#### Roch Guérin's Curriculum Vitae

Address:	Washington University in Saint Louis, Dept. Comp. Sci. & Eng.
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#### **Academic Background**

- Ph.D. Electrical Engineering, California Institute of Technology, Pasadena 1986
- M.S. Electrical Engineering, California Institute of Technology, Pasadena 1984
- Diplôme d'Ingénieur, École Natle. Sup. des Télécomm., Paris, France 1983

#### **Current Research Interests**

- Network economy and its impact on technology adoption
- Network robustness and scalability
- Networked applications and peer-to-peer systems
- Routing and traffic engineering in IP networks

#### **Professional Appointments**

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• Harold B. and Adelaide G. Welge Professor	2013-	
Department of Computer Science and Engineering		
Washington University in Saint Louis		
Department Chair	2013-	
Department of Computer Science and Engineering		
Washington University in Saint Louis		
Alfred Fitler Moore Professor of Telecommunications Networks	1998–2013	
Department of Electrical and Systems Engineering		
University of Pennsylvania		
• Founder and CEO and then Chief Scientist	2001-2004	
Ipsum Networks (on leave from U. Pennsylvania)		
Ipsum Networks pioneered the concept of Route Analytics and its use in the next		
generation of performance and service management software for IP networks.		
• Director, Telecommunications and Networking	1999–2001	
Professional Master's Program, University of Pennsylvania		

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• Manager, Network Control and Services 1997-1998 Security and Networking Systems Department IBM T. J. Watson Research Center Responsible for a department working on networking and distributed applications. This included topics such as advanced reservations, policy support for RSVP, QoS routing algorithms and protocols, integrated switch and scheduling designs, etc. Many of the department's contributions were incorporated in commercial IBM routers, i.e., NWays 2210, 2212, and 2216.

• Manager, Broadband Networking Security and Networking Systems Department IBM T. J. Watson Research Center

Led a group of 10+ people carrying out research in the area of design, architecture, and analysis of broadband networks. The group designed and built a QoS capable Router in collaboration with other IBM divisions.

• Manager, Network System Design 1992-1993 IBM High Performance Computing and Communications Department (On assignment from IBM Research)

Supervising a group of researchers investigating new network algorithms and architectures. Technology developed by the group was deployed in the AURORA testbed, and incorporated in IBM's NWays switches.

• Research Staff Member 1990-1991 **IBM High Performance Computing and Communications Department** (On assignment from IBM Research)

Engaged in an architecture and development effort to deploy a leading-edge, integrated, broadband network. The effort involved modeling, design and implementation of network components, and participation in a number of field trials.

• Research Staff Member Communications Dpt., IBM T.J. Watson Research Center

Involved in the design, architecture, and performance evaluation of high-speed switches and networks. Key contributions included the development traffic management capabilities for IBM's new networking architecture. This work was recognized by an IBM Outstanding Innovation Award.

• System Engineer Société AERO, Paris, France

Worked on the design and modeling of a jamming resistant satellite communication system. This involved comparing various modulation and coding schemes for different types of power budgets and jamming strategies.

#### **Awards and Honors**

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• 2010 IEEE INFOCOM Achievement Award for "Pioneering Contributions to the Theory and Practice of QoS in Networks."

1994-1997

1986-1990

1983

and Efficacy of Protection Routing in IP Networks," co-authored with K	•
L. Gao and ZL. Zhang.	-
• IEEE Technical Committee on Computer Communications (TCCC) I	Distinguished
Service Award	2009
• ACM Fellow	2006
• IEEE Fellow	2001
• INFOCOM'2000, Distinguished Program Committee Member	2000
IBM Seventh Invention Achievement Award	1997
IBM Research Division Technical Group Award	1997
For design and development of Integrated Switch Router - Early Vehicl	e
IBM Research Division Outstanding Innovation Award	1994
For major contributions to the traffic management and congestion control	ol capabilities
of the Networking BroadBand Services architecture.	
IBM AS Division Award	1993
For contributions to the architecture of interactive CATV systems.	
IBM AS Division Award	1993
For comparison of shared buffer switch architectures.	
Philip Merlin Memorial Guest Lecturer	1992
Technion, I.I.T., Haifa, Israel	
IBM Research Division Award	1990
For comparison of switching platforms for communications systems.	

• IEEE INFOCOM 2010 Best Paper Award for the paper entitled "On the Feasibility"

#### Advisory Boards, Consulting, and Related Activities

• Member Scientific Advisory Board - SITI, University Lusofona	(2012–)
Member Scientific Advisory Board - Simula Research	(2010–)
• Board member, Iptivia Inc.	(2006–2009)
Member Technical Advisory Board - Samsung Electronics	(2003 - 2004)
Member Scientific Advisory Board - France Telecom	(2001–2006)
• Technical consultant for AT&T (1999-2000), Growth Networks (	acquired by Cisco
Systems, 2000), IBM (1998-1999), Lucent Technologies (1999),	ReefEdge (2001),

Moses & Singer (2007), Iptivia (2005–2008), Thomson Research (2007).
Expert witness working with Kirkland & Ellis, New York, NY (1999); Fish & Richardson, Washington, D.C. (2005–2006, 2008, 2011–2013); Orrick, Menlo Park, CA (2006), Crowell & Moring (2007); Sterne, Kessler, Goldstein & Fox (2010); Holland

