, Lorraine; Titre à déterminer, M.Sc., 05/2015, R. Jans, H. Giroux

Chitsaz, Masoud; Assembly inventory routing problems, Ph.D., 09/2014, J.-F. Cordeau, R. Jans

Laurainne, Pauline; Optimisation de la planification des séances de chimiothérapie ambulatoire au CHU de Strasbourg, M.Sc., 01/2015, J.-F. Cordeau, M.-H. Jobin

Liu, Jingshu; The one-warehouse multi-retailer problem with a rolling horizon emission constraint, M.Sc., 04/2015, R. Jans

Martinez, Julian; Distribution Network Optimization, M.Sc., 03/2014, J.-F. Cordeau, R. Jans

Nguyen, Ngoc-Thuy-Chau; Interaction among costs in different lot sizing problems with substitution, M.Sc., 08/2014, R. Jans

Nie, Mengyu; How trade policy shocks affect global value chains, M.Sc., 02/2014, R. Jans, A. Van Assche

Ouellet, Alexandre; Titre à déterminer, M.Sc., 05/2015, R. Jans

Thibodeau, David; Conception de réseau de distribution multi-modal, M.Sc., 05/2015, J.-F. Cordeau

Valcarcel, Yasser; Problèmes de production et tournées de véhicules avec plusieurs produits, Ph.D., 09/2014, J.-F. Cordeau, R. Jans

Wang, Hui; Environmental aspects in supply chain design, M.Sc., 03/2014, J.-F. Cordeau, O. Jabali

Zengue, Maximin; Titre à déterminer, M.Sc., 05/2015, R. Jans

Department of Marketing

Lamarre, Hugo; Développement d'un modèle explicatif de l'écart de prix entre les versions tangibles et digitales d'un produit : Cas du marché des livres, M.Sc., 09/2013, S. Taboubi, D. Dantas

Shaker, Hameed; Investigating reference price formation during online shopping experience, Ph.D., 01/2013, S. Sénécal, S. Taboubi

Polytechnique Montréal (Total: 42 M.Sc. & 63 Ph.D.)

Department of Chemical Engineering

Recio Garrido, Didac; Titre à déterminer, Ph.D., 05/2012, M. Perrier, B. Tartakovsky

Department of Mathematics and Industrial Engineering

Abdou Amadou, Issoufou; Optimisation et ordonnancement de la production à moyen terme dans les mines à ciel ouvert, Ph.D., 09/2014, M. Gamache

Adams, Elspeth; A novel approach to tightening semidefinite relaxations for certain combinatorial problems, Ph.D., 09/2010, M.F. Anjos

Aherdane, Oussam; Titre à déterminer, M.Sc., 01/2014, D. Riopel

Ahmed Bouh, Moustapha; Sélection des équipements statiques et des équipements dynamiques de l'entrepôt, Ph.D., 09/2014, D. Riopel

Alijani, Shahrzad; Stratégie de gestion des retours des conteneurs de l'internet physique, M.Sc., 09/2013, D. Riopel

Altinakar, Sivan; Titre à déterminer, Ph.D., 09/2008, A. Hertz, G. Caporossi

Amaïoua, Nadir; Improvements of the use of quadratic models in the NOMAD software package, Ph.D., 09/2014, S. Le Digabel, C. Audet

Ardila Agredo, Andrés Yahir; Titre à déterminer, M.Sc., 09/2013, D. Riopel

Arreckx, Sylvain; Titre à déterminer, Ph.D., 09/2009, D. Orban

Attia, Dalia; Titre à déterminer, Ph.D., 04/2015, F. Soumis

Azeuli Nkamegni, Kouklla; Attribution optimale de poids sur les divers événements d'une campagne marketing sur Internet, Ph.D., 09/2012, M. Gamache, A. Hertz

Baatour, Sana; Titre à déterminer, M.Sc., 01/2014, D. Riopel

Barbier, Thibault; Approche par simulation pour la gestion des revenus dans le domaine aérien, Ph.D., 06/2014, M.F. Anjos, G. Savard

Barris, Nicolas; Optimal control strategies for electricity production in isolated sites, M.Sc., 01/2014, M.F. Anjos

Barros, Breno; Logistique verte, Ph.D., 09/2013, P. Baptiste, M. Gendreau

Bécotte-Boutin, Hélène-Sarah; Visualisation et analyse des données d'écriture, Ph.D., 09/2012, A. Hertz, G. Caporossi

Ben Nasr, Moatez; Titre à déterminer, M.Sc., 09/2012, F. Soumis

Bingane, Christian; Semidefinite programming approach for the optimal power flow problem, Ph.D., 01/2015, S. Le Digabel, M.F. Anjos

Bouarab, Hocine; Quelques aspects de la dégénérescence dans un contexte de génération de colonnes, Ph.D., 05/2011, G. Desaulniers, J. Desrosiers

Brika, Zeyneb; Méthode optimale et stratégies de résolution pour le problème de planification stratégique (mine New Millennium), Ph.D., 09/2013, M. Gamache

Campeau, Louis-Pierre; Optimisation de la planification à court et moyen terme dans une mine souterraine, Ph.D., 01/2015, M. Gamache

Cherkaoui, Kaouthar; Planification hiérarchique de Étudiante projets d'ingénierie, Ph.D., 09/2011, P. Baptiste, R. Pellerin

Cherkesly, Marilène; Le problème de tournées de véhicules avec cueillettes, livraisons, fenêtres de temps et contraintes de manutention, Ph.D., 05/2011, G. Desaulniers, G. Laporte

Chitita, Fadwa; Titre à déterminer, M.Sc., 09/2014, P. Baptiste, R. Pellerin

David, Alexandre; Optimisation de l'affectation des produits aux emplacements dans un entrepôt, M.Sc., 09/2014, M. Gamache, D. Riopel

Delorme, Matthieu; Titre à déterminer, M.Sc., 08/2011, F. Soumis

Demeester, Kenjy; Improvements to a sequential linear programming method for hydropower management, M.Sc., 05/2015, D. Orban, P. Côté

Duret, Jean-Sébastien; Titre à déterminer, M.Sc., 09/2013, D. Riopel

Er-Rbib, Safae; Construction d'horaires de chauffeurs d'autobus, Ph.D., 05/2014, G. Desaulniers, I. El Hallaoui, M. Saddoune

Farhadi, Farnoush; Titre à déterminer, M.Sc., 02/2015, V. Partovi Nia

Farnia, Fatemeh; Titre à déterminer, Ph.D., 09/2014, V. Partovi Nia

Foutlane, Omar; Méthodes de décomposition locale pour le problème de partitionnement, Ph.D., 01/2013, I. El Hallaoui, P. Hansen

- Gauvin, Charles; Méthodes d'optimisation robuste pour le problème de gestion de réservoirs, Ph.D., 01/2013, M. Gendreau, E. Delage,
- Ghaemi, Mohammad Sajjad; Titre à déterminer, Ph.D., 01/2014, V. Partovi Nia, B. Agard
- Gillett, Patricia; Semidefinite relaxations for complementarity problems, Ph.D., 09/2010, M.F. Anjos
- Gómez Herrera; Juan Alejandro, Optimization models for demand-response, Ph.D., 05/2012, M.F. Anjos
- Himmich, Ilyas; Problème de plus court chemin avec contraintes de ressources, Ph.D., 01/2013, I. El Hallaoui
- Ibanez Salinas, Miguel; Titre à déterminer, Ph.D., 09/2013, V. Partovi Nia
- Jacquet, Stéphane; Techniques de classification pour contraintes binaires en optimisation de boîtes-noires, Ph.D., 05/2015, C. Audet, G. Caporossi
- Kasirzadeh, Atoosa; Optimisation intégrée des rotations et des blocs mensuels personnalisés des équipages en transport aérien, Ph.D., 09/2009, F. Soumis
- Laage, Greta; Nouvelle approche de bid-price pour l'optimisation des inventaires dans un contexte de market behaviour, M.Sc., 01/2015, G. Savard
- Lakhmiri, Dounia; Implementation of methods for derivative-free optimization, M.Sc., 09/2014, D. Orban
- Lehoullier, Thibault; Algorithmes de génération de colonnes pour des problèmes de tournées de véhicules complexes, Ph.D., 09/2012, F. Soumis, G. Desaulniers
- Lemyre-Garneau, Mathieu; Conception d'une boîte noire en ingénierie, M.Sc., 09/2013, C. Audet, S. Le Digabel, C. Tribes
- Leite-Corthésy, Raphaël; Simulation et programmation mathématique pour la planification à très court terme dans une mine souterraine, M.Sc., 05/2015, M. Gamache
- Lévesque-Thibodeau, Maxime; Pratiques de l'organisation des retours des conteneurs maritimes, M.Sc., 09/2013, D. Riopel
- Lioret, Alain; Planification de la production dans les mines incluant la gestion des piles de minera, M.Sc., 01/2015, M. Gamache
- Luguern, Ariel; Modélisation du partage d'opérateurs en ordonnancement, M.Sc., 09/2013, P. Baptiste
- Messaoudi, Mayssoun; Problèmes en transport: optimisation, Ph.D., 01/2015, L.-M. Rousseau, I. El Hallaoui
- Michon-Lacaze, Hélène; Élaboration de quarts de travail robustes aux perturbations de courte durée, M.Sc., 01/2014, G. Desaulniers
- Mirshahi, Mina; Bayesian clustering of shapes, Ph.D., 09/2013, V. Partovi Nia, M. Asgharian
- Montagné, Romain; Théorie des graphes et télécommunications, Ph.D., 09/2012, A. Hertz, F. Gagnon
- Moutassim, Abderrazak; Optimisation de trajectoires aériennes, M.Sc., 08/2013, S. Dufour, S. Perron
- Ochi, Khaoula; Logistique verte: une approche globale, M.Sc., 06/2011, P. Baptiste
- Palobdé-Zagre, Gilles Éric; Optimisation d'une campagne de forage d'exploration géologique, M.Sc., 01/2015, M. Gamache
- Peyrega, Mathilde; Contributions to derivative-free optimization, Ph.D., 01/2012, C. Audet, S. Le Digabel
- Quesnel, Frédéric; Construction de rotations d'équipages aériens avec contraintes sur les horaires personnalisés mensuels, Ph.D., 09/2013, F. Soumis, G. Desaulniers
- Rahnama, Hassan; New models for the robust portfolio management, Ph.D., 01/2014, G. Savard, P. Marcotte
- Rimélé, Adrien; Optimisation à long terme dans une mine à ciel ouvert tout en intégrant les haldes de stérile à l'intérieur de la fosse, M.Sc., 09/2014, M. Gamache, R. Dimitrakopoulos
- Rioux-Fiset; Laurence, Horaires mensuels en transport aérien avec équité, M.Sc., 08/2014, F. Soumis, G. Desaulniers
- Robatian, Damoon; Titre à déterminer, Ph.D., 01/2015, V. Partovi Nia
- Rodrigues De Sousa, Vilmar Jefte; Valid inequalities for the semidefinite programming relaxation of the k-partition problem, Ph.D., 01/2015, M.F. Anjos, S. Le Digabel
- Rodríguez Sarasty, Jesús Andrés; Improved models for the unit commitment problem, Ph.D., 08/2013, M.F. Anjos
- Rosat, Samuel; Coupes locales pour le problème de partitionnement, Ph.D., 01/2013, F. Soumis, I. El Hallaoui
- Sabaghi, Mahdi; Design for disassembly using modularity technique aiming to support product end-of-life, Ph.D., 01/2013, P. Baptiste
- Séguin, Sara; Optimisation de centrales hydroélectriques chez Rio Tinto sur un horizon court terme, Ph.D., 01/2014, C. Audet, P. Côté
- Sellal, Cherif; Développement du système AutoGraphiX de recherche automatisée de conjectures dans les graphes, Ph.D., 01/2015, A. Hertz, P. Hansen
- Shams, Sheida; Titre à déterminer, Ph.D., 01/2015, V. Partovi Nia
- Souissi, Sarra; Construction d'horaires d'employés multi-départements, M.Sc., 08/2014, F. Soumis, G. Desaulniers
- Spleit, Michael; Planification à long terme dans une mine à ciel ouvert en tenant compte de la réhabilitation du site à la fin de l'exploitation, Ph.D., 01/2015, M. Gamache, R. Dimitrakopoulos
- Tahir, Adil; Algorithme du simplexe en nombres entiers avec décomposition combiné à la génération de colonnes, Ph.D., 09/2014, I. El Hallaoui, G. Desaulniers
- Tammam, Adham I.; Optimal management of thermal energy storage, Ph.D., 01/2012, M.F. Anjos
- Thibault, Mathieu; Titre à déterminer, M.Sc., 09/2013, D. Riopel
- Tilouche, Shaima; Application of massive data learning in industrial automation, Ph.D., 09/2013, V. Partovi Nia, S.J. Bassetto
- Torres, Fabian; Titre à déterminer, Ph.D., 09/2014, M.F. Anjos
- Tourenne, Luc; Modélisation technoeconomique du système énergétique des forces armées canadiennes, M.Sc., 09/2014, G. Savard
- Ulatowski, Michel; Titre à déterminer, M.Sc., 09/2013, D. Riopel
- Vahidpour, Mahroo; An R package for survival curve estimation, M.Sc., 09/2012, V. Partovi Nia
- Waguih, Dalia; Reformulation-linéarisation dans le simplexe en nombres entiers, Ph.D., 09/2014, F. Soumis
- Yao, Lingqing; Titre à déterminer, Ph.D., 03/2015, M. Gamache, R. Dimitrakopoulos
- Zaghrouti, Abdelouahab; Simplexe en nombres entiers pour les problèmes en nombres entiers, Ph.D., 09/2009, F. Soumis, I. El Hallaoui
- Zahedi, Hamidreza; Product Advanced End-Of-Life Treatment using a Modular Approach, Ph.D., 01/2013, P. Baptiste
- Zeighami, Vahid; Titre à déterminer, Ph.D., 09/2012, F. Soumis

Department of Electrical Engineering

Solis, Jérôme; Chauffe-eau électriques comme outil de stockage d'énergie : modélisation et estimation d'état, M.Sc., 06/2013, R.P. Malhamé

Abedinpour-Fallah, Mehdi; Analysis of a class of distributed linear estimation and control problems, Ph.D., 09/2011, R.P. Malhamé

Alam, Sahabul; Titre à déterminer, Ph.D., 05/2011, B. Sansò

André, Hubert; Privacy-preserving traffic estimators for floating car data, M.Sc., 01/2015, J. Le Ny

Beza Ndayi, Chantal; Validation du modèle de patient virtuel de l'Hôpital Ste-Justine, M.Sc., 09/2014, B. Sansò, A. Girard

Bolouki, Ehsan; Resource allocation in multiantenna relay networks, Ph.D., 09/2013, J.-F. Frigon

Bourdel, Benoît; Simulation de la gestion intégrée renouvelables/stockage d'énergie distribué par la technique des champs moyens, M.Sc., 09/2014, R.P. Malhamé, F. Sirois

Cascone, Carmelo; Titre à déterminer, Ph.D., 09/2013, B. Sansò, A. Capone

Dbira, Hadhami; Analyse mathématique, méthode de calcul de la gigue et applications aux réseaux Internet, Ph.D., 01/2012, B. Sansò, A. Girard

Fan, Shu; Identification de modèles markoviens de demande d'eau chaude, M.Sc., 09/2013, R.P. Malhamé, V. Partovi Nia

Hentati, Amina; Resource allocation and routing in energy harvesting sensor networks, M.Sc., 09/2014, J.-F. Frigon

Li, Feng; Mean-field games for the control of smart grids, M.Sc., 08/2014, R.P. Malhamé, J. Le Ny

Losseau, Romain; Titre à déterminer, M.Sc., 10/2014, R.P. Malhamé, F. Sirois

Malandra, Filippo; Communication network analysis and design for smart grid applications, Ph.D., 01/2013, B. Sansò

Mashhadi, Tahereh; Wireless network virtualization, M.Sc., 01/2013, J.-F. Frigon

Michiels, Jacques; Robot exploration and planning with semantic perception, M.Sc., 01/2014, J. Le Ny, D. Saussié

