

CURRICULUM VITÆ

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LANGUAGES: French, English, Spanish, Italian

EDUCATION:

Doctorate (Ph.D.)	Applied Mathematics (Operational Research) École Polytechnique de Montréal, Canada	1988
Master (M.Sc.A.)	Electrical Engineering École Polytechnique de Montréal, Canada	1985
Bachelor	Electrical Engineering University Simon Bolivar, Venezuela	1981
Language courses		
French immersion	Université Laval, Quebec, Canada	1982
English immersion	McGill University, Montreal, Canada	1982

WORK EXPERIENCE:**Teaching and Research**

06/01 – ...	Department of Electrical Engineering École Polytechnique de Montréal, Canada	Full Professor
06/99 – 06/01	Department of Electrical Engineering and Computer Engineering École Polytechnique de Montréal, Canada	Full Professor Section Chief (Telecommunications)
06/97 – 06/99	Department of Mathematics and Industrial Engineering École Polytechnique de Montréal, Canada	Full Professor
07/94 – ...	INRS–Telecommunications	Invited Professor
06/94 – 05/97	Department of Mathematics and Industrial Engineering École Polytechnique de Montréal, Canada	Associate Professor
04/92 – 05/94	Department of Applied Mathematics École Polytechnique de Montréal, Canada	Assistant Professor
07/91 – 03/92	Department of Applied Mathematics École Polytechnique de Montréal, Canada	Researcher
01/90 – 06/91	Department of Applied Mathematics École Polytechnique de Montréal, Canada	Research Associate
12/88 – 06/89	Centre de recherche sur les transports Université de Montréal, Canada	Postdoctorate Researcher
01/90 – 06/91, 01/88 – 09/89, 09/85 – 09/86	Department of Applied Mathematics École Polytechnique de Montréal, Canada	Lecturer
01/87 – 12/87	Department of Applied Mathematics École Polytechnique de Montréal, Canada	Assistant (graduate course)
05/83 – 08/85	Department of Electrical Engineering École Polytechnique de Montréal, Canada	Lecturer

Industrial

01/81 – 09/81	Departamento de Planificación EDELCA, Caracas, Venezuela	Engineer
01/80 – 12/80	LUEGAR CONSULTORES, Consulting firm Caracas, Venezuela	Assistant Engineer

AWARDS AND HONORS:

Best Paper Award for the DRCN 2003 Conference (Design of Reliable Communication Networks), for “A method for the Integrated Design of Reliable GMPLS Networks”, Banff, Alberta.
2nd prize for the 2003 CORS OR Practice Competition, Canadian Operational Research Society, for “Assessing user QoS in a deployed GPRS network”.
IEEE/ASME JRC 1995 1st Prize for *annual best article*.
NSERC – Women Faculty Award, 1992–1995, 1995–1997.
FCAR – Young Researcher Award, 1992–1995.
Finalist of the Université de Montréal for the 1989 *L’Académie des Grands Montréalais* best dissertation award.
A.Q.T.R. 1989 1st prize *Best Research Proposal*.

PROFESSIONAL ASSOCIATION’S MEMBERSHIP:

OIQ (Ordre des Ingénieurs du Québec).
CIV (Colegio de ingenieros de Venezuela).
INFORMS (Institute of Operations Research and Management Science).
CORS (Canadian Operation Research Society).
I.E.E.E. (Institute of Electrical and Electronic Engineers).
A.C.M. (Association of Computer Machines).

PROFESSIONAL CONTRIBUTIONS:**External Committees**

Member of the Academic Council of the International Institute for Telecommunications, 2000–...
Elected Treasurer of INFORMS Telecommunications Section, 1998–2001.
NSERC, Member of the Engineering and Computer Science Grant Committee, 1996–1998.
Elected Council Member of INFORMS Telecommunication Council, 1995–1998.

