CURRICULUM VITAE

April 5, 2022

NAME: Hussein T. Mouftah

DATE OF BIRTH: January 4, 1947

MARITAL STATUS: Married, 3 Children and 5 Grandchildren

CITIZENSHIP: Canadian

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DEGREE	INSTITUTION	FIELD	DATE
D.Sc.	Laval Univ., Quebec	Electrical Engineering	1975
M.Sc.	Univ. of Alexandria, Egypt	Computer Engineering	1972
B.Sc.	Univ. of Alexandria, Egypt	Electrical Engineering (Communications Section)	1969

EMPLOYMENT HISTORY

DATES	POSITION	DEPARTMENT	INSTITUTION
2016-23 **2009-16** **2006-09**	**Tier 1 Canada Research** **Chair Distinguished** **University Professor**	**School of Electrical Engineering** **and Computer Science**	**University of Ottawa,** **Ottawa**
2018	Visiting Professor	Electrical & Computer Eng.	American University of Kuwait, Kuwait
2018	Visiting Professor	Electrical & Computer Eng.	American University of Sharja, UAE
2008-12	Adjunct Professor	Prince Sultan Advanced Technologies Research Institute	King Saud University, Riyadh
2002-06	Tier 1 Canada Research Chair Professor	School of Information Technology & Engineering	University of Ottawa, Ottawa
2002-08	Adjunct Professor	Electrical & Computer	Queen's University, Kingston

		Engineering	
2000-01	Consultant (Sabbatical Leave)	Disruptive Network Technology	Nortel Networks, Ottawa
1998–02	Associate Head	Electrical & Computer Engineering	Queen's University, Kingston
1993-94	Consultant (Sabbatical Leave)	Traffic Management & Performance	Bell- NortherResearch,(Nortel Technology), Ottawa
1992-02	Adjunct Professor	SITE (Electrical Engineering)	University of Ottawa, Ottawa
1990	Visiting Expert	Transportation Development Centre	Ministry of Transportation, Montreal
1988-02	Professor	Electrical & Computer Engineering	Queen's University, Kingston
1986-87	Consultant (Sabbatical Leave)	Transport Network Control & Design for Testability	Bell-Northern Research, Ottawa
1985	Associate Professor (Part-time)	Electrical Engineering	Royal Military College of Canada, Kingston
1982-88	Associate Professor	Electrical Engineering	Queen's University, Kingston
1979-82	Assistant Professor	Electrical Engineering	Queen's University, Kingston
1977-79	Member of Scientific	Staff Data Systems Planning	Bell-Northern Research, Ottawa
1976-77	Chief Engineer		Adaptive Microelectronics Limited, Toronto
1976	Senior Digital Systems Engineer	Digital Systems	Adaptive Microelectronics Limited, Toronto
1975-76	Postdoctoral Fellow	Electrical Engineering	University of Toronto, Toronto
1973-75	Teaching and Research Assistant	Electrical Engineering and Information Science	Laval University, Quebec
1969-72	Instructor	Computer Science and Automatic Control	University of Alexandria, Egypt

HONOURS AND AWARDS (Chronologically)

1) Joint Holder of the 2019 Fabio Neri Best Paper Award Runner up, Elsevier Journal of Optical Switching and Networking (Vol. 31, pp. 86-99).

2) Joint Holder of the Ontario Center of Excellence Mind-to-Market Award (September 2017).

3) Recipient of the C. C. Gotlieb Computer Award Medal for Outstanding Canadian Engineers recognized for Important contributions to the field of Computer Engineering and Science, IEEE Canada (May 2017).

4) Joint Holder of the IEEE Communications Society Best Tutorial Paper Award for Paper published in the IEEE Communications Surveys and Tutorials, First Quarter, 2017.

5) Co-Joint Holder of the 2017 Best Paper Award of the IEEE Communications Society Technical Committee Of Communication Modeling and Systems Integration, for a paper published in the IEEE Communications Surveys and Tutorials, First Quarter, 2017.

6) Recipient of the 2016 Outstanding Service Award, IEEE Communications Society Optical Networking Technical Committee (December 2016).