Mignon, Antoine; Impact of IMA architectures on aerospace control systems, M.Sc., 01/2013, J. Le Ny

Numan, Ahmed; Antenna design for advanced millimeter wave MIMO radar systems, Ph.D., 09/2014, J.-F. Frigon

Rafrafi, Wassim; High-precision, cooperative UWBaided robot navigation, M.Sc., 09/2014, J. Le Ny

Salhab, Rabih; Mean-field approaches for the control of networked robotic swarms, Ph.D., 08/2013, R.P. Malhamé, J. Le Ny

Torabi, Seyed Mohammed Ali; Cooperative communications in ad-hoc networks, Ph.D., 09/2008, J.-F. Frigon

Farmer, Iain; Armed bandits, stochasticity and sampling, M.Sc., 09/2014, R. Dimitrakopoulos

Grogan, Sean; On metaheuristic for mine scheduling, M.Sc., 01/2014, R. Dimitrakopoulos

McNeil, James; Titre à déterminer, M.Sc., 09/2013, R. Dimitrakopoulos

Mu, Yanyan; Titre à déterminer, Ph.D., 02/2013, R. Dimitrakopoulos

Quigley, Matthew; Stochastic supply and optimization of rare earth element production, M.Sc., 09/2014, R. Dimitrakopoulos

Rashid, Ahmad; On training image reconstruction with high-order statistics, M.Sc., 12/2013, R. Dimitrakopoulos, I. Psaromiligkos

Vallejo, Maria Natalia; Global optimization at the La Colosa mine, Columbia, M.Sc., 09/2014, R. Dimitrakopoulos

Zhou, Xiaohang; Titre à déterminer, M.Sc., 09/2014, R. Dimitrakopoulos

Department of Electrical and Computer Engineering

Abiri-Jahromi, Amir; Techniques and methods to assess reserve provision in power systems through aggregated demand-side flexibility, Ph.D., 04/2011, F. Bouffard, G. Joós

Afshari, Mohammad; Titre à déterminer, Ph.D., 01/2015, A. Mahajan

Arabneydi, Jalal; Teams with mean-field sharing information structure, Ph.D., 09/2011, A. Mahajan

Chakravorty, Jhelum; Event based communication in smart grids, Ph.D., 01/2013, A. Mahajan

Cui, Can; Decentralized sequential hypothesis testing, M.Sc., 09/2013, A. Mahajan

Dagenais, André; Formulating the offshore optimal HVDC transmission planning problem, M.Sc., 09/2010, F. Bouffard

Destounis, Nicholas; Mean field game analysis of evolutionary systems, M.Sc., 09/2014, P.E. Caines

Dhaliwal, Navdeep; Automating remote community microgrid design, Ph.D., 01/2014, F. Bouffard

Dong, Chaungshen; Energy efficient cyber physical system design, Ph.D., 09/2013, A. Mahajan, H. Zheng

Firoozi, Dena; Mean field and state estimation theory for major-minor agent MFG systems, Ph.D., 09/2013, P.E. Caines

Gao, Shuang; Pinning control and coalition formation for MFG systems on large graphs, Ph.D., 09/2013, P.E. Caines

Kayyali, Dima; Demand-focused microgrid control, Ph.D., 09/2014, F. Bouffard

Layeghi, Hamed; Model predictive control of stochastic hybrid systems with applications to electric vehicles, Ph.D., 09/2013, P.E. Caines

Lei, Ming; Markovian processes and electric vehicle charging, M.Sc., 01/2015, A. Mahajan, F. Bouffard

Ma, Calvin; Accelerated lifetime aware early design space exploration using multiarmed bandits, M.Sc., 09/2014, A. Mahajan, B. Meyer

Nazir, Md Salman; Systematic integration of wind power variability in power system dispatch resource planning, M.Sc., 09/2013, F. Bouffard

Nosair, Hussam; Flexibility potential characterization and planning in power systems, Ph.D., 09/2011, F. Bouffard

Pakniyat, Ali; Optimal hybrid control systems with applications to electric vehicles, Ph.D., 09/2011, P.E. Caines

Université McGill (Total: 18 M.Sc. & 29 Ph.D.)

Department of Mining and Materials Engineering

Abolhassani, Amir; Titre à déterminer, Ph.D., 02/2013, R. Dimitrakopoulos

Del Castillo, Fernanda; Global optimization and option valuation, Ph.D., 09/2014, R. Dimitrakopoulos

Dirkx, Rein; Armed bandits, stochasticity and sampling, M.Sc., 09/2014, R. Dimitrakopoulos

Seal, Sayani; Mean field game systems theory for dynamical masses of agents and associated PDEs, Ph.D., 09/2013, P.E. Caines

Shi, Ruigao; Optimization of distribution substation energy storage, M.Sc., 01/2014, F. Bouffard

Department of Mechanical Engineering

Goncalves, Cassio; Modeling, design and optimization of product-service systems for the aerospace industry, Ph.D., 01/2014, M. Kokkolaras

Marwaha, Gautam; Modeling and Optimization of Systems of Systems, M.Sc., 09/2012, M. Kokkolaras

Pithipaul, Purnendu; Multidisciplinary design optimization of vascular stents, M.Sc., 09/2012, M. Kokkolaras, D. Pasini

Department of Mathematics and Statistics

Cormier, Éric; Functional data analytical methods for multivariate extreme-value copula modeling, Ph.D., 09/2011, C. Genest

Côté, Marie-Pier; Étude de la dépendance et de ses effets en actuariat, Ph.D., 09/2014, C. Genest

Khan, Muhammad; Titre à déterminer, M.Sc., 09/2013, B. Shepherd, A. Vetta

Murphy, Orla; Statistical methodology for modeling dependence in multivariate extremal data, Ph.D., 05/2013, C. Genest, J. Neslehova

Schulz, Juliana; Multivariate modeling of sums of dependent claims via GLM, Ph.D., 09/2013, C. Genest

Thain, Nithum; Titre à déterminer, Ph.D., 09/2008, A. Vetta

Department of Economics

Behzadnejad, Fatemeh; Economics of renewable resources, Ph.D., 09/2009, M. Breton, H. Bencheikroun

Desautels Faculty of Management

Alibeiki, Hedayat; Assortment decisions in supply chain management, Ph.D., 09/2012, S. Li, M. Gumus

Doan, Thang Long; Dynamic decisions in retailing, Ph.D., 09/2014, S. Li

Ergin, Elcin; Optimization models for online supply chains, Ph.D., 08/2014, M. Gumus

Kenney, Jud; Titre à déterminer, Ph.D., 01/2011, S. Ray

Tao, Zhexiong; Supplier relations considering technology improvement, Ph.D., 09/2012, S. Li, S. Ray

Zargoush, Manaf; The value of information in health care operations management, Ph.D., 09/2010, M. Gumus, V. Verter

Université du Québec à Montréal

(Total: 23 M.Sc. & 10 Ph.D.)

Department of Biological Sciences

Afshar, Mohammad; Règles d'apprentissage explorées par simulations multiagents, Ph.D., 09/2010, L.-A. Giraldeau

Bonin, Marie-Pierre; Apprentissage et différences individuelles chez la perruche ondulée, M.Sc., 09/2010, L.-A. Giraldeau

Dagues, Marie Barou; Différences individuelles d'apprentissage et de flexibilité dans le jeu producteur-chapardeur, M.Sc., 09/2014, L.-A. Giraldeau

Gonella, Baptiste; Effet de la fréquence-dépendance sur l'apprentissage individuel des membres d'un groupe, M.Sc., 09/2014, L.-A. Giraldeau

Department of geography

Antic, Sonja; Évaluation et cartographie du potentiel d'énergie renouvelable au Québec, M.Sc., 09/2012, J.-P. Waaub

Bouffard, Simon; Simuler sans dissimuler. Vers le développement de nouveaux outils d'analyse du milieu visuel appliqués au processus d'évaluation environnementale des grands projets, M.Sc., 01/2004, J.-P. Waaub

de Robert, Arthur; Titre à déterminer, M.Sc., 01/2015, J.-P. Waaub

Environmental Science specialization

Batellier, Pierre; Le rôle de l'État au regard de l'acceptabilité sociale de grands projets de développement économique à fort impact socio-environnemental. Le cas du projet de développement de la filière du gaz de schiste au Québec, Ph.D., 09/2012, J.-P. Waaub, L. Sauvé

Burbano, John; Évaluation des impacts environnementaux de la production de poules pondeuses, M.Sc., 09/2012, J.-P. Waaub, D. Proulx

Diallo, Mariama; Contribution méthodologique à l'évaluation environnementale stratégique de l'aménagement des ports minéraliers en zone côtière tropicale : cas de la Guinée, Ph.D., 09/2012, J.-P. Waaub, K. Samoura

Djibo, Maman; Importance du suivi environnemental dans la conservation de la biodiversité lors de la mise en œuvre de projets de développement au Niger : cas des aménagements forestiers, Ph.D., 01/2007, J.-P. Waaub

Guay, Jean-François; Essai sur un cadre conceptuel et méthodologique de modélisation intégrée pour la planification du territoire et de l'environnement, Ph.D., 09/2005, J.-P. Waaub

Lahyani, Fatima; Contribution méthodologique aux études d'impact des projets de mines d'uranium au Québec, M.Sc., 09/2012, J.-P. Waaub

Malo-Comtois, David; Titre à déterminer, M.Sc., 09/2012, J.-P. Waaub

Morin, Mathieu; Titre à déterminer, M.Sc., 09/2013, J.-P. Waaub

N'Diaye, Malick; Suivi des impacts environnementaux du bassin fluvial du Sénégal à la suite des grands aménagements de l'OMVS, Ph.D., 09/2002, J.-P. Waaub, M. Khouma

Rondeau, Carole; Étude d'un projet de revitalisation urbaine intégrée (RUI) : le cas d'Airlie-Bayne à Lasalle, M.Sc., 09/2012, J.-P. Waaub

Sentenac, Eulalie; Potentiels d'adaptation aux changements climatiques de la Communauté métropolitaine de Montréal : scénarios à l'horizon 2050, M.Sc., 09/2012, J.-P. Waaub

Department of Mathematics

Ait Kaci Azzou, Sadoune; Modélisation de l'évolution des virus recombinants par le processus de coalescence, Ph.D., 09/2010, F. Larribe

Allab, Imène; Temps de passage des processus de diffusion, M.Sc., 01/2014, F. Watier

Barry, Amadou Diogo; Causalité et économétrie: Application à la modélisation de l'obésité, Ph.D., 07/2012, A. Charpentier

Beaulac, Cédric; Intelligence artificielle avec apprentissage automatique pour l'estimation de la position d'un agent mobile en utilisant les modèles de markov cachés, M.Sc., 09/2012, F. Larribe

Castiblanco, Fabio O.G.; Estimation of reduced-form credit risk models using an optimal weighting of information sources, M.Sc., 09/2013, M. Boudreault

El Kasmi, Yassin; Gestion de portefeuilles stochastiques sous contraintes, Ph.D., 09/2013, F. Watier

Ferradji, Abdelhakim; L'utilisation du processus de coalescence et des modèles linéaires mixtes dans le cadre de la cartographie génétique des variantes rares, M.Sc., 01/2014, K. Oualkacha, F. Larribe

Flibotte, Simon; Premier temps de passage sous changement de régime, M.Sc., 09/2014, F. Watier

Forest-Désaulniers, Jean-François; Hidden Markov models in insurance and credit risk, M.Sc., 09/2013, M. Boudreault, J.-P. Boucher

Grégoire, Jonathan; Estimation of discrete- and continuous-time stochastic volatility models, M.Sc., 09/2013, M. Boudreault

Li, Wanling; Diagrammes de Voronoï aléatoires, M.Sc., 05/2015, F. Watier

Rostand Koetz, Carlos Felipe; Réchauffement climatique et assurance, M.Sc., 08/2013, A. Charpentier

Ortiz Ortega, Oscar Camilo; Clustering of low cytometry data, M.Sc., 09/2013, F. Larribe, C. Greenwood

Zare, Ebrahim; Aspects théoriques et algorithmiques des transversaux de circuits dans les graphes orientés, Ph.D., 09/2013, L. Laforest, O. Marcotte

Ziou, Myriam; Cartographie de caractères polygéniques par le processus de coalescence, M.Sc., 09/2014, F. Larribe

Université de Montréal (Total : 7 M.Sc. & 13 Ph.D.)

Department of Computer Science and Operations Research

Amghar, Khalid; Modèles multi-flots pour les problèmes de tournées de véhicules, M.Sc., 01/2014, B. Gendron, J.-F. Cordeau

Ben Abdallah, Amad; Titre à déterminer, Ph.D., 01/2015, P. L'Ecuyer

Bolanos, Ruben; Two-echelon location-routing problems with synchronization constraints, Ph.D., 09/2014, T.G. Crainic, C. Contardo

Chaouchi, Ahmed; Intégration de la réserve stockée énergétique des voitures électriques dans le réseau, Ph.D., 09/2012, P. Marcotte, G. Savard

El Filali, Souhaila; Conception de réseaux de métro, Ph.D., 01/2014, B. Gendron, G. Laporte

Enderer, Furkan; Vehicle routing problems with cross-docking, Ph.D., 09/2014, B. Gendron, C. Contardo

Hanini, Mohamed; Construction de réseaux digitaux adaptés aux applications, Ph.D., 01/2014, P. L'Ecuyer, M. Gendreau

Kemerchou, Nabil; Logiciel de génération de nombres aléatoires dans OpenCL, M.Sc., 09/2011, P. L'Ecuyer

Méchouat, Myriam; Modélisation stochastique du taux d'intérêt, M.Sc., 01/2015, P. L'Ecuyer

Ta, Thuy Anh; Optimisation stochastique dans les centres d'appels, Ph.D., 01/2014, P. L'Ecuyer, F. Bastin

Thiongane, Mamadou; Méthodes de prévision de la durée d'attente de chaque appel et impacts des annonces aux clients, dans un centre d'appels multicompétences, Ph.D., 09/2011, P. L'Ecuyer

Tremblay, Pierre-Alexandre; Calcul efficace de politiques pour un problème de réplication avec applications financières, Ph.D., 01/2006, P. L'Ecuyer

Trung, Kien Do; Distributed and parallel algorithms for protection in multi-domain optical networks, Ph.D., 09/2010, B. Jaumard, M. Toulouse

Department of Mathematics and Statistics

Damian, Oana; Titre à déterminer, M.Sc., 09/2009, P. Duchesne

Desaulniers, Benoit; Titre à déterminer, M.Sc., 09/2011, P. Duchesne

Dongmo Jiongo, Valéry; Titre à déterminer, Ph.D., 09/2008, P. Duchesne

Harlouchet, Iban; Titre à déterminer, M.Sc., 09/2012, P. Duchesne

Rosamont, Kevin; Approche bayésienne de la modélisation incrémentale, M.Sc., 09/2013, J.-F. Angers, F. Bellavance

Sango, Joël; Titre à déterminer, Ph.D., 01/2011, P. Duchesne

Tagne Tatsinkou, Joseph François; Titre à déterminer, Ph.D., 09/2010, P. Duchesne, P. Lafraye de Micheaux

Université Concordia (Total : 2 M.Sc. & 12 Ph.D.)

Department of Mechanical & Industrial Engineering

Ortiz Astorquiza, Camilo; Hub location problems, Ph.D., 09/2013, I. Contreras, G. Laporte

Zetina, Carlos; Network Design Problems, Ph.D., 09/2014, I. Contreras, J.-F. Cordeau

Department of Computer Science & Software Engineering

Bakshi, Mahesh; Scheduling issues in sSensor networks, Ph.D., 01/2013, B. Jaumard, L. Narayanan

Le, Thai Hoa; Freight train scheduling, Ph.D., 01/2013, B. Jaumard

Mbougni, Michel; Titre à déterminer, Ph.D., 01/2014, B. Jaumard

Muhammad, Ali; Titre à déterminer, Ph.D., 01/2014, B. Jaumard

Negahishirazi, Mahdi; Scheduling with QoS in multi-channel multi-radio wireless mesh networks, M.Sc., 05/2013, B. Jaumard

Nguyen, Minh Bui; Optimization of logical design with respect to multi failure protection issues in optical networks, Ph.D., 05/2010, B. Jaumard

Nweiser, Munir; Multi-agent systems in social and P2P networks, Ph.D., 09/2011, B. Jaumard

Pouya, Hamed; Titre à déterminer, Ph.D., 09/2013, B. Jaumard

Shahriar, Md. Istiaque; Resource sharing In P2P networks, Ph.D., 06/2009, B. Jaumard, D. Qiu

Song, Shibo; Titre à déterminer, M.Sc., 09/2013, B. Jaumard

Tian, Huaining; Efficient freight locomotive management, Ph.D., 06/2011, B. Jaumard, A. Akgunduz

Wang, Yan; Multi-criteria optimization problems in cloud computing, Ph.D., 06/2011, B. Jaumard

Other universities (Total: 10 M.Sc. & 27 Ph.D.)