#### & Knight (2011).

#### **Professional Activities**

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- TPC member, ACM SIGMETRICS (2014)
- Guest editor, ACM Transactions on Internet Technology Special Issue on Pricing and Incentives in Networks and Systems (2013-2014)
- TPC member W-PIN/NetEcon (2013, 2014)

- Member ACM MobiHoc Best Paper Award selection panel (2012)
- TPC member ACM EC, IEEE ICNP, W-PIN, (2012)
- Member IEEE INFOCOM Life Time Achievement Award selection committee (2011–2012)
- Member IEEE TCCC Outstanding Service Award selection committee (2011–2012)
- Team lead "Network" category, ACM Computing Classification System (CCS) revision project (2011)
- Chair ACM SIGCOMM Test-of-Time Award (2010)
- Chair ACM CoNEXT Steering Committee (2010–2012)
- Editor-in-Chief, IEEE/ACM Transactions on Networking (2009–2013)
- Senior TPC Member ACM SIGCOMM'09
- Area TPC chair IEEE INFOCOM'09
- TPC Member ACM Electronic Commerce'09
- Panelist and external expert for: National Science Foundation multiple times since 1990; Agence Nationale de la Recherche (ANR - French NSF) – 2009–2011; Institut Telecom (Paris, France) – 2009
- TPC member ACM HotMetrics'08 and IMC'08
- Member ACM CoNEXT Steering Committee (2008–2009)
- Technical Program co-Chair, ACM CoNEXT 2007.
- General Chair, ACM SIGCOMM'2005.
- TPC member, ANCS 2005.
- Member, Editorial Board of Foundations and Trends in Networking (2005–).
- Area Editor, ACM Computer Communications Review (2005–2006).
- Member ACM SIGCOMM Technical Advisory Board (2001–2005).
- Technical Program co-Chair, ACM SIGCOMM'2001.
- Participant, NSF ANIR Committee of Visitors, June 2000.
- Guest-Editor for Dec. 2000 IEEE JSAC issue on Internet QoS.
- Editor, Journal of Computer Networks (2000–2001).
- Technical Co-Chair, 1st joint conference of IEEE Com. Soc. and Russian POPOV Society on Internet Technologies and Services (ITS'99).
- Elected Member-at-Large of the Board-of-Governors of the IEEE Communications Society (1999-2002).
- General Co-Chair IWS'99.

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- Editor, ACM Computer Communications Review (1998–2001).
- General Chair, IEEE INFOCOM'98.
- Area Editor, IEEE Communications Surveys (1998–2000).
- Chair, IEEE Technical Committee on Computer Communications (1997-1999).
- Technical Editor, IEEE/ACM Trans. Networking (1994–2000).
- SIGCOMM conference PC member, 1996–2000, 2006.
- TPC member, Global Internet 1996 and 1999.
- TPC member, High Speed Networks 1999.
- INFOCOM conference TPC and Area TPC member, 1995–1997, 2000, 2001.
- Technical Editor, Journal of High-Speed Networks (1994–1996).
- Technical Editor, the IEEE Trans. Commun. (1992–1993).
- Member of the CNRI AURORA Testbed management team (1993–1994).

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• Member of Sigma Xi

#### **Courses Taught**

- Modeling and Performance Evaluation of Interconnected Computer Systems (CSE 538) Spring 2014
   Dept. Comp. Sci. & Eng., Washington University in St. Louis
   Graduate entry level course
- Advanced Networking Protocols (TCOM 502) Spring and Fall 1999, Fall 2000, Fall 2003-2004, Spring 2006-2012
   Dept. Elec. & Sys. Eng., University of Pennsylvania
   Graduate entry level course.
- Introduction to Networking and Protocols (ESE 404/TCOM 500) Fall 2005-2011 Dept. Elec. Eng., University of Pennsylvania Senior level undergraduate and entry level graduate course.
- Networking Fundamentals (TCOM 501) Spring 2000-2001, Spring 2003-2005 Dept. Elec. & Sys. Eng., University of Pennsylvania Graduate entry level course.
- Computer Communication Networks Fall 1993 Dept. Elec. Eng., Columbia University Graduate entry level course.

#### <u>List of Publications</u> [h-index = 50 - Google Scholar]

#### Theses

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- T.2 Doctoral Thesis (1986): Queueing and Traffic in Cellular Radio. (Caltech)
- T.1 Diplôme d'Ingénieur Thesis (1983): Study and Modelling of an Antijam Satellite System. (ENST, Paris)

#### **Book Contributions**

- B.3 "Network Quality-of Service" Book chapter (with H. Schulzrinne) in *The Grid: A Blueprint for the New Computing Infrastructure,* edited by Ian Foster and Carl Kesselman, published by Morgan-Kaufman, August 1998.
- B.2 "plaNET Routing:" Book chapter (with I. Cidon) in *Routing in Communications Networks*, edited by Martha Steenstrup and co-published in 1994 by Manning Publication and Prentice-Hall.
- B.1 "Performance Model of a Shared Medium Packet Switch:" Case Study for *Computer Networks and Systems: Queueing Theory and Performance Evaluation, 2nd Ed.*, by T. G. Robertazzi, Springer Verlag, 1993, pp. 13–18.

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