7) Tier 1 Canada Research Chair in Wireless Sensor Networks, School of Electrical Engineering and Computer Science, University of Ottawa, Ottawa, Canada (September 2016).

8) Recipient of the R.A. Fessenden Medal for Outstanding Canadian Engineers recognized for Important Contributions to the field of Telecommunications Engineering, IEEE Canada (May 2016).

9) Co-Recipient of the 2016 Distinguished Technical Achievement Award in Communications Switching and Routing, IEEE Communications Society Communications Switching and Routing Technical Committee (May2016).

10) Joint holder of the Second Best Paper Award for a paper presented at the IEEE 2016 International Conference on Selected Topics in Mobile & Wireless Networking (MoWNet2016), Cairo, Egypt, (April 2016).

11) Recipient of the Outstanding Educator Award, IEEE Ottawa Section (March 2015).

12) Recipient of the K. Y. Lo Medal for Significant Engineering Contributions at the International Level, Engineering Institute of Canada (March 2014).

13) Recipient of the 2014 Technical Achievement Award in Wireless Ad Hoc and Sensor Networks, IEEE Communications Society Technical Committee on Wireless Ad Hoc and Sensor Networks (December 2014).

14) Recipient of the Distinguished Service Award, IEEE Communications Society Communications Switching and Routing Technical Committee (December 2014).

15) Joint holder of the 2 Best Paper Awards: Second Best Poster Award and Third Best Poster Award, and one Honor Mention Poster Award, presented at the 6th Annual WiSense Workshop, University of Ottawa, Canada (August 2014).

16) Distinguished Nominee for the Arab Ambassador's Awards (Scientific), Council of Arab Ambassadors, Ottawa, Canada (2013).

17) Joint holder of the Best Paper Award, for a paper presented at the 8th International Conference on Broadband and Wireless Computing, Communication and Applications (BWCCA2013), Compiegne, France (October 2013).

18) Joint holder of the 2 Best Paper Awards: First Best Poster Award and Third Best Poster Award, both presented at the 5th Annual WiSense Workshop, University of Ottawa, Canada (August 2013).

19) Joint holder of the Second Best Paper Award, for a paper presented at the 2013 IEEE Fifth Annual Green Technologies Conference (GreenTech'2013), Denver, Colorado (April 2013).

20) Joint holder of Second Best Paper Award, and 3 Honour Mention Poster Awards, presented at the 4th Annual WiSense Workshop, University of Ottawa, Canada (September 2012).

21) Recipient of the Distinguished Service Award, IEEE Communications Society Communications Software Technical Committee (June 2012).

22) Joint holder of 2 Best Paper Awards; First Best Poster Award and Third Best Poster Award, both presented at the 3rd Annual WiSense Workshop, University of Ottawa, Canada (September 2011).

23) Joint holder of the Best Paper Award, for a paper presented at the IEEE Electrical Power and Energy Conference (EPEC2010), Halifax, Nova Scotia, Canada (August 2010).

24) Joint holder of the Second Best Paper Award, for a poster presented at the 2nd Annual WiSense Workshop, Queen's University, Kingston, Ontario, Canada (May 2010).

25) Joint holder of the Best Paper Award, for a paper presented at the 4th ACM International Symposium on Intelligent Systems Techniques for Ad Hoc and Wireless Sensor Networks (IST-AWSN'09), Kuala Lumpur, Malaysia (2009).

26) Recipient of the Distinguished Service Award, IEEE Communications Society Ad Hoc and Sensor Networks Technical Committee (2009).

27) Tier 1 Canada Research Chair in Wireless Sensor Networks, School of Information Technology and Engineering, University of Ottawa, Ottawa, Canada (September 2009).

28) Joint holder of the Best Student Paper Award, for a paper presented at the IEEE Canadian Conference on Electrical and Computer Engineering (CCECE2009), St-John's, Newfoundland (May 2009).

29) Elected Fellow of the Royal Society of Canada RSC: The Academy of Sciences (2008).

30) Recipient of the ORION Leadership Award of Merit (2008).