Afsar, Sezin; Gestion de la charge par une approche à deux niveaux, Ph.D., INRIA, France, 09/2011, G. Savard

Al Zahrani, Ali; Interference control in large cellular networks via meanfield game theory, Ph.D., Carleton University, Canada, 01/2012, M. Huang

Aldave, Roberto; Systematic ensemble learning and extensions for regression, Ph.D., Université de Sherbrooke, Canada, 04/2004, J.-P. Dussault

Allaoui, Reda; Impact de la centralisation des marchés de transports sur les transporteurs, M.Sc., Université Laval, Canada, 09/2012, M. Rekik

Atanasov, Nikolay A.; Active perception strategies in robotics, Ph.D., University of Pennsylvania, USA 09/2010, G.J. Pappas, J. Le Ny

Azzi, Sabrina; Priorisation des gènes dans les maladies d'asthme: approche algorithmique, Ph.D., Université du Québec à Chicoutimi, Canada, 09/2013, D. Rebaine

Bachir Cherif, Kahina; Optimisation et approche métaheuristique dans le traitement thermique des matériaux diélectriques, Ph.D., Université du Québec à Chicoutimi, Canada, 01/2014, D. Rebaine

Beaulieu, Luc; Développement d'un système d'aide à la décision dédié à la gestion de l'entretien d'un réseau routier non revêtu, Ph.D., Université Laval, Canada, 01/2010, I. Abi-Zeid

Ben Othmane, Intissar; Reputation-based auctions for transportation procurement in collaborative markets, Ph.D., Université Laval, Canada, 05/2011, M. Rekik, S. Mellouli

Benkalai, Imène; Ordonnancement de machines avec ressources humaines partagées, Ph.D., Université du Québec à Chicoutimi, Canada, 09/2013, D. Rebaine, P. Baptiste

Bianchi, Luca; Titre à déterminer, M.Sc., Politecnico di Milano, Italy, 04/2015, A. Capone, B. Sansò

Bigeon, Emmanuel; Optimisation des opérations de maintenance basée sur la fiabilité en fatigue des turbines hydrauliques, M.Sc., École de technologie supérieure, Canada, 05/2015, S.-A. Tahan, M. Gamache

Carle, Marc-André; Titre à déterminer, Ph.D., Université de Genève, Switzerland, 06/2011, N. Zufferey

Dahmen, Sana; Confection d'horaires avec transfert d'employés entre départements, Ph.D., Université Laval, Canada, 01/2010, M. Rekik, F. Soumis

El Fassi, Hamza; Détermination des tailles de lots avec retours, Ph.D., Université Laval, Canada, 09/2008, M. Rekik

Fakhfakh, Tarek; Préviation de faillite corporative : extension du modèle structurel de Merton, Ph.D., Institut supérieur de gestion de Tunis, Tunisia, 06/2007, M. Ayadi, H. Ben-Ameur

Furukawa, Yusuke; Titre à déterminer, M.Sc., Kyoto University, Japan, 03/2014, D. Avis

Gabla Kanou, Emmanuelle; La sélection de projet dans un contexte de développement durable en présence d'incertitude: Simulations Monte Carlo, M.Sc., Université du Québec à Rimouski, Canada, 01/2012, A. Frini

Gatón, Victor; Titre à déterminer, Ph.D., Universidad de Valladolid, Spain, 10/2010, J. de Frutos

Hajjam, Sarra; Préviation de faillite corporative : modèles statistique, Ph.D., Institut supérieur de gestion de Tunis, Tunisia, 03/2009, H. Ben-Ameur

Huang, He; Supply chain management in apparel industry, Ph.D., Sichuan University of China, China, 09/2014, S. Li

Huot, Pierre-Luc; Optimisation de méthodes de calage en hydrologie, Ph.D., École de technologie supérieure, Canada, 09/2014, A. Poulin, C. Audet

Kamel Saad, Mahmoud Ibrahim; Titre à déterminer, Ph.D., INRS, Canada, 09/2013, A. Girard, L.B. Le

Koç, Cagri; Heterogeneous location- and pollution-routing problems, Ph.D., University of Southampton, England, 09/2012, T. Bektas, G. Laporte, O. Jabali

Lamah, Gilbert; Dynamique des organisations paysannes dans la gestion des écosystèmes forestiers : cas de Diécké en république de Guinée, Ph.D., Université de Conakry, Guinea, 09/2011, J.-P. Waaub, D.L. Kourouma

Liu, Qiurui; Risk and technology management, Ph.D., 09/2014, Sichuan University of China, China, S. Li

Ly, Antoine; Datamining & Assurance, Ph.D., Université Paris-Est, France, 05/2015, R. Elie, A. Charpentier

Madhooshiarzanagh, Parisa; La conception et le développement d'une méthode de désagrégation des préférences pour ELECTRE Tri-nC, Ph.D., Université Laval, Canada, 09/2013, I. Abi-Zeid

Marchand, Luc; Qualification de contraintes d'ordre deux, M.Sc., Université de Sherbrooke, Canada, 05/2013, J.-P. Dussault

Marif, Anouar; Développement d'indicateurs pour l'évaluation des performances d'une chaîne logistique dans un contexte multicritère, Ph.D., Université Laval, Canada, 09/2013, I. Abi-Zeid

Mastouri, Takoua; Déploiement de l'aide humanitaire dans les cas de tremblements de terre et des feux de forêts, Ph.D., Université Laval, Canada, 06/2013, M. Rekik, M. Nour Elfath

Morin, Michael; Planification multicritère et exécution de plans de recherche et de surveillance basés sur la visibilité des unités en milieu incertain, Ph.D., Université Laval, Canada, 08/2010, C.-G. Quimper, I. Abi-Zeid

Neily, Abdallah; Robustness in multicriteria decision aiding applied to healthcare: The QALY measure, M.Sc., Université d'Ottawa, Canada, 12/2012, S. Ben Amor

Nguyen, Thanh Tung; Analyse de terrain pour la construction de graphes de visibilité et la résolution du problème de surveillance, M.Sc., Université Laval, Canada, 05/2008, I. Abi-Zeid

Paku, Daichi; Titre à déterminer, M.Sc., Kyoto University, Japan, 03/2014, D. Avis

Respen, Jean; Titre à déterminer, Ph.D., Université de Genève, Switzerland, 03/2014, N. Zufferey

Salem, Khaled; Asymptotic cost related to the use of marginal information when available in estimating a high-dimensional copula, M.Sc., Université du Québec à Trois-Rivières, Canada, 09/2013, M. Mesfioui, C. Genest

Salvail-Bérard, Adam; Étude de la difficulté de l'entraînement des réseaux de neurones profonds au niveau de l'optimisation mathématique, Ph.D., Université de Sherbrooke, Canada, 01/2013, H. Larochelle, J.-P. Dussault

Simard, Catherine; Algorithmes optimaux en optimisation convexe, M.Sc., Université de Sherbrooke, Canada, 05/2012, J.-P. Dussault

Smaili, Youcef; L'analyse multicritère en maintenance industrielle, Ph.D., Université Laval, Canada, 09/2012, I. Abi-Zeid

Sokun, Hamza; Robust radio resource allocation in wireless networks with model uncertainty, Ph.D., Carleton University, Canada, 05/2013, H. Yanikomeroglu, M. Huang

Sopot, Eugen; Maritime operations planning for servicing offshore installations, Ph.D., Molde University College, Norway, 09/2011, I. Gribkovskaia, G. Laporte

Thevenin, Simon; Titre à déterminer, Ph.D., Université de Genève, Switzerland, 03/2014, N. Zufferey

Togbodouo Téwa, Jeanne; Vulnérabilité et stratégies d'adaptation des communautés face aux inondations dans un contexte de changements climatiques: cas de la commune urbaine de Gueckédou (Guinée), Ph.D., Université de Conakry, Guinea, 09/2011, J.-P. Waaub, D.L. Kourouma

Toussaint, Maxime; Reconstruction 4D en tomographie par émission de positron, M.Sc., Université de Sherbrooke, Canada, 01/2012, J.-P. Dussault

Yu, Yu; A study of the effect of low-carbon technology implementation by using data envelopment analysis, Ph.D., 09/2014, Hohai University of China, China, S. Li

7 – GRANTS AND CONTRACTS

Infrastructural grants

Supporting Academic Institutions	177 000 \$	
FRQNT – Strategic Clusters	390 000 \$	
Others	37 500 \$	
Sub-total		604 500 \$

Research grants

NSERC

Research Chairs	1 417 500 \$	
Collaborative research & development	1 465 252 \$	
Individuals	2 049 400 \$	
Research Tools and Instruments	48 000 \$	
Others	552 414 \$	
Sub-total		5 532 566 \$

SSHRC

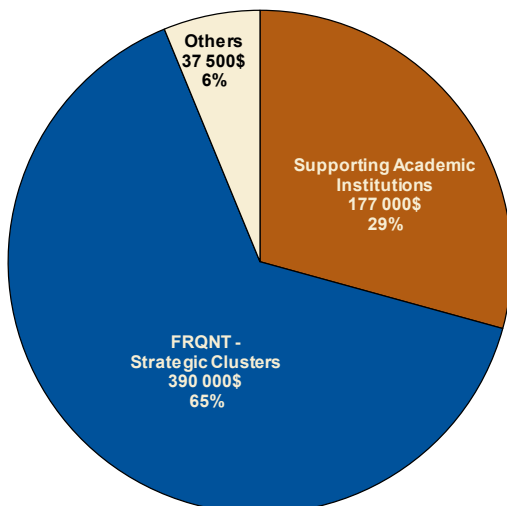
182 576 \$

FRQNT

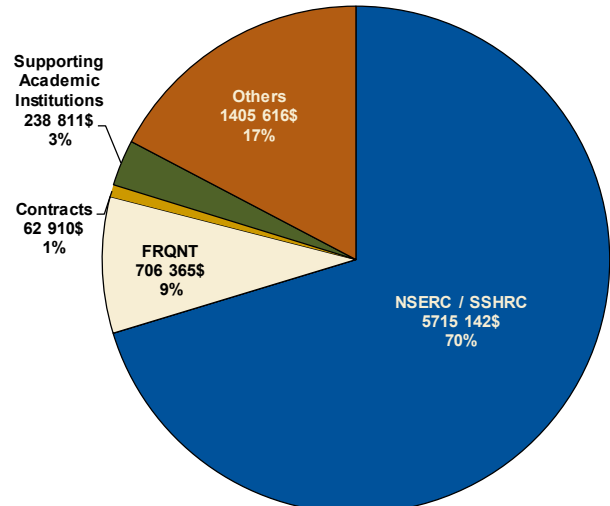
Teams	395 911 \$	
Action concertées program	5 401 \$	
Young researchers	88 704 \$	
Others	74 849 \$	
FRQNT/BMP/CRSNG/BMP	41 500 \$	
FRQNT/Partnership	100 000 \$	
Sub-total		706 365 \$

Supporting Academic Institutions	238 811 \$
Others grants	1 405 616 \$
Contracts	62 910 \$
TOTAL	8 733 343 \$

Infrastructural Grants



Research Grants



8 – ORGANIZATION OF CONFERENCES, COLLOQUIUM AND SEMINARS

Miguel F. Anjos

Coordinator of the GERAD/CRC-ONDI Seminars

Member of the program committee of the Optimization 2014 conference, Guimarães, Portugal, July 2014

Member of the international organizing committee of the 4th International Conference on Engineering Optimization, Lisbon, Portugal, September 2014

David Avis

Co-organizer of the Workshop on Extension Complexity: An Update and Future Directions, Kyoto, Japan, June 9, 2014

Co-organizer of the ELC Workshop on Exponential Lower Bounds for Pivoting Algorithms, Tokyo, Japan, March 24-25, 2015

Pierre Baptiste and Diane Riopel

Members of the scientific committee of the 5th International Conference on Information Systems, Logistics and Supply Chain (ILS 2014), the Netherlands, August 24–27, 2014

Members of the international program committee of the 10th International Conference on Modeling, Optimization & SIMulation (MOSIM'14), France, November 5–7, 2014

François Bellavance

Member of the scientific committee and co-chair of the symposium "Les distractions au volant," which was part of the 27^e Entretiens du Centre Jacques Cartier, Québec, Canada, October 7–8, 2014

Responsible for organizing the annual conference of the Road Safety Research Network, Université Laval, Québec, Canada, May 8, 2015

Hatem Ben-Ameur

Member of the scientific committee of the 8th International Finance Conference (IFC8), Paris, France, March 12–14, 2015

François Bouffard

Organizer of the TISED-GERAD Research Workshop, "Energy Storage in Sustainable Electricity Systems: Technology Push, Policy Pull," Montréal, Canada, November 20, 2014

Member of the technical program committee for the University of Washington-Pacific Northwest National Laboratory Joint Power System Reliability and Resiliency Workshop, Seattle, USA, October 2014

Michèle Breton, Alain Haurie, Guiomar Martín-Herrán and Georges Zaccour

Members of the program committee of the Sixteenth International Symposium on Dynamic Games and Applications, Amsterdam, the Netherlands, July 9–12, 2014

Michèle Breton and Georges Zaccour

Organizers of the Fifth Workshop on Dynamic Games in Management Science, Montréal, Canada, November 27–28, 2014

Peter E. Caines

Co-organizer of ISS Informal Systems Seminars

Jean-François Cordeau

Member of international advisory committee of the Third Annual Conference of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), Norway, June 22–25, 2014

Roussos Dimitrakopoulos

Chair of the 2014 Orebody Modelling and Strategic Mine Planning SMP Symposium, Perth, Australia, November 24–26, 2014

Organizer of the 2014 COSMO Technical Day, Montréal, Canada June 26, 2016

Charles Gauvin, Thibault Lehouillier and Dominique Orban

Coordinators of GERAD's "Séminaires pas ordinaires" seminar series

Christian Genest

Organizer of the CRM-CANSSI Workshop on New Horizons in Copula Modelling, Montréal, Canada, December 15–18, 2014

Organizer of the conference "La statistique au service de la collectivité: Hommage à Louis-Paul Rivest pour ses 60 ans," Québec, Canada, August 28–29, 2014

Member of the International Scientific Committee of the 21^o Simpósio de Probabilidade e Estatística, Associação Brasileira de Estatística, Natal Brazil, July 20–25, 2014

Alain Hertz

Member of the organizing committee for the GO IX (Graphs and Optimization) conference, Sirmione, Italy, July 6–10, 2014

Raf Jans

Organizer of the internal GOL seminar series at HEC Montréal

Member of the steering committee for the Fifth International Workshop on Lotsizing, Porto, Portugal, August 27–29, 2014

Michael Kokkolaras

Member of the scientific committee and mini-symposium organizer, International Conference on Engineering and Applied Sciences Optimization, Greece, June 4–6, 2014

Pierre L'Ecuyer

Member of the program committee of SIMULTECH 2014: International Conference on Simulation and Modeling Methodologies, Technologies and Applications, Vienna, Austria, August 28–30, 2014

Gilbert Laporte

Co-host of the C Workshop on scientific writing, HEC Montréal

Member of the international advisory committee of the Third Annual Conference of the EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), Norway, June 22–25, 2014

Jérôme Le Ny

Member of the research seminar committee of the Department of Electrical Engineering, Polytechnique Montréal, Canada