Internal Committees (École Polytechnique)

Member of the best thesis prize committee.
Responsible of the “Telecommunications” concentration for the Electrical Engineering Program, 2003–...
President of the Graduate Studies Committee, Department of Electrical Engineering, 2002–2003.
Electrical Engineering Representative to the École Polytechnique Research Commission, 2002–2003.
Elected Member of the Academic Council, 1996–1999, 1999–2001.
Program Committee, École Polytechnique de Montréal.
Search Committee and Computer Science Committee, Department of Mathematics and Industrial Engineering, École Polytechnique de Montréal, since 1992.
Member of the “Comité des relations professionnelles de l’Association des professeurs de l’École Polytechnique”.

Congress Organization

Program Chair of the 5th INFORMS Telecommunications Conference, Boca Raton, Florida, March 2000.

President of the Telecommunication Cluster, INFORMS, 1998.

Co-president, Colloquium on Telecommunication Networks Planning, CRT, 1996.

Chairperson, EURO97, CORS 95, TRISTAN II 1994, INFORMS (11 times since 1991).

Chairperson, Optimization Days, Montreal, Canada, 1989-1999.

Chairperson, ORSA/TIMS, Orlando, USA, 1992; San Francisco, USA, 1992; Phoenix, USA, 1993; Boston, USA, 1994; New Orleans, USA, 1995; Atlanta, USA, 1996.

Co-president of the Optimization Days, Montreal, Canada, May 1993 (jointly with A. Langevin).

Organizer of the GERAD seminars, 1991, 1992.

Volunteering

Volunteer for the “Hope and Cope” Program, Montreal Jewish Hospital, to help cancer victims.

Volunteer consultant for the children scientific summer camp “Folie Technique”, École Polytechnique de Montréal.

Editorial Functions

Editor:

Telecommunication Network Planning, Kluwer Academic.

Associate Editor:

IEEE Canadian Review
Telecommunication Systems.

Book Review:

“Broadband: Business Services, Technologies and Strategic Impact” by D. Wright. *INFOR* 33(2), 156–157, May 1995.

Refereeing

ICC 2003 (International Communication Conference), member of the scientific program, 2003.

Design of Reliable Communication Networks, 2003.

Computers and Operations Research, 2003.

Networks, special issue on Telecommunication Applications, 2003.

EJOR, 2003.

INFOR, 1992, 2003.

ICC 2002 Symposium on Optical Networking, member of the technical program committee, 2002.

International Teletraffic Conference, 1999

ETRI Review (Korean Telecommunication Review), 1999.

International Communication Conference, 1999.

INFORMS Telecommunication Conference, 1998.

IFIP Workshop on Traffic Management and Synthesis of ATM Networks, 1998.

Telecommunication Systems Modeling Analysis, Design and Management, 1992–1998.

I.E.E.E. Transactions on Reliability, 1989–1996, 1998.

Operations Research, 1996.

Networks, 1990, 1991, 1996.

ITOR, 1996.

ICC96, 1995.

International Congress of Industrial Engineering of Montreal, Montreal, October 1995.

TAS, Springer-Verlag, 1995.
INFOR, 1992.
W.C.T.R. , Lyon, France, June 1992.
Interfaces, 1990.

Government Agency Review

Member of an NSERC visiting committee to evaluate an Industrial Chair, 2003.
Referee for the Canadian Foundation for Innovation, 2003
Referee for NSERC, 1993, 1997, 2000, 2003.
Referee for FCAR, 1994.

COLLABORATIONS:

Consulting and Industrial Collaborations

N.B. Some collaborations in telecommunication domain are confidential and are not listed.

NORTEL

Ericsson

Rogers AT&T

Royal Bank of Canada

BNR

STCUM

SITA (Société Internationale des Télécommunications Aéronautiques)

Technologies AD OPT Inc.

Work and Research Interests

Technologies

- IP Networks
- Wireless Networks
- Optical Networks

Problems

- Quality of Service/Performance
- Reliability/Survival
- Design/Sizing
- Routing