31) Recipient of the 2007-2008 University of Ottawa Award for Excellence in Research (2008).

32) Joint holder of 2 Best Paper Awards for 2 papers presented at the IEEE International Symposium on Computers and Communications (ISCC2008), Marrakech, Morocco (July 2008).

33) Recipient of the Thomas W. Eadie Medal, Royal Society of Canada (2007).

34) Distinguished University Professor, University of Ottawa, SITE (2006).

35) Recipient of the A.G.L. McNaughton Gold Medal for his exemplary contributions to the engineering profession in Canada, IEEE Canada (2006).

36) Recipient of the Julian A. Smith Medal for Achievement in the Development of Canada, Engineering Institute of Canada (2006).

37) Recipient of the Distinguished Service Award, IEEE Communications Society Technical Committee on Communications Systems Integration and Modeling (2006).

38) Elected Fellow Engineering Institute of Canada (2005).

39) Joint holder of the Best Paper Award for a paper presented at the IEEE ICC'2005 symposium on Optical Networking, Seoul, Korea (May 2005).

40) Recipient of Edwin Howard Armstrong Achievement Award, IEEE Communications Society, New York (2004).

41) Recipient of George S. Glinski Award for Excellence in Research, Faculty of Engineering, University of Ottawa (2004).

42) Joint holder of the Best Poster Award for a poster presented at CITO Innovators Showcase, Toronto, Ontario (November 2004).

43) Recipient of the Distinguished Service Award, IEEE Communications Society Technical Committee On Optical Networking (2004).

44) Elected Fellow Canadian Academy of Engineering (2003).

45) Ontario Distinguished Researcher Award, Ontario Innovation Trust (September 2002).

46) Tier 1 Canada Research Chair in Optical Networks, School of Information Technology and Engineering, University of Ottawa, Ottawa, Canada (September 2002).

47) Joint holder of the Best Paper Award for a paper presented at the CSC 2002 Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS'02), San Diego, California, USA (July 2002).

48) Joint holder of the Outstanding Paper Award for a paper presented at the IEEE Workshop on High Performance Switching and Routing (HPSR'2002), Kobe, Japan (May 2002).

49) Recipient of the IEEE Canada W. S. Read Outstanding Service Award (1995).

50) Joint holder of an Honourable Mention for the Frederick W. Ellersick Prize Paper Award for Best Paper in the IEEE Communications Magazine in 1993 (February, pp. 58-65).

51) Elected IEEE Fellow for contributions to Communication Systems Modeling (1990).

52) Holder of the Certificate of Appreciation from the Government of Canada Ministry of Transportation for valuable contributions as Visiting Expert at Transportation Development Centre (1990).

53) Recipient of the 1989 Engineering Medal for Research and Development of the Association of Professional Engineers of Ontario.

54) Joint holder of the Outstanding Paper Award for a paper presented at the IEEE Fourteenth International Symposium on Multiple-Valued Logic (IEEE Computer Society, Proceedings ISMVL-84, pp. 120-124).

55) Senior Industrial Fellowship: From the Natural Science and Engineering Research Council of Canada, to spend the sabbatical year (1993-94 and 1986-87) with Bell-Northern Research of Ottawa.

56) Industrial Postdoctoral Fellowship: From the Natural Science and Engineering Research Council of Canada (1976-77).

57) Postdoctoral Fellowship: From the Ministry of Education of Quebec (1975-76 and its renewal).

58) Scholarships: From the Egyptian Ministry of Higher Education (1964-69).

SCHOLARLY AND PROFESSIONAL ACTIVITIES

2021   Co-guest Editor, Research Topic on Prospects of Energy and Mobility - Connected and Autonomous Electric Vehicles for Sustainable Smart Cities, Smart Grids Speciality Section, Frontiers in Energy Research Journal, Lusanne, Switzerland.

2021   External Reviewer, Research Grants Council (RGC) of Hong Kong, Early Career Scheme, Hong Kong.

2021   External Reviewer, Promotion Review Committee, College of Technological Innovation, Zayed University, United Arab Emirates.