Member of the program committee of the 6th ACM/IEEE International Conference on Cyber-Physical Systems, Seattle, USA, April 14–16, 2015

Aditya Mahajan

Co-organizer of the workshop on Optimal Cooperation, Communication, and Learning in Decentralized Systems, Vancouver, Canada, October 17, 2014

Co-organizer of ISS Informal Systems Seminar

Georges Zaccour

Co-organizer, Workshop at the Boundaries of Dynamic Games, Control and Viability, France, June 19–21, 2014

9 – AWARDS, HONOURS AND NOMINATIONS

Elspeeth Adams, Miguel F. Anjos and Mathilde Peyrega

Finalists in the 2014 MOPTA competition "Time-Ahead Pricing of Energy Supply," which ended June 13, 2014

Miguel F. Anjos

Plenary speaker at MINLP 2014, Pittsburgh, USA, June 2–5, 2014

Plenary speaker at the 12th EUROPT Workshop on Advances in Continuous Optimization, Perpignan, France, July 10–12, 2014

Plenary speaker at IFORS 2014, Barcelona, Spain, July 13–18, 2014

Plenary speaker at Modeling and Optimization: Theory and Applications (MOPTA) 2014, Bethlehem, USA, August 13–15, 2014

Guest speaker, Smart Grid Canada, Montréal, Canada, October 2014

Guest speaker, Entretiens Jacques Cartier 2014, Polytechnique Montréal & ETS, Montréal, Canada, October 2014

Guest speaker, ISyE Colloquium, Georgia Institute of Technology, Atlanta, USA, October 2014

Guest speaker, University of Toronto, Seminar Series, Mechanical & Industrial Engineering, Toronto, Canada, October 2014

Guest speaker, Tilburg University, Seminar, Econometrics & Operations Research, the Netherlands, October 2014

Plenary speaker at the 8th Annual Trans-Atlantic Infraday on Energy, Federal Energy Regulatory Commission (FERC), Washington DC, USA, November 2014

Plenary speaker at the 2014 Joint NZSA & ORSNZ Annual Conference, Wellington, New Zealand, November 23–26, 2014

Guest speaker, Fields Industrial Optimization Seminar, Fields Institute, Toronto, Canada, March 2015

Guest speaker, University of Southampton, United Kingdom, May 2015

Plenary speaker at NOW 2015, La Rochelle, France, May 18–20, 2015

Diego Amaya

Recipient of the best publication award for his article titled "Does Realized Skewness Predict the Cross-Section of Stock Returns?" published in the *Journal of Financial Economics*, UQÀM, May 14, 2015

Jalal Arabneydi

Best Student Paper Award, IEEE Conference on Decision and Control, 2014

Charles Audet

Guest speaker at the Groupe de Travail sur la Programmation Mathématique, Toulouse, France, June 18–19, 2014

Sarah Ben Amor

Guest speaker, NEOMA Business School, Rouen, France, March 2015

Hatem Ben-Ameur

Promoted to Full Professor by the HEC Department of Decision Sciences of HEC Montréal, June 1, 2014

François Bouffard

Guest speaker at the IEEE Power & Energy General Meeting, National Harbor, USA, July 2014

Peter Silvester Faculty Research Award, McGill University, Montréal, Canada, 2014

IEEE PES Technical Committee Prize Paper Award, 2014

Plenary speaker at the 4th Climate Change Technology Conference, Montréal, Canada, May 2015

Peter Caines

NCMIS Distinguished Lecturer: National Center for Mathematics and Interdisciplinary Sciences, Chinese Academy of Sciences, China, October 2014

Kwan Chao-Chih Distinguished Lecturer: Institute of Systems Science, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China, October 2014

Guest speaker, Institute of Systems Science, Chinese Academy of Sciences, China, October 2014

Guest speaker, Department of Automation, Beijing Institute of Technology, China, October 2014

Guest speaker, Department of Electrical Engineering, City University of Hong Kong, China, October 2014

Guest speaker, Department of Applied Mathematics, Hong Kong Polytechnic University, China, October 2014

Guest speaker, School of Electrical and Electronic Engineering, Nanyang University of Technology, Singapore, December 2014

Guest speaker, Department of Electrical and Computer Engineering, National University of Singapore, Singapore, December 2014

Guest speaker, ICARCV, Singapore, December 10–12, 2014

Arthur Charpentier

Guest speaker, ACP Meetings, Katholieke Universiteit Leuven, Belgium, May 2015

Guest speaker, Le Mans Insurance & Finance Risk Colloquium, France, November 2014

Guest speaker, R in Insurance, London, United Kingdom, July 2014

Marilène Cherkesly

Recipient of the NSERC Alexander Graham Bell Scholarship, 2014

Recipient of the Lieutenant Governor of Quebec's Youth Medal, May 2, 2015

Geoffroy Chevalier

Recipient of an award for best internship in the category "cognitive science and complex systems," during the X-Forum in France, November 13, 2014

Claudio Contardo

Recipient of the 2015 young researcher award, UQÀM, May 4, 2015

Jean-François Cordeau

Elected member of the College of New Scholars, Artists and Scientists of the Royal Society of Canada, 2014

Anaïs Correc

Listed on the Honour Roll for the Fall 2014 term for obtaining the highest GPA in Business Analytics after completing at least 15 credits

Erick Delage

Promoted to Associate Professor by the Department of Decision Sciences of HEC Montréal, June 1, 2014

Appointed Chairholder of the Canada Research Chair in Decision Making Under Uncertainty

Guy Desaulniers

Guest speaker, OW 2015, La Rochelle, France, May 18–20, 2015

Guest speaker, Route 2014, Snekkersten, Denmark, June 1–4, 2014

Jacques Desrosiers

Plenary speaker at the thematic seminar "Modélisation, Optimisation. De l'idée à la création d'Entreprises," Limoges, France, June 17–20, 2014

Roussos Dimitrakopoulos

Recipient of the 2015 Georges Matheron Lecturer Award, International Association for Mathematical Geosciences

Recipient of the APCOM Recognition Award

Marc Fredette

Invention disclosure: Visual tool to represent physiological signals (2015). Courtemanche, F., Léger, P.-M., Fredette, M., Sénécal, S., Dufresne, A.

Recipient of an teaching scholarship to attract and retain the best administration teachers in Quebec universities: \$1,050,000 for 2009–2016, Quebec ministry of education and higher learning, Canada

Jean-François Frigon

Promoted to Full Professor by the Department of Electrical Engineering of Polytechnique Montréal, June 1, 2014

Jean-Bertrand Gauthier

Recipient of the 2015 Esdras-Minville Award, HEC Montréal, April 8, 2015

Luc-Alain Giraldeau

Recipient of the Geoffroy-Saint-Hilaire Award, SFECA, 2014

Frédéric Godin

Recipient of the 2014 Best Thesis Award for his thesis titled "Couverture globale de risques en marché incomplet," HEC Montréal

Mehmet Gumus

Recipient of the MSOM iFORM Best Paper Award, INFORMS, 2015

Recipient of the Desautels Faculty Scholar Award, McGill University, 2014–2017

Guest speaker at the Catolica-Lisbon School of Business and Economics, Portugal, March 2015

Pierre Hansen

Plenary speaker at the 3rd International conference on Variable Neighborhood Search, Tunisia, October 8–11, 2014

Plenary speaker at the 13th International Symposium On Locational Decision (ISOLDE), Italy, June 16–20, 2014

Minyi Huang

Guest speaker at the Mathematical Cybernetics: Hybrid, Stochastic and Decentralized Systems Conference, Ottawa, Canada, May 28–29, 2015

Raf Jans

Recipient of the Chenelière Éducation/Gaëtan Morin Award, HEC Montréal, 2014

Promoted to Full Professor by the Department of Logistics and Operations Management of HEC Montréal, June 1, 2014

Elnaz Kanani Kuchesfehani

Recipient of the 2015 Esdras-Minville Award, HEC Montréal, April 8, 2015

Michael Kokkolaras

Guest speaker at the National Colloquium on Sustainable Aviation, Toronto, Canada, May 27–28, 2015

Guest speaker at the Institut de Recherche en Communications et Cybernétique de Nantes, France, April 17, 2015

Guest speaker at the Department of Mechanical and Aerospace Engineering, Royal Military College of Canada, Kingston, Canada, March 23, 2015

Guest speaker at the Probabilistic Design Lab and Structures Lab, General Electric Global Research Center, New York, USA, September 25, 2014

Semi-plenary speaker at the International Conference on Engineering and Applied Sciences Optimization, Greece, June 2014

Pierre L'Ecuyer

Recipient of the 2104 Award of Merit from the CORS

Plenary speaker at SEPADS 2015, Dubai, United Arab Emirates, February 2015

Plenary speaker at the 10th Workshop on Performance Evaluation (AEP 2014), France, June 2014

Jérôme Le Ny

Guest speaker at the University of Illinois at Urbana Champaign, USA, April 15, 2015

Guest speaker, McGill University, Montréal, February 6, 2015

Gilbert Laporte

Renewal of the Canada Research Chair in Distribution Management for the next seven years

Recipient of the Lifetime Achievement in Location Analysis Award from INFORMS, June 2014

Winner of the Optimize the Real World Contest (Roel G. Van Anholt, Leandro C. Coelho, Gilbert Laporte, and Iris F.A. Vis) organized by FICO, San Jose, USA, July 2014

Recipient of a certificate of excellence in reviewing from the journal *Computers & Operations Research*, September 2014

Guest speaker at the Distinguished Transportation Lecture, Institute of Transport Studies, The University of Hong Kong, China, August 22, 2014

Fabrice Larribe

Guest speaker at the 4th Annual Canadian Human and Statistical Genetics Meeting, Vancouver, Canada, April 20, 2015

Guest speaker at the Workshop on Emerging Statistical Challenges and Methods For Analysis of Massive Genomic Data in Complex Human Disease Studies, Banff International Research Station, Canada, June 24, 2014

Sébastien Le Digabel

Guest speaker at Canmet Énergie, Montréal, Canada, 2015

Guest speaker at Bombardier, Montréal, Canada, 2014

Aditya Mahajan

Promoted to Honorary Member, IEEE

Guest speaker at the conference on Mathematical Cybernetics: Hybrid, Stochastic and Decentralized Systems, Ottawa, Canada, May 28–29, 2015

Roland P. Malhamé

Plenary speaker at the Fifth Workshop on Dynamic Games in Management Science, Montréal, Canada, November 27–28, 2014

Guest speaker at the conference on Mathematical Cybernetics: Hybrid, Stochastic and Decentralized Systems, Ottawa, Canada, May 28–29, 2015

Lê Nguyen Hoang

Received a special mention for the quality of his thesis titled "Conception bayésienne de mécanismes et quantification de l'équité appliquées à la construction d'horaires personnalisés"

Dominique Orban and Mehdi Towhidi

Winners of the 2014 COIN-OR Cup, San Francisco, USA, November 10, 2014

Mathilde Peyrega

Recipient of a scholarship for a two-month international internship to the United States, July 2014

Recipient of an FRNQNT doctoral research scholarship, May 2015

Jean-François Plante

Promoted to Associate Professor by the Department of Management Sciences of HEC Montréal, June 1, 2014

Brunilde Sansò

Runner-up best paper for "Detour Planning for Fast and Reliable Failure Recovery in SDN with OpenState" during the International Conference on Design of Reliable Communication Networks 2015, Kansas City, USA, March, 25–27, 2015

Sara Séguin

Recipient of an FRQNT scholarship for a four-month international internship in Norway, 2015

François Soumis

Recipient of the 2014 Lionel-Boulet Award, Gouvernement du Québec, November 4, 2014

Sihem Taboubi

Guest speaker at Université Koç, Turquie, April 16, 2015

Nicolas Zufferey

Plenary speaker at the 5th International Conference on Metaheuristics and Nature-Inspired Computing (META 2014) Marrakech, Morocco, October 27–31, 2014

10 – PUBLICATIONS

Refereed papers in scientific journals

2014

Abi-Zeid, I., Taillandier, F., Taillandier, P., Sauce, G., Bonetto, R., An interactive decision support method for real estate management in a multicriteria framework, *International Journal of Strategic Property Management*, 18(3), 265-278

Aloise, D., Queiroz dos Santos, J.P., de Melo, J.D., Duarte Neto, A.D., Reactive search strategies using reinforcement learning, local search algorithms and variable neighborhood search, *Expert Systems with Applications*, 41(10), 4939-4949

Anjos, M.F., Chang, X.-W., Ku, W.-Y., Lattice preconditioning for the real relaxation branch-and-bound approach for integer least squares problems, *Journal of Global Optimization*, 59(2), 227-242

Aouchiche, M., Hansen, P., Distance spectra of graphs: A survey, *Linear Algebra and its Applications*, 458, 301-386

Aouchiche, M., Hansen, P., Some properties of the distance Laplacian eigenvalues of a graph, *Czechoslovak Mathematical Journal*, 64(3), 751-761

Audet, C., Orban, D., Dang, K.-C., Optimization of algorithms with OPAL, *Mathematical Programming Computation*, 6(3), 233-254

Audet, C., Ouali, M.-S., Aoudjit, H., Replacement scheduling of a fleet of hydroelectric generators: A case study, *International Journal of Performability Engineering*, 10(6), 615-630

Audet, C., Hansen, P., Belhaiza, S., A note on bimatrix game maximal Selten subsets, *Arabian Journal of Mathematics*, 3(3)299-311

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- Labriet, M., Giannakidis, G., Gallachóir, Ó., Tosato, G.C., Informing energy and climate policies using energy systems models. Insights from scenario analysis increasing the evidence base, *Lecture Notes in Energy*, 426 pages
- Laporte, G., Nickel, S., Saldanha da Gama, F., *Location science*, Springer, 644 pages
- Laporte, G., Nickel, S., Saldanha da Gama, F., Introduction to location science, dans G. Laporte, S. Nickel, F. Saldanha da Gama (eds.), *Location Science*, Springer, 1-18
- Laporte, G., Mesa, J.A., The design of rapid transit networks, dans G. Laporte, S. Nickel, F. Saldanha da Gama (eds.), *Location Science*, Springer, 581-594
- Larocque, D., Nevalainen, J., L1-Regression for multivariate clustered data, dans K. Nordhausen & S. Taskinen (eds.), *Modern Nonparametric, Robust and Multivariate Methods*, Springer, 225-234
- Le Digabel, S., Talgorn, B., Kokkolaras, M., Blackbox optimization in engineering design: Adaptive statistical surrogates and direct search algorithms, dans N.D. Lagaros, M. Papadrakakis (eds.), *Engineering and Applied Sciences Optimization, Computational Methods in Applied Sciences*, Springer International Publishing, Vol. 38, 359-383
- Martín-Herrán, G., Cabo, F., Martínez-García, M.P., Global warming and R&D-based growth in a trade model between environmentally sensitive and environmentally neglectful countries, dans L. Bernard, W. Semmler (eds.), *The Oxford Handbook of the Macroeconomics of Climate Change*, Oxford University Press, 222-247
- Zufferey, N., Graph coloring models and metaheuristics for packing applications, dans J.D. Pintér & G. Fasano (eds.), *Optimized Packings and their Applications, Series in Optimization and Its Applications*, 295-317

To be published

- Brimberg, J., Mladenović, N., Urosević, D., Maximally diverse grouping and Clique partitioning problems with Skewed general variable neighborhood search, *Models, Algorithms, and Technologies for Network Analysis / From the 4th International Conference on Network Analysis, Springer Proceedings in Mathematics and Statistics*, Springer
- Dimitrakopoulos, R., *Applied strategic mine planning: Modelling and optimization technologies in practice*, Springer
- Genest, C., Chebana, F., Copula modeling in hydrological frequency analysis, dans V. Singh (ed.), *Chow's Handbook of Applied Hydrology, Second Edition*, McGraw-Hill
- Hansen, P., Aloise, D., *Clustering, Handbook of Discrete and Combinatorial Optimization*
- Laporte, G., Demir, E., Bektas, T., Green vehicle routing, dans H.N. Psaraftis (ed.), *Green Transportation Logistics: The Quest for Win-Win Solutions*, Springer
- L'Ecuyer, P., *Random Number Generation and Quasi-Monte Carlo*, Wiley StatsRef: Statistics Reference Online, John Wiley, Chichester, UK
- Malhamé, R.P., Kizilkale, Arman C., Collective target tracking mean field control for Markovian jump-driven models of electric water heating loads, dans K. Vamvoudakis, J. Sarangapani (eds.), *Recent Advances*

in *Adaptation and Control, Lecture Notes in Control and Information Sciences*, Springer

