

Roch H. Glitho, PhD, ing.
Full Professor and Canada Research Chair
Ericsson / ENCQOR-5G Senior Industrial Research Chair
CIISE, Concordia University, Montreal
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World-class computer science and telecommunications expert with a wealth of professional experience in industry and academia; industrial experience includes research, international standards setting (e.g. contributions to ITU-T, ETSI, ANSI, CTIA, 3GPP), project management, product management, systems engineering, software design and firmware design. Academic experience includes research, curricula development, teaching and supervision of graduate students; Research chair; Author/co-author of many papers in high impact venues (More than 5000 citations); Inventor/co-inventor of more than 20 granted patents; Has held several leadership positions in IEEE, including that of Editor-In-Chief of IEEE Communications Magazine (the flagship publication of IEEE Communications Society), Editor-in-Chief of IEEE Communications Surveys & Tutorial (the first electronic- only journal of Communications Society) and IEEE distinguished lecturer.

Current Research Interests

5G and Beyond, Content Delivery Networks (CDNs), Tactile Internet, Internet of Things (IoT), Information and Communication Technologies for Development (ICT4D), Fog computing, Cloud computing, Network Function Virtualization (NFV), Software Defined Networks (SDN)

Professional Experience in Academia

Concordia University, Montreal, Canada: 2010 – Present

Position: Full Professor of Networking and Telecommunications, Concordia University, Montreal, Canada

- Canada Research Chair in End-User Service Engineering for Communications Networks
- Ericsson / ENCQOR-5G Senior Industrial Research Chair in Cloud and Edge Computing for 5G and Beyond

University of Western Cape, Cape Town, South Africa: 2017 - Present

Position: Adjunct Professor, Computer Science department

University of Abomey-Calavi, Republic of Benin: 2004 - Present

Position: Visiting Professor, IMSP, Dangbo

Professional Experience in Industry (1986 – 2009)

Last position: Technical Expert, Ericsson Canada, Montreal (1993 – 2009)

Duties and responsibilities

Technical management of research activities in the area of applications and services platforms for telecommunications networks. The activities were ran in collaboration with academia.

Other positions:

- Senior Specialist, Ericsson Telecom, Stockholm, Sweden (1990 – 1993)
 - Research and Development Engineer, Norsk Data (Now defunct), Oslo, Norway (1986 – 1989)
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Other Pertinent Experience:

- Member of journal advisory boards
 - o IEEE Communications Surveys and Tutorials (2015 - present)
 - A leading IEEE journal – Impact factor in 2020: 23.07
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 - Editor- In-Chief:
 - o IEEE Communications Magazine (2003 – 2005)
 - A leading IEEE Magazine - Impact factor in 2020: 11.52
 - o IEEE Communications Surveys and Tutorials (1998 – 2000)
 - A leading IEEE journal – Impact factor in 2020: 23.07
 - Distinguished lecturer
 - o IEEE Commucations Society (2004 – 2009)
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Publications

Google citation: 5145 (February 14, 2021)

h-index: 33 (February 14, 2021)

<https://scholar.google.com/citations?user=k5KHuS0AAAAJ&hl=en&oi=ao>

A sample of publications from year 2016 to 2020:

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- N Promwonga, M Abu-Lebdeh, S Kianpisheh, F. Belqasmi, R. Glitho, H Elbiaze, N Crespi, O Alfandi, Ensuring Reliability and Low Cost when using a Parallel VNF Processing to Embed Delay-Constrained Slices, *IEEE Transactions on Network and Service Management (TNSM)*, October 2020
 - C Mouradian, S Kianpisheh, M Abu-Lebdeh, F Ebrahimnezhad, N T Jahromi, R Glitho, Application Component Placement in NFV-based Hybrid Cloud/Fog Systems with Mobile Fog Nodes, *Series on Network Softwarization and Enablers, IEEE Journal on Selected Areas in Communications (JSAC)* 37 (5), 1130 – 1143, May 2019
 - C Mouradian, D Naboulsi, S Yangui, R Glitho, M J Morrow, P A Polakos, A Comprehensive Survey on Fog Computing: State-of-the-art and Research Challenges, *IEEE Communications Surveys and Tutorials* Volume 20. Issue 1, Firstquarter, 2018
 - M. Abu-Ledeh, D. Naboulsi, R. Glitho, CW Tchouati, On the Placement of VNF Managers in Large-Scale and Distributed NFV Systems, *IEEE Transactions on Network and Services Manangement (TNSM), Special issue on Advances in Management of Softwarized Networks*, December 2017
 - C. Mouradian, S. Tonmoy, J. Sahoo, M. Abu-Lebdeh, R. Glitho, M. Morrow, P. Polakos, Network Functions Virtualization Architecture for Gateways for Virtualized Wireless Sensor and Actuator Networks, *IEEE Network*, May/June 2016

The full list is available at:

<https://scholar.google.com/citations?user=k5KHuS0AAAAJ&hl=en&oi=ao>

Patents

More than 20 granted patents and several pending applications

A sample of granted patents:

1. R. Dssouli, R. Glitho and C. Fu, Methods For Cluster-Based Multi-party Conferencing in Ad Hoc Networks, Patent No US 7,460, 508 B2, December 2008
2. R. Glitho and C. Gourraud, System and Method for Providing Access to Service Nodes from Entities Disposed in an Integrated Telecommunications Network, Patent No US 6,940,847 B1, September 6, 2005
3. J. Tang, A. White, B. Pagurek and R. Glitho, System and Method of Creating Subscriber Services in an IP Based Telecommunications Networks, Patent No US 6,711,157 B1, March 23, 2004
4. R.H. Glitho and C. Gourraud, System and Method for Providing device Aware Services in an Integrated Telecommunications Network, United States Patent No US 6,687,356 B1, February 3, 2004
5. R.H. Glitho, C. Gourraud and E. Evloguieva, System and Apparatus for Providing Value Added Services (VAS) in an Integrated Telecommunications Network Using Session Initiation Protocol (SIP), Patent No US 6,625,141 B1, September 23, 2003

The full list is available at:

<https://patents.justia.com/inventor/roch-glitho>

EDUCATIONAL BACKGROUND

Doctor of Technology, Teleinformatics, Royal Institute of Technology, Stockholm. Sweden, 2002 (Thesis title: *A Mobile Agent-Based Service Architecture for Internet Telephony*)

Licentiate of Technology, Telecommunications Systems, Royal Institute of Technology, Stockholm, 1996 (Intermediate degree between a Master's and a Doctorate - Thesis title: *Managing SS7 Networks with OSI Systems Management*)

M.Sc., Business Economics, University of Grenoble, France, 1990

M.Sc., Pure Mathematics, University of Geneva, Switzerland, 1985

M.Sc., Computer Science, University of Geneva, Switzerland, 1984

LINGUISTIC SKILLS

Bilingual French/English

Very basic understanding of Swedish