2021   External Reviewer, France-Canada Research Fund (CFRC), Ottawa, Canada,

2021   External Reviewer, Promotion Review Committee, Department of Computer Engineering, King Saud University, Riyadh, Saudi Arabia.

2020   External Reviewer, NSERC Discovery Grant Electrical and Computer Engineering Committee, Canada.

2020   External Reviewer, Promotion Review Committee, Scientific Council, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

2020   External Reviewer, Research Proposal Evaluation, Deanship of Research, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

2020   External Referee, Promotion Assessment, Department of Systems and Computer Engineering, Carleton University, Ottawa.

2019   External Reviewer, NSERC Discovery Grant Electrical and Computer Engineering Committee, Canada.

2019   External Assessor, Professorial Confernment Committee, School of Engineering and Computer Science, University of Hertfordshire, Hatfield, UK.

2019   External Reviewer, Assessment Promotion Committee, Department of Computer Science, University of Cyprus, Nicosia, Cyprus.

2019   External Expert, National Research Foundation (NRF), Research and Innovation Support and Advancement (RISA), Pretoria, South Africa.

2019   External Reviewer, Promotion Review and Tenure Committee, Department od Computer Science and Electrical Engineering, University of Maryland Baltimor County, Baltimore, Maryland, USA.

2019   External Reviewer, Promotion Review Committee, School of Science and Engineering, American University of Cairo, Cairo, Egypt.

2019   External Reviewer, Tier 2 Canada Research Chaire, Department of Computer Science, University of Ontario Institute of Technology, Oshawa, Ontario, Canada.

2019   External Reviewer, Promotion Review Committee, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar.

2018   External Reviewer, Tier 2 Canada Research Chair, Department of Electrical and Computer Engineering, University of Quebec at Montreal (UQAM), Canada.

2018   External Reviewer, Promotion Review Committee, Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, Ontario, Canada.

2018   External Reviewer, Promotion Review Committee, Department of Electrical and Computer Engineering, Lebanese American University, Beirut, Lebanon.

2018   Expert External Reviewer for the European Research Council Executive Agency, ERCEA.B.4 – Physical Sciences and Engineering, Brussels, Belgium.

2018   External Reviewer, Promotion Review Committee, Department of Computer Science, Florida State University, Tallahassee, Florida, USA.

2018-   Associate Editor, Smart Grids Speciality Section, Frontiers in Energy Research Journal, Lusanne, Switzerland.

2018-   Member of the Editorial Advisory Board, Journal of Engineering, Science, and Computing, Islamic University of Medinah, Saudi Arabia.

2017 External Reviewer, Tenure Review Committee, Department of Electrical and Computer Engineering, American University of Beirut, Lebanon.

2017 Member of NSERC Electrical and Computer Engineering Research Tools and Instruments (RTI) Selection Committee.

2017 External Reviewer, Promotion Review Committee, Department of Electrical and Computer Engineering, University of Waterloo, Waterloo, Ontario, Canada.

2017 External Reviewer, Promotion Review Committee, Department of Computer Science and Engineering, University of South Carolina, Columbia, South Carolina, USA.

2017 External Reviewer, Promotion and Tenure Review Committee, Department od Computer Science and Electrical Engineering, University of Maryland Baltimor County, Baltimore, Maryland, USA.

2017 External Reviewer, Promotion Review Committee, Department of Electronic Engineering, City University of Hong Kong, Hong Kong, China.

2017 External Reviewer for the Swiss National Science Foundation (SNSF), Division of Mathematics, Physical and Engineering Sciences, Bern, Switzerland.

2016 External Reviewer, Tenure and Promotion Review Committee, Department of Electronics and Communications Engineering, American University of Cairo, Egypt.

2016 External Reviewer, Promotion and Tenure Committee, Department of Electrical and Computer Engineering, New Jersey Institute of Technology, Newark, New Jersey, USA.

2016 External Reviewer, Promotion Review Committee, Department of Computer Science and Engineering, American University of Sharjah, UAE.

2015- Associate Editor, MDPI Journal of Sensor and Actuator Networks, Basel, Switzerland.