Mladenović, N., Hanafi, S., Valério de Carvalho, J.M., Macedo, R., Alves, C., Ramos, B., Integer programming based approaches for multi-trip location routing, dans R.J. Fonseca, G.-W. Weber & J. Telhada (eds.), *Computational Management Science, State of the Art 2014*, Springer

Rémillard, B., Ghoudi, K., Diagnostic tests for innovations of ARMA models using empirical processes of residuals, dans R. Kulik (ed.), *Asymptotic Laws and Methods in Stochastics, Fields Institute Communications Series*, Springer

11 – CONTRIBUTIONS TO THE SCIENTIFIC COMMUNITY

Daniel Aloise

Referee for the following journals: *European Journal of Operational Research*; *Journal of Global Optimization*; *4OR*; *IEEE Transactions on Systems, Man and Cybernetics—Part B: Cybernetics*; *Discrete Applied Mathematics*, *Pesquisa Operacional*; *Computers & Operations Research*; *International Transactions in Operational Research*; *Journal of Classification*; *Annals of Operations Research*

Diego Amaya

Permanent member of the CDPQ Research Chair in Portfolio Management

Member of the American Finance Association

Miguel F. Anjos

Chairholder, Canada Research Chair in Discrete Nonlinear Optimization in Engineering

Director of the Trottier Energy Institute, Polytechnique Montréal

Member, Waterloo Institute for Sustainable Energy (WISE), University of Waterloo

Interview in *Montreal Gazette* on May 27, 2015: "Quebecers Sound Off on Energy and Global Warming"

Interview in *Le Journal de Montréal* on May 27, 2015: "Energy Issues Are of Little Interest to People" (in French)

Interview in *Journal Métro* on May 27, 2015: "Quebecers Lack Knowledge about Energy" (in French)

Interview in PLAN, the magazine of Quebec's order of engineers, June–July 2014, pp. 40–42, "Energy has an Institute" (in French)

Reviewer for one tenure and promotion case in the USA

Vice-president of the Montréal section of the Canadian Operational Research Society

Member of the selection committee for the ACFAS Pierre-Dansereau Award

Member of the Mitacs Research Council

Member of the selection committee for graduate scholarships in the area of energy, Fonds de recherche du Québec

Editor-in-chief of *Optimization and Engineering* and *IEEE Transactions on Power Systems*

Associate editor for *RAIRO-OR*, *Operations Research Letters*, and *Surveys in Operations Research and Management Science*

Member of the editorial board for *Discrete Applied Mathematics*

Referee for the following journals: *European Journal of Operational Research*; *Mathematical Programming (Series A)*; *Mathematical Programming Computation*; *Renewable and Sustainable Energy Reviews*

Reviewer for a grant application for NSERC

Scientific expert, Trottier Energy Futures Project (TEFP)

Fellow of The Higher Education Academy (HEA)

Member of the Society for Industrial and Applied Mathematics (SIAM); Mathematical Optimization Society (MOS); Institute for Operations Research and the Management Sciences (INFORMS); Institute of

Electrical and Electronics Engineers (IEEE); IEEE Power & Energy Society (IEEE-PES); Canadian Operational Research Society (CORS); Portuguese Operational Research Society (APDIO)

Charles Audet

Editor of the *GERAD Newsletter*

Member of the editorial boards of the *Journal of Global Optimization*, *Pacific Journal on Optimization* and *Computational Optimization and Applications*

David Avis

Professor at Kyoto University, Japan

Member of the editorial boards for the following: *Discrete Applied Mathematics*; *Computational Geometry: Theory and Applications*; *Graphs and Combinatorics*; *Discrete and Computational Geometry*

Referee for the following journals: *Advances in Computing Research*, *Algorithmica*, *Annals of Discrete Mathematics*, *American Math Monthly*, *Australasian Journal of Combinatorics*, *Communications of the ACM*, *Discrete Applied Mathematics*, *Discrete Mathematics*, *Discrete and Computational Geometry*, *European Journal of Combinatorics*, *Graphs and Combinatorics*, *IEEE Transactions on Computers*, *IEEE Transactions on Information Theory*, *Information Processing Letters*, *Information Sciences*, *Journal of Classification*, *Journal of Fire Prevention Engineering*, *Journal of Graph Theory*, *Journal of Combinatorial Theory B*, *Journal of the ACM*, *Journal of Computers and Systems Sciences*, *Journal of Optimization Theory and Applications*, *Journal of Symbolic Computation*, *Mathematical Programming*, *Networks*, *Neural Networks*, *SIAM Journal of Computing*, *The Visual Computer*, *Transactions on Mathematical Software*

Olivier Bahn

Member of IEDDEC and CORS

Member of the training committee and the research committee of the IEDDEC

Member of the aggregation promotion committee and of the MBA steering committee at HEC Montréal

Associate editor for the *Journal of Applied Mathematics*, *Energy Strategy Reviews* and *Environmental Modeling and Assessment*

External evaluator for the renewal of a Tier 1 Canada Research Chair

Invited Professor at the Institut Banque et Finance, University of Zurich, Switzerland, December 15–19, 2014

Expert consulting for government organizations and private companies: Environment Canada, for the development of its EC-IAM integrated evaluation model; expert looking at greenhouse gas reduction strategies in Canada for the Trottier Energy Futures Project, The Trottier Family Foundation, The Canadian Academy of Engineering and the David Suzuki Foundation; impact analysis of oil pipelines on the oil and gas industry in Newfoundland and Labrador, in partnership with the ESMIA and IEC consulting companies, for the benefit of the CARE Centre of Memorial University, Newfoundland

Pierre Baptiste

Director of the Department of Mathematics and Industrial Engineering, Polytechnique Montréal

Member of the professional relations committee, Polytechnique Montréal
 Board member of CEFRIO
 Deputy chair of the board of the website "Voyagez futé"
 Referee for the following journals: *Journal européen des systèmes automatisés*, *International Journal of Production Economics*

François Bellavance

Sabbatical leave from June 1 to December 31, 2014

Member of the Table québécoise de sécurité routière
 Board member of the Canadian Association of Road Safety Professionals
 Director of the Réseau de recherche en sécurité routière, Fonds de recherche du Québec—MTQ—SAAQ
 Member of the CIRRELT board and executive committee
 Member of the Road Safety Research Network
 Member of the Canadian Association of Road Safety Professionals
 Member of the Statistical Society of Canada
 Member of the research ethics committee, HEC Montréal
 Member of the appeals committee, HEC Montréal
 Member of the professor ethics committee, HEC Montréal
 Member of the selection committee for the FRQNT transportation scholarship (A4)
 Member of the recruitment committee for new professors and lecturers in the Department of Decision Sciences, HEC Montréal
 Member of the HEC Montréal internal selection committee for the NSERC doctoral scholarship and for SSHRC's talent scholarship
 Member of the selection committee for the doctoral admissions and midterm Lektor-Brousseau scholarships, HEC Montréal
 Evaluator of a MITACS scholarship application
 Guest editor for a special number on driving distractions in the journal *Recherche Transports Sécurité*
 Referee for the following journals: *Applied Soft Computing*, *Assurances et gestion des risques*, *Epidemiology*, *Journal of Business Ethics*, *Journal of Health Economics*, *Journal of Statistical Planning and Inference*, *Journal of Nonparametric Statistics*, *Statistics & Probability Letters*

Hatem Ben-Ameur

Member of the GERAD scholarship selection committee
 Associate editor for a special series on finance of the *Annals of Operations Research*
 Consultant on behalf of Caterpillar Tunisia: sales forecasting and order planning, 2015

Sarah Ben Amor

Member of CORS, INFORMS and the International Society for Multi-Criteria Decision Making

Mathieu Boudreault

Committee member, Task Force on Canadian Eligibility Requirements, Canadian Institute of Actuaries
 Chair of the academic relations committee and the academic research subcommittee of the research committee, Canadian Institute of Actuaries

Co-chair, education syllabus committee, Canadian Institute of Actuaries
 Committee member of the Education and Eligibility Council, Canadian Institute of Actuaries
 Associate member of the Canadian Institute of Actuaries
 Fellow (FSA), Society of Actuaries
 Consultant for the AMF and the Casualty Actuarial Society
 Referee for the following journals: *Insurance: Mathematics and Economics*; *North American Actuarial Journal*; *Quantitative Finance*; *Variance* and *Journal of Credit Risk*

François Bouffard

Invited expert: Renewable energy in electricity networks expert roundtable, Consultation on Quebec's 2016–2025 energy policy, Quebec Ministry of Energy and Natural Resources, 2015

Member of the IOQ
 Member of the Trottier Institute for Sustainability in Engineering and Design
 Member of the editorial board of *IEEE Transactions on Power Systems*, *IEEE Power Engineering Letters*, *Journal of Modern Power Systems and Clean Energy*
 Member of the Power System Analysis, Computation and Economics Committee of the IEEE Power & Energy Society
 Referee for the following journals and agencies: *IEEE Transactions on Power Systems*; *IEEE Transactions on Smart Grid*; *IET Generation, Transmission and Distribution*; *IEEE Transactions on Sustainable Energy*; NSERC and Fonds National de la Recherche Luxembourg

Tamer Boyaci

Visiting Professor, Koc University, Turkey, January–June 2015
 Member of CORS, POMS and INFORMS
 Senior editor, *Production and Operations Management*
 Associate editor of *Socio-Economic Planning Sciences*, *Decision Sciences*
 Topical editor on energy and the environment, *Wiley Encyclopedia of Operations Research and Management Science (EORMS)*
 Committee member for the Best Paper Award of the Manufacturing & Service Operations Management (M&SOM) Society; iFORM (Interface of Finance, Operations, and Risk Management) SIG (Special Interest Group)
 External reviewer on tenure and promotion to associate professor or to full professor at the University of Toronto, Rennsler Polytechnic Institute, American University of Beirut, Dalhousie University, John's Hopkins University and Indiana University
 Referee for the following journals and granting agencies: *Management Science*, *Operations Research*, *Manufacturing & Service Operations Management*, *Naval Research Logistics*, *IIE Transactions*, *Production Operations Management*, *European Journal of Operational Management*, *Marketing Science*, *International Journal of Production Economics*, *Annals of Operations Research*, *INFOR*, *Computers and Operations Research*, NSERC and SSHRC

Michèle Breton

Professorship in dynamic optimization, HEC Montréal
 Fellow of the Royal Society of Canada
 Director of Academic Affairs, HEC Montréal
 President of the rankings committee and the program committee

Member of the Fondation HEC Montréal's executive committee, pedagogical committee, IT governance committee, teaching masters' evaluation committee and orientation and liaison committee

Member of the graduate studies liaison committee, Quebec's Ministry of Education, Graduate Studies and Research

Member of the studies commission, Université de Montréal

Member of the academic affairs committee, BCI (CREPUQ)

Member of the liaison committee between the Université de Montréal graduate studies department and affiliated schools

Training seminars on "Programa ejecutivo de capacitación en el sector energía," international projects, Análisis de riesgo, Mexico, November 2014

Member of the board of examiners for the Daniel-Brosseau and Peter-Letko grant, HEC Montréal

President and treasurer, International Society of Dynamic Games

Associate editor of the following: *Automatica*, *International Game Theory Review*, *International Transactions in Operational Research*, *Dynamic Games and Applications*

Member of the ISDG, the Society of Computational Economics and the Game Theory Society

Member representative to the GERAD board

Referee for the following journals: *Environmental and Resource Economics*, *Ecological Modeling*, *Journal of Economic Dynamics and Control*, *Energy Economics* and *Dynamic Games and Applications*

Member of the selection committee for new members of the Royal Society of Canada

Member of the scientific committee, Montréal Structured Finance and Derivatives Institute

Guest member of the Interdisciplinary Adjudication Committee, Canada Research Chairs program

Jack Brimberg

Affiliated Professor at HEC Montréal, Canada

Member of these professional associations: Professional Engineers of Ontario, Operations Research Society of America, Canadian Operational Research Society

Member of the Editorial Board of *Yugoslav Journal of Operations Research*

Reviewer for *Mathematical Reviews*

Peter Caines

Chairholder of the Sir William C. Macdonald Chair in Electrical Engineering, McGill University

James McGill Professorship, McGill University

Fellow of the Society for Industrial and Applied Mathematics, the Royal Society of Canada and the Institute of Mathematics and its Applications

Life Fellow of the Institute of Electrical and Electronics Engineers

Senior Fellow of the Canadian Institute of Advanced Research

Member of the IEEE Control Systems Society and the American Mathematical Society

Member of HYCON Highly-complex and networked control systems

Member of the following committees at McGill University: committee on staff grievances and disciplinary procedures; department reappointment and tenure committee; department chair's advisory committee; committee

for the award of summer research scholarships; committee for award nominations

Member of IFAC technical committee on discrete and hybrid systems

Annual reviewer of papers for the leading conferences on systems and control: IEEE Conference on Decision and Control, American Control Conference, IFAC Conferences and Symposia, European Conference on Control and workshops, etc.

Member of the editorial board of *Foundations and Trends in Systems and Control*

Senior editor of *Non-linear Analysis—Hybrid Systems Journal*

Associate editor of *Communications in Information and Systems* and *IMA Journal of Mathematical Control and Information*

Reviewer for NSERC research grant proposals and the Hong Kong University Research Grants Council

Referee for the following journals: *IEEE Transactions on Automatic Control*; *SIAM Journal on Control and Optimization*; *Systems and Control Letters*; *Kybernetika*; *Nonlinear Analysis - Hybrid Systems*

Visiting Research Professor at the Department of Mathematics, City University of Hong Kong, September 2014–February 2015

Visiting Professor at the School of Mathematics and Statistics, Carleton University, February–August 2015

INTERNATIONAL COLLABORATION

Collaboration with Professor James Juanhui Huang, The Hong Kong Polytechnic University, is being initiated on a project titled "Mean Field Game (MFG) and Major-Minor (MM) Optimization with Positive Controls" within the framework of the Hong Kong Universities Research Grants Commission

Gilles Caporossi

Editor of the *GERAD Newsletter*

Guest professor, Université Paris-Est –Créteil, France, January 19–23, 2015

Guest professor, Université fédérale d'Espírito Santo, Brazil, May 4–29, 2015

Referee for the following journals: *European Journal of Operations Research*, *Computers and Operations Research*, *Discrete Applied Mathematics*, *Psychometrika*

Member of the International Academy of Mathematical Chemistry

Associate member, Institut des textes et manuscrits modernes (ENS/CNRS, France)

Member of the research ethics committee of HEC Montréal

Arthur Charpentier

Lecturer, Faculté de Sciences Économique, Université de Rennes 1, France

Director of data science training for actuarial studies, Institut des Actuaire & Institut du Risk Management, Paris, France

Member of the FRQNT evaluation committee for the graduate and postgraduate student program

Associate editor, *European Actuarial Journal*

Member of the Actuaries' Institute, France

Member (intermittently) of the Société Française de Statistique (SFdS), de la Société Canadienne de Statistique (SSC) and the American Economic Association (AEA)

Fabien Chauny

In charge of the B.B.A. Quantitative Management Technique specialization, HEC Montréal

Claudio Contardo

Reviewer for the following journals: *Transportation Science*, *European Journal of Operational Research*, *Computers & Operations Research*, *Networks*, *European Journal of Industrial Engineering*, *Discrete Applied Mathematics*, *Annals of Operations Research*, *INFOR*, *Operations Research*, *Mathematical Programming Computation*

Jean-François Cordeau

Chairholder, Canada Research Chair in Logistics and Transportation

Member of INFORMS

Associate editor of *IIE Transactions*, *INFOR*, *Transportation Science*

Member of the editorial board of *Computers & Operations Research*

Member of the advisory board of *International Journal of Automation and Logistics*

In charge of the MSc in International Logistics, HEC Montréal

Javier de Frutos

Chair, Mathematics Department, Universidad de Valladolid, Spain

Erick Delage

Chairholder of the Canada Research Chair in Decision Making Under Uncertainty

Director of LACED

Member of INFORMS, MOS and CORS

Associate editor of Springer *Computational Management Science*, *Management Science* and *Pacific Journal of Optimization*

Guest editor for a special issue on robust optimization in *Computational Management Science*, Springer

Reviewer for the following journals: *Mathematics of Operations Research*, *INFOR*, *Journal of Global Optimization*, *Four Operations Research*, *Mathematical Programming*

Michel Denault

In charge of the MSc Financial Engineering specialization, HEC Montréal

Member of the organizing committee for the election of the GERAD director, December 2014 to March 2015

LACED member

Reviewer for the following journals: *Applied Energy* and *Computers and Operations Research*

Guy Desaulniers

Sabbatical leave from June 15, 2013, to June 14, 2014

GERAD Director since May 1, 2015

Member of the academic council, Polytechnique Montréal

INFORMS member

Reviewer for the following journals: *Transportation Science*, *Computers & Operations Research*, *European Journal of Operational Research*, *Networks*, *Operations Research*, *Journal of Heuristics*, *Journal of Scheduling*, *International Transactions of Operations Research*, *Annals of Operations Research*, *Computers and Industrial Engineering*, *International Journal of Flexible Manufacturing Systems*, *INFOR*, *Naval Research Logistics*

Jacques Desrosiers

Sabbatical leave from June 1 to December 31, 2014

Research stays:

- June 17–20, 2014: University of Limoges, France

- October 05–10, 2014: University Paris 13, France

- October 14–21, 2014: Johannes Gutenberg University, Mainz, Germany

Member of the Royal Society of Canada

Reviewer for the following journals: *European Journal of Operational Research*, *INFORMS Journal of Computing*

Roussos Dimitrakopoulos

Chairholder, Canada Research Chair in Sustainable Mineral Resource Development and Optimization Under Uncertainty

Director and founder of COSMO—Stochastic Mine Planning Laboratory, McGill University

Editor-in-chief, *Mathematical Geosciences*, Springer

Executive Expert Advisory Board member, Horizon 2020 Project: Real-Time Mining Consortium

Associate member, Centre for Intelligent Machines, McGill University

Member, Society of Mining Professors, the Netherlands

Member of the editorial board of *Journal of Mining Science*, *Journal of the South African Institute of Mining & Metallurgy*, *International Journal of Mining Science and Technology*, *Mining Technology*

Member of these professional societies: Canadian Institute of Mining, Metallurgy and Petroleum, AusIMM, IAMG, INFORMS, SPE, SME, SAIMM and iEMSs

Pierre Duchesne

Professor in charge of the graduate program in statistics, Université de Montréal, Canada

Associate editor of *Computational Statistics and Data Analysis* and *The Canadian Journal of Statistics*

Debbie Dupuis

In charge of the PhD Quantitative Methods specialization, HEC Montréal

Member of the standing committee on MSc grants, HEC Montréal

External expert with the commission reviewing nominations for the positions of assistant professor with tenure track, or associate or regular professor, for the Institut de Recherche en Statistique, of the Economics and Management Faculty, Geneva University, September–February 2015

Reviewer for the following journals: *Journal of Business and Economic Statistics*, *Journal of Climate Environments*, *Canadian Journal of Statistics*, *Journal of Statistical Computation and Simulation*, *Extremes*

Issmail El Hallaoui

Member of the GERAD's scholarship selection committee

Evaluation of NSERC grant applications

Member of the FRQNT evaluation committee for the new researchers program

Reviewer for the following journals: *European Journal of Operational Research*, *Transportation Science*, *EURO Journal on Transportation and Logistics*, *International Transactions on Operations Research*

Marc Fredette

Associate editor for *Statistical Modelling*

In charge of the Microprogram on user experience in a business context

In charge of the short graduate program in User Experience, HEC Montréal

In charge of the Statistics Consulting Centre for the professors of HEC Montréal

Chairman of the selection committee for the MSc, PhD and postdoctoral scholarships at the FRQNT (statistics)

Member of the executive committee of Tech3lab

Jean-François Frigon

Member of the Advanced Research Centre in Microwaves and Space Electronics (POLY-GRAMES)

Member of the IOQ, IEEE, IEEE Communications Society and IEEE Vehicular Technology Society

Member of the Centre of Research in Radiofrequency Electronics (CREER)

External evaluator for the following granting agencies: NSERC, Hong Kong Grants Council, MDEIE and PROMPT Quebec

Reviewer for the following journals: *IEEE Communications Letters*, *IEEE Transactions on Vehicular Technology*, *IEEE Transactions on Wireless Communications*, *IEEE Journal on Selected Areas in Communications*, *IEEE Transactions on Communication*, *IEEE Proceedings Communications*, *IET Communications*, *IEEE Communications Magazine*, *Eurasip Journal on Wireless Communications and Networking*

Michel Gamache

Member of the Polytechnique Montréal selection committee for the NSERC graduate scholarship program

Member of IOQ, INFORMS, Canadian Institute of Mining and CORS

Associate editor, *Optimization and Engineering*

Industry consulting with the National Research Council of Canada

Reviewer for the following journals: *European Journal of Operational Research*, *Transportation Science*, *Annals of OR*, *Discrete Applied Mathematics*, *Journal of Operations Research Society*, *Canadian Journal of Geotechnical Engineering*, *4OR-A Quarterly Journal of Operations Research*, *Mining Technology*, *INFORMS Journal on Computing*, *International Journal of Mining and Mineral Engineering*, *Computers & Operations Research*, *International Journal of Production Economics*, *Optimization and Engineering*

Geneviève Gauthier

Director of the Department of Decision Sciences, HEC Montréal

Departmental representative at ISM

CIRANO researcher

Member of the academic council, HEC Montréal

HEC Montréal representative at IVADO

Member of the recruiting committee for two full-time lecturers and a professor, HEC Montréal

Christian Genest

Chairholder, Canada Research Chair in Stochastic Dependence Modeling

Director of the Institut des sciences mathématiques du Québec

Regional Associate Director of CANSSI

Director of the Statistics Laboratory of the CRM

Chair, nominations committee, Institute of Mathematical Statistics (IMS)

Member of the accreditation appeals committee, Statistical Society of Canada

Chair of the new researcher grants selection committee, mathematics, logistics and operations research section, FRQNT

Associate editor for the following journals: *Accromath*, *International Statistical Review*, *Journal of Multivariate Analysis*, *La revue de Modulad* and *Statistique et enseignement*

Consulting Editor for Springer's French-language book series on statistics

Member of the Statistical Society of Canada

Member, CRM board of directors

Member of the local scientific committee, CRM

Referee for a number of journals

PUBLIC EXTENSION ACTIVITIES

Public lectures at the Club mathématique de l'Université de Montréal (2015-01-14) and Collège André-Grasset (2015-01-28)

Luc-Alain Giraldeau

Dean of Research at the Faculty of Science, Université du Québec à Montréal, Canada

Co-president of the evolution and ecology evaluation group (EG1503), NSERC

Regular member of Québec Centre for Biodiversity Science, McGill University

Editorial committee member for *Philosophical Transactions of The Royal Society of London, Series B*

Guest editor of a special issue in honor of Jerry Hogan, *Behavioural Processes*

INTERVIEWS

"Homo sapiens giganticus?", *Les années lumière*, Première chaîne, Radio-Canada, April 19, 2015

"Le viol chez les animaux", *Les années lumière*, Première chaîne, Radio-Canada, March 22, 2015

"Camille et Carly (pigeon)", *Loin d'être bête*, Radio-Canada Television, January 24, 2015

"In the battle for fitness, being smart doesn't always pay", with Elizabeth Pennisi for Science, 345(6197), 609–610, August 8, 2015

"Fallen Angels", with Jude Isabella pour *Canadian Wildlife*, July 1, 2014

"Les manchots empereurs et les nouveaux mâles", *La nature selon Boucar*, with Boucar Diouf, Première chaîne, Radio-Canada, June 7, 2014

André Girard

Honorary professor at INRS, Centre Énergie Matériaux Télécommunications

Adjunct Professor, Department of Electrical Engineering, Polytechnique Montréal

Referee for the following journals: *Telecommunication Systems*; *IEEE/ACM Transaction on Networking*; and for NATEQ and NSERC research grants

Jean-Louis Goffin

Editorial board member of *Computational Optimization and Applications*

Mehmet Gumus

Academic director of the MSRC, McGill University

Desautels Faculty Scholar

Area coordinator for operations management, McGill University

CORS, INFORMS, POMS and CIPSS member

The CORS diploma coordinator for McGill University

Reviewer for the NSERC

Referee for the following journals: *Management Science*, *Operations Research*, *Manufacturing & Service Operations Management*, *Production and Operations Management*, *Marketing Science*, *IIE Transactions*, *Naval Research Logistics*, *Journal of Operational Research Society*, *International Transactions in Operational Research*, *OMEGA*, *Transportation Research Part C*, *Management Information Systems (MIS) Quarterly*, *Decision Sciences*, *Mathematical and Computer Modelling*

Interview in Insurance Business: "Industry Reacts to Vote to Renew US Terrorism Insurance Act," January 9, 2015

Pierre Hansen

Chairholder of the Data Mining Chair, HEC Montréal

Member of the editorial committees for the following journals: *The Open Operational Research Journal*; *Journal of Classification*; *Computer Science and Information Systems*; *International Game Theory Review*; *Journal of Heuristics*; *YUJOR*; *RAIRO—Operations Research*, *Annals of Operations Research*; *Discrete Applied Mathematics*

Alain Haurie

Director and co-founder of ORDECSYS

Honorary Professor (Emeritus), University of Geneva, Switzerland

Associate editor for *Environmental Modeling and Assessment*; *Journal of Economic Dynamics and Control*; *Discrete Event Dynamic Systems: Theory and Applications*; *Annals of the International Society of Dynamic Games*; *International Game Theory Review*; *International Management*

Fellow of the Royal Society of Canada and of the Academies of Arts, Humanities and Sciences of Canada

Alain Hertz

Member of the editorial board of the *Journal of Heuristics*; *RAIRO—Operations Research*; and *YUJOR*

Coordinator of the graduate studies in mathematics program Polytechnique Montréal

Member of the executive committee for the European Chapter on Combinatorial Optimization

INTERNATIONAL COLLABORATION

Collaboration with Professors Marie-Christine Costa, ENSTA-Paritech, and Cédric Bentz, CNAM, France

Collaboration with Professor Hadrien Mélot, Université de Mons, Belgium

Collaboration with Professor Dominique de Werra, EPFL, Switzerland

Collaboration with Professor Bernard Ries, Université du Luxembourg, Luxembourg

Minyi Huang

Associate editor for *Systems and Control Letters* and *IMA Journal of Mathematical Control and Information*

Raf Jans

Departmental representative to the local PhD committee, HEC Montréal

Member of CORS and INFORMS

Board member of the EURO Working Group on Lot Sizing

Referee for the following journals: *European Journal of Operational Research*, *International Journal of Production Economics*, *International Journal of Production Research*, *JORS*, *Optimization Letters*, *Naval Research Logistics*, *Journal of Scheduling*, *Flexible Services and Manufacturing*, *IIE Transactions*, *Computers and Industrial Engineering*, *APJOR*, *OR Spectrum*, *IJPOM*, *MSOM*, *INFOR*, *Omega*, *Computational Optimization and Applications*, *INFORMS Journal on Computing*, *Transportation Science and Networks*

Brigitte Jaumard

Chairholder of the Concordia University Research Chair (Tier I) on Optimization of Communication Networks

Member of and Concordia University representative to CEP of the CREPUQ

Referee for the following journals: *Discrete Applied Mathematics*, *Mathematical Programming*, *IIE Transactions*, *Management Sciences*, *Operations Research*, *Journal of Lightwave Technology*

Michael Kokkolaras

Member of the organizing committee for the election of the GERAD director, December 2014 to March 2015

Member of the student exchanges and study abroad committee (Faculty of Engineering), McGill University

Chair of the steering committee of the McGill Institute for Aerospace Engineering, McGill University

Member of the Program Committee, NSERC CREATE in Competitive Manufacturing for the Aerospace Industry: Technology and Design

Expert witness in pending litigation for Mitchell and Gattuso Attorneys at Law, Montréal, Canada

Member of the AIAA multidisciplinary design optimization technical committee and the ASME design engineering division design automation executive committee

Associate editor of *ASME Journal of Mechanical Design*, *Optimization and Engineering*, and *Transactions of the CSME*

Member of the editorial board of the *International Journal of Reliability and Safety*

Guest editor for a special issue of *Optimization and Engineering*, 2014

Referee for the following journals: *AIAA Journal*, *AIAA Journal of Aircraft*, *Artificial Intelligence for Engineering Design, Analysis and Manufacturing*, *Computer-Aided Design*, *Engineering Optimization*, *IEEE Transactions on Neural Networks*, *IIE Transactions*, *International Journal for Numerical Methods in Engineering*, *International Journal of Production Economics*, *International Journal of Reliability and Safety*, *International Journal of Vehicle Design*, *Journal of Aerospace Engineering*, *Journal of Engineering Manufacture*, *Journal of Manufacturing Systems*, *Mechanics Based Design of Structures and Machines*, *Optimization and Engineering*, *Probabilistic Engineering Mechanics*, *SIAM Journal on Optimization*, *Structural and Multidisciplinary Optimization*, *Structural Safety*, *ASME Journal of Dynamic Systems, Measurement and Control*, *ASME Journal of Engineering for Gas Turbines and Power*, *ASME Journal of Mechanical Design*, *Transactions of the Canadian Society for Mechanical Engineering*

Chantal Labbé

Sabbatical leave from June 1, 2014, to May 31, 2015

Associate editor for the journal *Applied Mathematics and Computation*

Referee for Insurance: *Mathematics and Economics* and *Applied Mathematics*

Member of the FQRNT evaluation committee for the establishment of new researchers program

Maryse Labriet

Director, Eneris Environment Energy Consultants S.L., Spain

Editorial board member of *Environmental Modelling & Assessment Journal*

Guest energy expert at the El Cano Institute, Madrid, Spain

Expert member of the Energy Technology System Analysis Program (IEA-ETSAP, International Energy Agency)

Peer-review of scientific papers for: *Energy Policy*, *INFOR*, *Climate Policy*, *Environmental Modeling and Assessment*, *Climatic Change*, *Energy Economics*, *Computational Management Science*, *International Journal of Climate Change Strategies and Management*, *Local Environment*

Gilbert Laporte

Chairholder of the Canada Research Chair in Distribution Management

Adjunct professor, University of Alberta, Canada

Adjunct professor, Bilkent University, Turkey

Adjunct professor, Molde University College, Norway

Invited professor, University of Science and Technology of China, China

Visiting professor, University of Southampton, United Kingdom

Representative of the Professors' Assembly to the committee on chairs and professorships

Member of the Royal Society of Canada

Member of the scientific committee and the board of directors, CIRRELT

Member of the scientific directions committee, HEC Montréal–University of Liège, Belgium

Member of the scientific steering committee of CISIT (International Campus on Safety and Intermodality in Transportation), France

Associate editor or member of the editorial committee for the following journals: *Operations Research*, *Networks*, *Transportation Science*, *Journal of the Operational Research Society*, *Naval Research Logistics*, *Computers & Operational Research*, *European Journal of Operational Research*, *EURO Journal of Transportation and Logistics*, *TOP*, *INFOR*, *Pesquisa Operacional*, *Industrial Engineering & Management Systems*, *Scientia Iranica*, *European Journal of Industrial Engineering*, *International Journal of Shipping and Transport Logistics*, *Journal of Applied Operational Research*, *International Journal of Advanced Operations Management*, *Surveys in ORMS*, *International Journal of Applied Industrial Engineering*, *Journal of Advances in Management Research*, *Operations Research Perspectives*, *Decision Analytics*

Denis Larocque

In charge of the MSc Business Intelligence specialization, HEC Montréal

In charge of the Microprogram on data mining and business intelligence

Chairman of the awards committee for *The Canadian Journal of Statistics*

Member of the Statistical Society of Canada

Member of the ASA Section on Nonparametric Statistics and Section on Statistical Learning and Data Mining