2015 Co-Guest Editor, Hindawi International Journal of Distributed Sensor Networks, Special Issue on Recent Advances of Models and Algorithms in Wireless Networks for Cyber Physical Systems.

2015 External Reviewer, Promotion Review Committee, Department of Electrical and Computer Engineering, University of Massachusetts-Lowell, Massachusetts, USA.

2015 External Reviewer, Tenure and Promotion Review Committee, School of Sciences and Engineering, American University of Cairo, Egypt.

2015 Expert Evaluator, Appointment Committee KTH Royal Institute of Technology, Stockholm, Sweden.

2014- Member of the Editorial Advisory Board, Journal Smart Grid, De Gruyter Open.

2014 External Reviewer, Promotion Committee, Department of Information Technology, Mutah

University, Mutah, Jordan.

2013-	Member of the Editorial Board, Journal of Vehicular Communications, Elsevier.
2013-14	Co-Guest Editor, Elsevier Optical Switching Networks Journal, Special Issue on Reliable Networks Design and Modeling-2013.
2013	External Reviewer, Promotion Committee, Department of Communications Engineering and Informatics, University of Electro-Communications, Tokyo, Japan.
2013	External Reviewer, Promotion and Tenure Committee, Department of Electrical Engineering and Computer Science, University of Kansas, Lawrence, Kansas, USA.
2012-15	Member of NSERC Electrical and Computer Engineering Evaluation Group, Discovery Grants.
2011-	Member of the Academic Advisory Board of Wavefront National Centre of Excellence on Commercialization of Wireless Technology.
2011-15	Member of the Board of Directors, NSERC DIVA Network.
2010-13	Member of CRC Research Branch Technical Panel, Broadband Communications Research Branch, Communication Research Centre, Industry Canada.
2010-	Member of the Advisory Editorial Board, Journal of King Saud University [Engineering Sciences], Riyadh, Saudi Arabia.
2010-	Member of the Editorial Board, Journal of Communications and Network, Scientific Research Publishing, Irvine, California, USA.
2010 2009	External Reviewer, Promotion Review Committee, Department of Electrical and computer Engineering, University of Malaya, Malysia.
2009	External Reviewer, Tenure Review Committee, Department of Computer Science, University of Victoria, Victoria, Canada.
2009	External Reviewer, Science Foundation of Ireland (SFI), Proposal for Phase-II Funding for The Centre for Telecommunication Value Chain Research (CTVR-II).
2008-14	Principal Investigator, Ontario Research Funds - Research Excellence WiSense project.
2008	External Examiner, Promotion Review Committee, Department of Computer Science and Engineering, University of Nebraska, Lincoln, Nebraska, USA.
2008	External Reviewer, Promotion Review Committee, University of Quebec, INRS-Telecommunications, Montreal.
2008	External Reviewer, Tenure and Promotion Review Committee, Department of Computer Science, Iowa State University, Ames, Iowa, USA.
2008	External Review Committee, Promotion Review Committee, KTH Royal Institute of Technology,

Stockholm, Sweden.