Member of the editorial committee for *The Canadian Journal of Statistics* and the *International Journal of Statistics and Systems*

Fabrice Larribe

Director of the undergraduate programs in mathematics and statistics, UQÀM, Montréal, Canada

Charter member of the EMoSTA team, UQÀM

Referee for the following journals: *Chronic Disease in Canada*, *Statistical Science*, *Statistica Sinica*, *PLoS ONE*, and *IEEE/ACM Transactions on Computational Biology and Bioinformatics*

Member of the CRM statistical laboratory

Lecture on the popularization of science at Collège de Rosemont, November 4 and 26, 2014

Pierre L'Écuyer

Chairholder of the Canada Research Chair in Stochastic Simulation and Optimization

Chairholder of the Inria International Chair, France

Visiting researcher at the INRIA research center, Rennes, France, March to July 2014

Member of INFORMS

Steering committee member for the IMACS Seminar on Monte Carlo Methods

Steering committee member for the International Conference on Monte Carlo and Quasi–Monte Carlo Methods in Scientific Computing

Member of the selection committee for the INFORMS Simulation Society Outstanding Publication Award

Member of the selection committee for the INFORMS Simulation Society Distinguished Service Award

Registered in Who's Who in Canada

Associate editor of *Statistics and Computing*; *ACM Transactions on Mathematical Software*; *Cryptography and Communications—Discrete Structures, Boolean Functions and Sequences*; *International Transactions in Operational Research*

Referee for 141 scientific journals over the last 30 years

Research grant evaluator for NSERC; Mitacs; the Canada Research Chairs Program; Canada Council for the Arts (Killam Grant); Fonds québécois de recherche en nature et technologie; National Science Foundation (USA); Agence nationale de la recherche (France); Institut national de recherche en informatique et automatique (France); Brittany Region (France); K.U. Leuven (Belgium); and the Netherlands Organization for Scientific Research

Sébastien Le Digabel

Member of SIAM, OIQ and MOS

Collaborations with IREQ

Referee for several journals

Jérôme Le Ny

Software Engineer, Robert Bosch GmbH, Saint-Ouen, France

Co-director of the Mobile Robotics and Autonomous Systems Laboratory, Polytechnique Montréal

Member of IEEE, Control Systems Society, Robotics and Automation Society

Senior Member of AIAA

Member of SIAM, Activity Group on Control and Systems Theory

Shanling Li

Editorial review board member for *Production and Operations Management (POM)*

Chair, Supply Chain Management, Continuing Education Committee, McGill University, Canada

Associate editor for the *International Journal of Information Technology and Decision Making*; *International Journal of Business and Systems Research (IJBSR)*; *Mathematical Problems in Engineering*; and *Socio-Science Economic Journal*

Member of these professional societies: CORS, INFORMS, POM, Women in OR

Member of the PhD committee, McGill University

Member of the MBA redesign task force, Desautels Faculty of Management, McGill University

Member of the university continuing education committee, McGill University

Referee for the following journals: *Management Science*, *Operations Research*, *Manufacturing & Service Operations Management*, *Production and Operations Management*, *IIE Transactions*, *Naval Research Logistics*, *European Journal of Operational Research*, *International Journal of Production Economics*, *Annals of Operation Research*, *INFOR*, *Operations Research Letters*, *IEEE Transactions on Engineering Management*, *Energy Systems and Policy*, *Journal of Operational Research Society*, *Computers and Operations Research*, *Socio-Economic Planning Sciences*, *International Journal of Information Technology and Decision Making*, *International Journal of Flexible Manufacturing Systems*, *International Transaction on Operational Research*, *International Journal of Quality & Reliability Management*, *Mathematical and Computational Modeling*, *Journal of Intelligent Manufacturing*, *OMEGA*, *Production Planning & Control* and for the NSERC

Brenda MacGibbon

Fellow of the IMS, USA

Member of the committee on quality and risk management, MUHC

Member of the executive committee of the Health Technology Assessment Unit, MUHC

Patient representative member of the committee on quality of the geriatric care department, MUHC

Patient representative for the Patient Engagement Project/TCAB (Transforming Care at the Bedside)

Community member, research ethics board of the Montreal Neurological Hospital and Institute

Member of the Royal Victoria Hospital patient committee

Member of the MUHC technology assessment unit

Patient representative member of the cancer care quality committee, MUHC

Chair of the Royal Victoria Hospital patients' committee

Referee for the following journals: *South African Statistical Journal*, *Statistics*, *Statistics and Probability Letters* and *Journal of Statistical Research*

Aditya Mahajan

Associate editor of the conference editorial board for *IEEE Control Systems Society*

Member of CIM, TISED, REPARTI

Senior member, IEEE (Institute of Electrical and Electronics Engineers)

Member of the SIAM (Society for Industrial and Applied Mathematics); IEEE Information Theory Society; the IEEE Control Systems Society; and the SIAM Activity Group on Control and Systems

Member of the faculty nominations committee, the ECE undergraduate advising committee and the ECE TA allocation committee at McGill University, Canada

Reviewer of a research grant for NSERC

Referee for the following journals: *IEEE Transactions on Information Theory*, *IEEE Transactions on Automatic Control*, *IEEE Signal Processing Letters*, *IEEE Transactions on Power Systems*, *IEEE Transactions on Networks*, *SIAM Journal of Control and Optimization*, *Springer Annals of Operations Research*

Roland P. Malhamé

Member of the IEEE

Member of the organizing committee for the election of the GERAD director, December 2014 to March 2015

Referee for the following journals: *IEEE Transactions on Automatic Control*, *International Journal of Production Research*, *IEEE Control and Decision Conference Proceedings*, *IEEE Control and Decision Conference Proceedings*

Associate editor for *International Transactions in Operational Research*

Odile Marcotte

Deputy Director of the CRM

Member of the organizing committee for the election of the GERAD director, December 2014 to March 2015

Guiomar Marín-Herrán

Vice-rector, Department of Economics, Universidad de Valladolid, Spain

Member of ISDG, IFAC, SEMA, AERNA, EAERE

Associate editor for the *Journal of Applied Mathematics and Dynamic Games and Applications*

Nenad Mladenović

Member of the Academia Europaea

Member of the Serbian Scientific Society

President of the Yugoslav Society of Industrial and Applied Mathematics

Reviewer of NSERC grants

Member of the advisory editorial board for Elsevier journals

Reviewer for Mathematical Reviews (AMS)

Member of the editorial board of the following journals: *International Journal of Metaheuristics*; *International Journal of Mathematics in Operational Research*; *Romai Journal*; *Computers and Operations Research*; *Computer Science and Information Systems*; *Yugoslav Journal of Operations Research*; *IeJEMTA*; *TOP: An Official Journal of the Spanish Society of Statistics and Operations Research*; *EURO Journal on Computational Optimization*; *Journal on Optimization*

Reviewer for several international journals such as *Mathematical Programming*, *INFORMS Journal on Computing*, *European Journal of Operational Research*, *JOGO*, *Computers & Operations Research*, *JOH*, *OR Spectrum*, *Journal of the Operational Research Society*, *Discrete Applied Mathematics*, etc.

Dominique Orban

Member of the COIN-OR Foundation Inc.

Technical editor for *Mathematical Programming Computation*

Associate editor for the *SIAM Journal on Matrix Analysis and Applications* and *Operations Research Letters*

Referee for the *SIAM Journal on Optimization*, *SIAM Journal on Matrix Analysis and Applications* and *Mathematical Programming*

Vahid Partovi Nia

Member of the Statistical Society of Canada

Member of the Iranian Statistical Society

Michel Perrier

University partner, System and Control Division, Pulp and Paper Research Institute of Canada (PAPRICAN)

Member of the OIQ

Member of the CRIP-Biorefinery

Member of the Canadian Academy of Engineering

Member of the PhD grant committee, FRQNT

Member of the selection committee for the award for excellence in teaching, École de technologie supérieure

Secretary and treasurer, IFAC Canada

Referee for the following journals: *AICHE J.*, *Automatica*, *Journal of Process Control*, *Biotechnology and Bioengineering*, *Biotechnology Progress*, *Chemical Engineering Science*, *Industrial and Engineering Chemistry Research*, *IEEE Transactions on Automatic Control*, *International Journal of Robust and Nonlinear Control*, *International Journal of Control*

Sylvain Perron

Reviewer for *International Transactions in Operational Research*

In charge of the MSc Business Analytics specialization, HEC Montréal

Member of CORS

Local official degree program of CORS

Chairman, Montréal-Concordia lacrosse association

Member of the committee of the Institute for Operational Research and Data Sciences

Jean-François Plante

President of the public relations committee and of the publications committee, the Statistical Society of Canada

Member of the ISM scholarship committee

IVADO statistics representative

Responsible for the translation of *The Canadian Journal of Statistics*

In charge of public relations (executive member), Statistical Society of Canada

Director of communications and webmaster, Association des statisticiens

et statisticiens du Québec

Webmaster for the Association des statisticiennes et statisticiens du Québec (term ended in December 2014)

Member of the following societies or organizations: Statistical Society of Canada, American Statistical Association, Institute of Mathematical Statistics, Association des statisticiennes et statisticiens du Québec, Statistical Society of Montréal, INFORMS

Associate editor for *Liaison* (Statistical Society of Canada)

Reviewer for *The Canadian Journal of Statistics and Environmental Modeling and Assessment*

Saibal Ray

Desautels Faculty Scholar (Endowed Chair)

Associate Dean, Research and International Relations, McGill University

Director of the Master's program in manufacturing management, Desautels Faculty of Management

Director of the Global Manufacturing and Supply Chain Management (GMSCM) Program, Hangzhou, China

Director of the Centre for the Convergence of Health and Economics and the Program for International Competitiveness, McGill University

Guest co-editor for a special issue of *Production and Operations Management Journal* on global supply risk management

Senior editor for *Production and Operations Management*

Associate editor for *IIE Transactions, Manufacturing & Service Operations Management, Operations and Supply Chain Management Journal*

Referee for *Management Science, Operations Research, Manufacturing & Service Operations Management, IIE Transactions, EJOR, Naval Research Logistics, INFOR, Production and Operations Management, International Journal of Production Economics, Marketing Science, Quantitative Marketing and Economics, OMEGA* and for NSERC, the Research Grant Council (RGC) of Hong Kong and SSHRC

Member of INFORMS and POMS

Djamal Rebaine

Visiting Professor at the Centre de Recherche en Informatique de Lens, Université d'Artois, with Professor Lakhdar Sais' team, October 2014

Member of the IT research group, UQÀC, Canada

Referee for the following journals: *Journal of Scheduling*, *4OR*, *RAIRO*, *Journal Engineering Optimization*, *Journal of Computers & Industrial Engineering*, *Journal of Modelling and Mathematical Algorithms*, *Journal of computers and OR*, *European Journal of Operational Research*, *Journal Discrete Applied Mathematics*

Monia Reikik

Referee for the following journals: *Journal of Scheduling*, *Transportation Science*, *European Journal of Operational Research*, *Transportation Research Part C*, *Journal of the Operational Research Society*, *IEEE Transactions on Evolutionary Computation*

Evaluator for Mitacs Accélération

External collaborator with Kronos Inc.

Member of INFORMS and CORS

Founding member of the CeRCI

Bruno Rémillard

Member of the College of Reviewers for the Canada Research Chairs nominations

External referee for NSERC grant submissions

Member of LRSP and CRM

Member of the following scientific organizations: Canadian Mathematical Society, Econometric Mathematical Society, International Statistical Institute and the Statistical Society of Canada

Referee for the following journals: *Bernoulli*, *Computational Statistics and Data Analysis*, *Journal of Multivariate Analysis*, *Quantitative Finance*

Diane Riopel

Member of the Institutional Affairs Commission, Polytechnique Montréal

Member of the OIQ

Co-holder of the Marianne-Mareschal Chair for the promotion of engineering to women, Polytechnique Montréal

Evaluator for the Agence nationale de la recherche, France; Mitacs Accelerate; and ASAC 2015

Referee for the *International Journal of Production Research* and *Mathematical Problems in Engineering*

Brunilde Sansò

Associate editor of *Telecommunication Systems*

Committee member for Ontario's large research infrastructures

Head of the BROADLAB, Polytechnique Montréal

Responsible for the microprogram in telecommunications, Polytechnique Montréal

Referee for the following journals: *RAIRO*, *Design of Reliable Communication Networks*, *Communication Networks*, *Discrete Mathematics*, *IEEE Transactions on Networking*

Member of OIQ; CIV (Colegio de ingenieros de Venezuela); IEEE (Institute of Electrical and Electronic Engineers); CORS; and ACM (Association of Computer Machines)

External expert for the creation of an IRISA group, France

Gilles Savard

Director of research and innovation, Polytechnique Montréal

President of the research commission, Polytechnique Montréal

Associate editor for *RO*, *Operations Research Letters*, *EURO Journal on Computational Optimization*

Member of the board of directors for CIRANO, CREER, CIRRELT, GRIFE, PROMPT, ACFAS, ADRIQ, BiopSys, TechnoMontréal, CFQCU, MEDTEQ, 3IT and ExPretio Technologies

Member of the ministerial committee setting the mandate of the Electric Transportation Institute

Member of the advisory committee for NSERC-Québec

Member of the research council of the ISAE, Toulouse, France

Member of the Emeritus and Honoris Causa Committee, Polytechnique Montréal

Member of the coordination committee, the directors' council, the academic council, the committee on research, the retirement committee, the priority committee and the professional relations committee, Polytechnique Montréal

Referee for the following journals: *Operations Research*, *ORL*, *SIAM J. on Scientific and Statistical Computing*, *INFOR*, *Journal on Global Optimization*, *JOTA*, *IEEEESMM*, *Management Science*, *IJEP*, *Transportation Sciences*, *EJOR*, *International Journal of Environment and Pollution*, *Optimization and Engineering*, *Canadian Applied Mathematics Quarterly*, *Networks and Spatial Economics*, *CORS*, *RAIRO*, *INFORMS Journal of computing*, *Computational Optimization and Applications*, *Annals of Operations Research*, *Networks*, *International Transactions in Operational Research*, *Naval Research Logistics* and *NSERC*, *FRQNT*, *FNSRS*

Marius, M. Solomon

Associate editor of *Transportation Science*

Member of INFORMS

François Soumis

Chairholder of the Canada Research Chair in Large Transportation Network Optimization

Director of IVADO (Institute for Data Valorization)

Evaluator of NSERC grant requests: Individual, Strategic, Cooperative R&D and Chairs

Member of the research commission, Polytechnique Montréal

In charge of mathematical research for the graduate studies program, Polytechnique Montréal

Referee for the following journals: *Operations Research*, *Management Science*, *European Journal of Operational Research*, *Annals of Operations Research*, *International Transaction in Operational Research*, *INFOR*, *IIE*, *Discrete Applied Mathematics*, *ASAC*, *IFOR*

Sihem Taboubi

Guest professor, Koç University, Turkey

Member of the ISDG

Editorial board member of the *Journal of Business Research*

Committee member for a PhD student grant (Fondation J.A. DeSève)

In charge of the MSc in marketing, HEC Montréal

Marketing tips for NPOs, Tunisentraide, Tunisia

Referee for the *European Journal of Operational Research*, *Applied Mathematical Modelling*, *International Journal of Arts Management*, *Journal of Business Research*, *International Journal of Production Economics*, *International Game Theory Review* and *Computers and Industrial Engineering*

Adrian Vetta

Associate editor for *Discrete Optimization*

Referee for the following journals: *Algorithmica*, *Combinatorica*, *Discrete Applied Mathematics*, *INFORMS Journal on Computing*, *Journal of Algorithms*, *Journal of the ACM*, *Mathematics of Operations Research*, *Networks*, *SIAM Journal of Discrete Mathematics*, *SIAM Journal on Computing*

Referee for NSERC and Mitacs grant applications

Member of the ACM, the AMS and the IEEE

Founder of the inter-departmental Discrete Mathematics Group, McGill University

Jean-Philippe Waaub

GERAD director

Co-director of the E2G team, GERAD

President and co-founder of E3SA Consultants Inc.