2008	External Reviewer, Promotion Review Committee, Faculty of Engineering, Architecture and Science, Ryerson University, Toronto.
2008	External Reviewer, Science Foundation of Ireland (SFI), President of Ireland Young Researcher Award (PIYRA) program.
2007	Member of the Site Visit Review Panel, Science Foundation of Ireland (SFI), for the Centre for Telecommunication Value Chain Research (CTVR), Dublin, Ireland.
2007	External Reviewer, Promotion Review Committee, Department of Electrical and Computer Engineering, George Washington University, Washington, DC, USA.
2007	External Examiner, Promotion Review Committee, School of Computer Science, University of Windsor, Windsor, Ontario.
2007	External Reviewer, Promotion Review Committee, Department of Electrical and computer Engineering, University of Virginia, Charlottesville, Virginia, USA.
2007	External Reviewer, Promotion Review Committee, Department of Computer Science, University of Alberta, Edmonton, Alberta, Canada.
2007-	Member of the Advisory Board, Security and Communication Networks journal, John Wiley and sons Inc.
2007-	Member of the Editorial Board, International Journal of Communication Networks and Distributed Systems (IJCNDS), Inderscience Publishers Ltd, UK.
2006	External Reviewer, Promotion and Tenure Review Committee, Department of Computer Science and Engineering, Southern Methodist University, Dallas, Texas, USA.
2006-	Member of the Editorial Board, Encyclopedia of Wireless and Mobile Communications, CRC Press, Boca Raton, Florida.
2006	External Reviewer, Promotion Review Committee, Department of Electrical and Computer Engineering, University of Sydney, Sydney, Australia.
2006	Co-Guest Editor, IEEE Communications Magazine Special Issue on Interconnect and Fabric Technology Standards, July 2006.
2006-2005	External Reviewer, Promotion and Tenure Review Committee, Department of Electrical and Computer Engineering, Iowa State University, Ames, Iowa, USA.
2005-	Member, College of Reviewers Committee, Leaders Opportunity Funds, Canada Foundation for Innovation.
2005	External Reviewer, Promotion and Tenure Review Committee, Department of Computer Science, University of Illinois at Chicago, Illinois, USA.
2005	Member of the College of Reviewers, Canada Research Chair Program, Nomination from the

University of Moncton, New Brunswick, Canada.

2005   Co-Guest Editor, IEEE Network, Special Issue on 4G Network Technologies for Mobile Telecommunications, September 2005.

2005   Member, National Science Foundation (USA) Review Panel on Research in Networking
2004   Technology and Systems, Division of Computer and Network Systems, Arlington, Virginia, USA, May 2005 and July 2004.

2005   External Reviewer, Tenure Review Committee, The Edward S. Rogers Sr. Department of Electrical and Computer Engineering, University of Toronto, Ontario, Canada.

2004-   Member of the Editorial Advisory Board, The Mediterranean Journal of Computers and Networks, SoftMotor, Sheffield, UK.

2004-   Member of the Editorial Advisory Board, Wireless Communications and Mobile Computing journal, Wiley & Sons, New York.

2004-09   Member of the Editorial Advisory Board, Computer Communications journal, Elsevier.

2004-   Editor, CIC China Communications Magazine.

2004-   Editor, Journal of China Universities of Posts and Telecommunications.

2004   Member of the College of Reviewers, Canada Research Chair Program, Nomination from the University of Waterloo, Ontario, Canada.

2004   External Referee, Promotion review Committee, Department of Electrical and Computer Engineering, Sultan Qaboos University, Muscat, Oman.

2004   External Examiner, Promotion and Tenure Review Committee, Department of Electrical and Computer Engineering, University of Illinois at Chicago, Illinois.

2004   External Examiner, Promotion Review Committee, Department of Information Science and Telecommunications, University of Pittsburgh, Pennsylvania.

2004   External Examiner, Information and Computer Science Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

2004   Co-Guest Editor, IEEE Communications Magazine, Feature Topic on Management of Optical Networks and Services, January 2004.

2003-   External Examiner, University Malaya, Kuala Lumpur, Malaysia.

2003   External Examiner, Promotion and Tenure Review Committee, Department of Electrical and Computer Engineering, New Jersey Institute of Technology, New Jersey.

2002   Member, Visiting Grant Selection Committee, NSERC Industrial Research Chair in Wireless Networks at McMaster University, Hamilton, Ontario.

2002   Member, Visiting Grant Selection Committee, NSERC Industrial Research Chair in Next-Generation Networking Systems, Ecole Polytechnique, Montreal.

2002	Co-Guest Editor, International Journal of communications Systems special issue on "Wireless Access to the Global Internet: Mobile Radio Networks and Satellite Systems", November 2002.
2002	External Examiner, Tenure and Promotion Review Committee, School of Computer Science, University of Oklahoma, Norman, Oklahoma.
2002	External Examiner, Tenure Review Committee, Department of Electrical and Computer Engineering, University of Kansas, Lawrence, Kansas.
2002	External Examiner, Tenure Review Committee, Department of Electrical and Computer Engineering, Iowa State University, Ames, Iowa.
2002	External Examiner, Promotion and Tenure Revue Committee, Department of Computer Science, The American University at Cairo, Egypt.
2002	External Examiner "Rapporteur", Habilitation a Diriger des Recherches, Universite Paris VI, Paris, France.
2001-	Member of the Editorial Board, International Journal of Communication Systems, Wiley & Sons, New York.
2000-2018	Member of the Editorial Board, Journal of Communications and Networks, Korean Institute of Communications Science.
2000-08	Distinguished Speaker, IEEE Communications Society.
2000	External Examiner, University Promotions Committee, College of Engineering, Sultan Qaboos University, Muscat, Oman, December 2000.
2000, 1998 2003	External Examiner, Promotion Review Committee, Department of Electrical Engineering, City City University of New York, New York.
2000	External Examiner, Research Grants Review Committee, Ministry of Higher Education, Government of Italy.
2000	Co-Guest Editor, European Transactions on Telecommunications (ETT) special issue on "Service Quality Control in Multimedia Wireless Networks", July/August 2000.
1999	External Examiner "Rapporteur", Habilitation à Diriger des Recherches, Université de Rennes 1, ENST-Bretagne, Rennes, France.
1998-2003	Project Leader, Communications and Information Technology Ontario (CITO) Centre of Excellence, projects on "Computer Aided Modelling, Analysis and Design (CAMAD) of Broadband Wireless Links and Networks", "Network Control Architecture for IP QoS Management", and "Photonic Packet Switching Networks".
1998-00	Director of Magazines, IEEE Communications Society, New York.
1998-	External Examiner, Research Grants Council of Hong Kong.
1998	External Examiner, Promotion Review Committee, Department of Electrical Engineering, University of Ottawa, Ontario.

1998	Co-Guest Editor, IEEE Journal of Selected Areas in Communications, special issue on "Switching Systems for Broadband Internet and for QoS on Demand".
1998-97, 1995	External Examiner, Promotion and Tenure Review Committee, Department of Electrical Engineering, University of British Columbia.
1997	External Examiner, Tenure Review Committee, Department of Electrical Engineering, City University of New York, New York.
1997	External Examiner, Promotion Review Committee, Department of Computer Science, University of Cyprus, Nicosia, Cyprus.
2000-99, 1997	External Examiner, Promotion and Tenure Review Committee, Department of Computer Science, Hong Kong University of Science and Technology, Hong Kong.
1996	External Examiner, Promotion and Tenure Review Committee, Department of Computing Science, University of Alberta, Edmonton, Alberta.
1996	Guest Editor, International Journal of Computer Systems Science and Engineering Special Issues on "ATM Switching" and "ATM Networks".
1996	External Examiner, Tenure Review Committee, Department of Electrical and Computer Engineering, Northeastern University, Boston.
1996	External Examiner, Tenure and Promotion Review Committee, Department of Electrical and Computer Engineering, University of Waterloo, Ontario.
1996-97	Editor-in-Chief, IEEE Communications Interactive, IEEE Communications Society, New York.
1995-97	Editor-in-Chief, IEEE Communications Magazine, IEEE Communications Society, New York.
1997, 1995 1993, 1990 1989	External Examiner, Promotion Review Committee, Department of Electrical and Computer Engineering, Royal Military College, Kingston, Ontario.
1995	Member, Visiting Grant Selection Committee, NSERC Collaborating Research and Development (CRD) Grant Program, University of Calgary (with U. of Saskatchewan and U. of Alberta).
1995	External Examiner, Promotion Review Committee, Department of Electrical Engineering, Polytechnic University, Brooklyn, New York.
1995	Guest Editor, Canadian Journal of Electrical and Computer Engineering special issue on Planning and Design of Broadband Networks, August.
1995	Chair of the Selection Panel, Ontario Graduate Scholarship Program, Ministry of College and University.
1994	Member of the Visiting Committee, Canadian Engineering Accreditation Board (Laval University, Quebec).