Regular member of the ISE, UQÀM

Member of the interdisciplinary studies group on geography and regional environment, Institute of Environmental Sciences,

Member of the steering committee on the future of the Institute of Environmental Sciences, UQÀM

Member of the scientific committee of the journal *Liaison Énergie-Francophonie*

Member of the following scientific and professional organizations: AQEI; IAA; MCDM Worldscan; Groupe de travail européen "Aide multicritère à la décision" (EWG – MCDA); IEA (MARKAL and TIMES); and CORS

Member of the board of trustees and the executive committee of SIFEE

Referee for the following journals: *Canadian Journal of Development Studies*, *Energy Policy*, *International Journal of Multicriteria Decision Making*, *Revue Gouvernance*, *Socio-Economic Planning Sciences*, *Sustainability*, *Vertigo*

François Watier

Member of the GERAD scholarship selection committee

Bilingualism committee member for the Statistical Society of Canada

Member of the executive committee of the Probability Section, Statistical Society of Canada

Member and co-founder of the faculty research group EMoSTa—Équipe de modélisation stochastique appliquée

Referee for the following journals: *Automatica*, *International Transactions in Operational Research*, *IMA Journal of Management Mathematics* and *Journal of Computational and Applied Mathematics*

Georges Zaccour

Chairholder of the HEC Chair in Game Theory and Management

Member of the Royal Society of Canada; the ISDG; the CORS

Editor-in-chief of *Dynamic Games and Applications*

Editorial advisory board member of the *Static & Dynamic Game Theory: Foundations & Applications* series

Associate editor of *Computational Management Science*, *Environmental Modeling & Assessment*, *INFOR*, *International Game Theory Review*, *Journal of African Business*, *Journal of Operations & Logistics*, *Strategic Behavior and the Environment*, *International Transactions on Operational Research* and *Journal of Business Research*

Nicolas Zufferey

Adjunct professor, Université Laval, Québec, Canada

Director of the BSc program in business administration and the MSc in management HEC Geneva, Switzerland

Co-director of the Diploma of Advanced Studies in Management, Procurement, Logistics & Supply, the Diploma of Advanced Studies in Project Management, the Diploma in Advanced Studies in Aviation Management, the Diploma of Advanced Studies in Management Business Administration, Université de Genève, Switzerland

Scientific committee member of the DAS & Bachelor of Science in Business Administration, the Master of Arts in International Trading Commodity, Finance and Shipping, the MBA in Strategic Management, Logistics and Purchasing, the Master of Arts in Standardization, Social Regulation and Sustainable Development, Université de Genève, Switzerland

Referee for the following journals: *Journal of Scheduling*, *Computers & Operations Research*, *Computational Optimization and Applications*, *International Journal of Production Research*, *Annals of Operations Research*

12 – SEMINARS

GERAD Seminars

June 2014

Arthur Charpentier, UQÀM, Canada
Modeling dynamic incentives: Application to basketball

Nicolas Bousquet, Université McGill, Canada
Clique, stable set and chromatic number

Églantine Camby, Université libre de Bruxelles, Belgium
The price of connectivity for vertex cover and dominating set

Sarah Ben Amor, Université d'Ottawa, Canada
Information imperfections in multiple criteria decision aiding: Modeling, processing and robustness concerns

July 2014

Bernardetta Addis, École de Mines de Nancy, France
Giuliana Carello, Politecnico di Milano, Italy
Handling shared protection in telecommunication network optimisation

August 2014

Nicolas Zufferey, Université de Genève, Switzerland
Exact and solution methods for a car sequencing problem

Angelia Nedich, University of Illinois at Urbana-Champaign, USA
Distributed optimization in directed graphs: Push-sum based algorithms

September 2014

Djamal Rebaine, UQÀC, Canada
Ordonnement de tâches en présence d'opérateurs dans un environnement de job shop

Irène Abi-Zeid, Université Laval, Canada
Value-based argumentation for policy decision analysis – Methodology and an exploratory case study of a hydroelectric project in Québec

Zohreh Javanshiri, Ferdowsi University of Mashhad, Iran
Strong competitors for beta and skew-normal distributions

Anissa Frini, UQÀR, Canada
Une approche multicritère multi-périodes de sélection de projets dans une perspective de développement durable

Aleksandr Aravkin, IBM TJ Watson Research Center, USA
Optimization perspective on Kalman filtering and smoothing

October 2014

Mehdi Molkarai, Universitat Pompeu Fabra de Barcelona, Spain
Markov chain Monte Carlo methods for two-dimensional constrained models

November 2014

Diego Galindo Pecin, Polytechnique Montréal, Canada
Improved exact algorithms for the vehicle routing problem

December 2014

Yang Cai, Université McGill, Canada
Algorithmic multi-dimensional mechanism design

Fausto Errico, École de technologie supérieure, Canada
The vehicle routing problem with hard time windows and stochastic service times

Zdravko I. Botev, The University of New South Wales, Australia
Simulation and CDF estimation for truncated multivariate normal and student-t distributions

January 2015

Bruce Shepherd, Université McGill, Canada
Tight bounds for online vector bin packing

Marjolein Veenstra, University of Groningen, the Netherlands
An ALNS for the one-to-one pickup and delivery TSP with handling costs

February 2015

Leandro Callegari Coelho, Université Laval, Canada
An overview of integrated logistics: Inventory and distribution management

Gilles Caporossi, HEC Montréal, Canada
AutoGraphiX-III: A new system for computer aided graph theory

March 2015

Bertrand Mareschal, Université libre de Bruxelles, Belgium
PROMETHEE : une aventure multicritère belgo-québécoise

Sylvain Sardy, Université de Genève, Switzerland
A new selection of the lasso parameter for model selection, with applications in cosmology and cancer research

April 2015

Mohammad Sajjad Ghaemi, Polytechnique Montréal, Canada
Clustering and non-negative matrix factorization

Cédric Bentz, CNAM-CEDRIC, France
Steiner trees with edge capacities

May 2015

Mohammad Jahromi, University of Waterloo, Canada
A theoretical framework for analysis of communication pathways

Michael Rabbat, Université McGill, Canada
Distributed stochastic convex optimization

Damoon Robotian, Polytechnique Montréal, Canada
One and two-dimensional dynamics of a compact interval

Andreas A. Malikopoulos, Urban Dynamics Institute, Oak Ridge National Laboratory, USA
Complex systems in transportation: εϕϱϱϱ

McGill University/GERAD Seminar

June 2014

Efthymios Karangelos, Université de Liège, Belgium
Probabilistic criteria for power system reliability management

GERAD Joint Seminars with:

Fondation HEC Montréal and the Chair in Game Theory and Management

October 2014

Nicolas Klein, Université de Montréal, Canada
The importance of being honest

Sonja Köke, Université de Hambourg, Germany
Learning to cooperate on climate policy facing uncertain damages

Skander Esseghaier, Koç University, Turkey
Should a B2B firm involve all or part of its influential customers in co-designing a new product?

November 2014

Stefan Wrzaczek, Vienna University of Technology, Austria
Choosing health expenditures optimally

Guillaume Deffuant, Irstea – Lisc, France
Approximating viability kernels and capture basins with simplex star surfaces

January 2015

Peter M. Kort, Tilburg University, the Netherlands
Comparative advantages of additive manufacturing

Cees Withagen, VU Amsterdam, the Netherlands
International capital markets, oil producers and the green paradox

Elena Parilina, Saint Petersburg State University, Russia
Coalition structure stability in static and dynamic case

Afzal Siddiqui, University College London, United Kingdom
Are targets for renewable portfolio standards too low? The impact of market structure on energy policy

February 2015

Patrick Saint-Pierre, Université Paris-Dauphine, France
Capture of dynamical targets with obstacles and discrete tychastic uncertainties

Ekaterina Gromova, Saint Petersburg State University, Russia
Cooperation in differential game with coalitional structure

Stefan Behringer, Universität Duisburg-Essen, Germany
Price wars in two-sided markets: The case of the UK quality newspapers

March 2015

Yanchong Karen Zheng, Sloan School of Management, MIT, USA
Trust and information sharing in global supply chains

Chair in Game Theory and Management

October 2014

Alain Haurie, GERAD and ORDECSYS, Switzerland
Computing α -robust equilibria in two integrated assessment models for climate change

Canada Research Chair in Distribution Management

June 2014

Duygu Tas, HEC Montréal, Canada
The traveling salesman problem with time-dependent service times

Canada Research Chair in Discrete Nonlinear Optimization in Engineering and CORS

February 2014

Richard J. Caron, University of Windsor, Canada
A network optimization model for the TDL Group Corp.

Canada Research Chair in Discrete Nonlinear Optimization in Engineering

September 2014

John E. Dennis, Jr., Rice University, USA
Why to study derivative-free algorithms

Navneet Vidyarthi, Université Concordia, Canada
The impact of directed choice on the design of preventive healthcare facility network under congestion

October 2014

Franklin Djeumou Fomeni, GERAD, Canada
The quadratic knapsack problem and related problems

November 2014

Stefan M. Wild, Argonne National Laboratory, USA
Beyond the black box in simulation-based optimization

January 2015

Maureen W. Murage, Cornell University, USA
Application of mathematical programming in assessing the integration of wind power: Case study of Kenya

Steven A. Gabriel, University of Maryland, USA
Discretely-constrained Nash equilibria

February 2015

Antonio J. Conejo, The Ohio State University, USA
Robust transmission expansion planning

Manuel V. C. Vieira, Universidade Nova de Lisboa, Portugal
An improved two-stage optimization-based framework for unequal-areas facility layout

April 2015

Edwin Romeijn, Georgia Institute of Technology, USA
Quantifying the trade-off between IMRT treatment plan quality and delivery efficiency using direct aperture optimization

May 2015

David Fuller, University of Waterloo, Canada
A model of near equilibrium for an electricity pool market with nonconvexities

"Meet a GERAD researcher!" Seminars**February 2015**

Erick Delage, HEC Montréal, Canada
Addressing model ambiguity in the expected utility framework

Amir Ardestani Jaafari, HEC Montréal, Canada
The value of flexibility in robust location-transportation problem

May 2015

Mathieu Boudreault, UQÀM, Canada
Couverture du risque de taux d'intérêt dans les fonds distincts

Jonathan Grégoire, UQÀM, Canada
Le modèle à volatilité stochastique en temps discret dans l'évaluation et la couverture de fonds distincts

Not Ordinary Seminars**September 2014**

Mathilde Peyrega, Polytechnique Montréal, Canada
A short introduction to derivative-free optimization

Lê Nguyễn Hoang, Polytechnique Montréal, Canada
Magie des Maths (2/2) - L'analyse

November 2014

Hélène-Sarah Bécotte-Boutin, Polytechnique Montréal, Canada
The writing process: visualization and data analysis

Romain Montagné, Polytechnique Montréal, Canada
A graph coloring model to maximize the number of communicating mobiles in wireless networks

April 2015

Philippe St-Jean, Polytechnique Montréal, Canada
Ordinateurs quantiques : les défis software et hardware

May 2015

Camille Froger, Polytechnique Montréal, Canada
Mise à jour d'horaires de personnel travaillant sur des quarts

E2G Seminars**June 2014**

Pierre-Olivier Pineau, HEC Montréal, Canada
L'intégration des marchés de l'électricité et les orientations de recherche de la nouvelle Chaire de gestion du secteur de l'énergie

Colloques des sciences mathématiques du Québec**October 2014**

Paul Bourgade, New York University
Universality in random matrix theory

Alex Kontorovich, Rutgers University, USA
Applications of additive combinatorics to homogeneous dynamics

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Kartik Prasanna, University of Michigan, USA
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Nilima Nigam, Simon Fraser University, Canada
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François Bergeron, UQÀM, Canada
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Fang Yao, University of Toronto, Canada
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Thomas Ransford, Université Laval, Canada
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Laure Saint-Raymond, École normale supérieure, France
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Alexei Borodin, MIT, USA
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Farzin Taringoo, The University of Melbourne, Australia
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Yi Ouyang, University of Michigan, USA
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Yang Cai, Université McGill, Canada
Algorithmic Bayesian mechanism design

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Nevroz Sen, Université McGill, Canada
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ACM :	Association for Computing Machinery	MCDM Worldscan :	International Society on Multiple Criteria Decision Making
ACFAS :	Association francophone pour le savoir	MDEIE :	Ministère de l'Économie, des Innovations et des Exportations
ADRIQ :	Association pour le développement de la recherche et de l'innovation du Québec	MEDTEQ :	Consortium de recherche et d'innovation en technologies médicales du Québec
AERNA :	Asociación Hispano-Portuguesa de Economía de los Recursos Naturales y Ambientales	MIT :	Massachusetts Institute of Technology
AIAA :	American Institute of Aeronautics and Astronautics	MITACS :	Mathematics of Information Technology and Complex Systems
AMS :	American Mathematical Society	MOS :	Mathematical Optimization Society
AQEi :	Association québécoise pour l'évaluation d'impacts	MSRC :	Management Science Research Centre
ASA :	American Statistical Association	NSERC :	Natural Sciences and Engineering Research Council of Canada
ASME :	American Society of Mechanical Engineers	OIQ :	Ordre des ingénieurs du Québec
AusIMM :	Australasian Institute of Mining and Metallurgy	POMS :	Production and Operations Management Society
CEP :	Commission d'évaluation des projets de programmes	REPARTI :	Rerouppement pour l'étude des environnements partagés intelligents répartis
CEPSI :	Centre d'études sur la paix et la sécurité internationale	SAIMM :	South African Institute of Mining and Metallurgy
CeRCI :	Centre de recherche sur les communautés intelligentes	SCRO :	Société canadienne de recherche opérationnelle
CFQCU :	Conseil franco-québécois de coopération universitaire	SEMA :	Sociedad Española de Matemática Aplicada
CIM :	Center of Intelligent Machines	SIAM :	Society for Industrial and Applied Mathematics
CIRANO :	Centre interuniversitaire de recherche en analyse des organisations	SIFEE :	Secrétariat international pour l'évaluation environnementale
CORS :	Canadian Operational Research Society	SME :	Society for Mining, Metallurgy and Exploration
CREPUQ :	Conférence des recteurs et des principaux des universités du Québec	SPE :	Society of Petroleum Engineers
CRIP :	Centre de recherche en ingénierie de procédés	TISED :	Trottier Institute for Sustainability in Engineering Design
CRM :	Centre de recherches mathématiques	UQÀC :	Université du Québec à Chicoutimi
CRSNG :	Conseil de recherches en sciences naturelles et en génie du Canada	UQÀM :	Université du Québec à Montréal
CUSM :	Centre universitaire de santé McGill	UQÀR :	Université du Québec à Rimouski
EAERE :	European Association of Environmental and Resource Economists		
EMoSTA :	Équipe de modélisation stochastique appliquée		
ETSAP :	Energy Technology System Analysis Program		
FRQNT :	Fonds de recherche du Québec en nature et technologies		
FRSQ :	Fonds de recherche du Québec - santé		
IAMG :	International Association for Mathematical Geosciences		
IEA :	International Energy Agency		
IEDDEC :	Institut de l'environnement, du développement durable et de l'économie circulaire		
iEMs :	International Environmental Modelling and Software Society		
IFAC :	International Federation of Automatic Control		
IMS :	Institute of Mathematical Statistics		
INCASS :	Institut canadien des sciences statistiques		
INFORMS :	Institute For Operations Research and the Management Sciences		
INRS :	Institut national de la recherche scientifique		
IREQ :	Institut de recherche d'Hydro-Québec		
ISAE :	Institut supérieur de l'aéronautique et de l'espace		
ISDG :	International Society of Dynamic Games		
ISE :	Institut des sciences de l'environnement		
LACED :	Laboratoire de calcul et d'exploitation de données		
LORLAB :	Laboratoire de réseaux à large bande		
LRSP :	Laboratoire de Recherche en Statistique et Probabilités		



GERAD – HEC Montréal
3000, chemin de la Côte-Sainte-Catherine, Montréal QC, CANADA, H3T 2A7
514 340-6053, info@gerad.ca, www.gerad.ca