1994, 1993	External Examiner, Promotion Review Committee, Department of Electrical and Computer Engineering, Carnegie Mellon University.
1993-95	IEEE Communications Society Editor for the Multimedia Magazine, IEEE Computer Society, New York.
1992-00	Editor, Journal of Network and Systems Management, Plenum Press.
1992-00	External Examiner, Fonds concerté à l'aide de la recherche (FCAR) research grants on Équipe et séminaire program.
1991-	Reviewer, Grant Programs, National Science Foundation, Division of Networking and Communications Research and Infrastructure, Washington, U.S.A.
1989-98	Project Leader, Telecommunications Research Institute of Ontario (TRIO) Centres of Excellence in Communications, project on "Broadband Packet Switching Networks".
1989-90	Guest Editor, IEEE Journal on Selected Areas in Communications Special Issues on Computer Aided Modelling, Analysis and Design of Communication Networks, December 1990 and January 1991.
1987-95	Technical Editor, IEEE Communications Magazine, IEEE Communications Society, New York.
1986-	Set up a cooperative research program between Queen's University and the University of Helwan, Egypt.
1985	External Examiner, City University of New York Research Foundation.
1982-	External Reviewer, Natural Science and Engineering Research Council of Canada (NSERC) Operating Grant Selection Committee.
1983-	External Examiner, NSERC Strategic Grant Selection Committee.
1981-86	Student Counsellor, IEEE Queen's Computer Chapter at Queen's University.
1979-89	Founder and Technical Advisor, Queen's University Microcomputer Club.

UNIVERSITY COMMITTEE SERVICES (at University of Ottawa)

2005-16	Member of the Joint Committee of the Senate and the Board of Governors.
2004-16	Member of the Senate.
2012-13 2011-12 2008-09	Member of the Selection Committee, Excellence in Research Award.
2007-10	Member of the Research Chairs Selection Committee.
2009	Member of the Best Thesis Selection Committee, Faculty of Graduate & Postdoctoral Studies.
2005-13	Director, Internet Technologies Program, School of Electrical Engineering and Computer Science (previously SITE).

2004-05	Member of the Selection Committee for the Associate Vice President- Research.
2004-05	Member of the Space Committee, School of Information Technology and Engineering.
2003-05	Member, Curriculum Engineering Committee, School of Information Technology and Engineering (Computer Engineering).
2004	Interim Director, Internet Technologies Program, School of Information Technology and Engineering (SITE).
2004	Member of the Extended Executive Committee, Faculty of Engineering.
2004	Member of the Strategic Advisory Committee of Table 12: Academic Governance, University of Ottawa.
2002-16	Member of the University of Ottawa Center for Photonics Research.

UNIVERSITY COMMITTEE SERVICES (at Queen's University)

2001-2002	Chair, Personnel Committee, Department of Electrical and Computer Engineering.
2000	Chair, Appeal Committee, Department of Electrical and Computer Engineering.
1998-99	Member of the Computer/Software/Electrical Engineering Task Force.
2002 1998-99	Member of the Appointment Committee, Department of Electrical and Computer, Engineering.
1997-00	Member of the Personnel Committee, Department of Electrical and Computer Engineering.
1997-99	Member of the Workload Committee, Department of Electrical and Computer Engineering.
1996-98	Chairman, Senate Information Technology Committee (Computing and Communications).
1996-98	Coordinator, Electrical and Computer Engineering/Computing and Information Science Development Ad Hoc Committee.
1995-96	Member, Senate Computing and Communications Committee.
1995-96	Member, Senate Task Force Committee on Students Computing Universal Access.
1995-97	Coordinator of the Communications Research Group, Department of Electrical and Computer Engineering.
1995-00	Member of the Curriculum Review Committee, Department of Electrical and Computer Engineering.
1994-00 1992-93	Chairman, DEC Advanced Computing and Learning Centre Joint Management Committee, Departments of Electrical Engineering and Computing and Information Science.
1991-98	Coordinator of the Computer Engineering Option, Department of Electrical and Computer Engineering.
1991-99	Member of the Head's Advisory Committee, Department of Electrical and Computer Engineering.
1991-93 1981-85	Member of the Curriculum Committee of the Department of Electrical Engineering.

1991-2002	Chairman, Ph.D. Examining Committee, School of Graduate Studies and Research (July 1991, October 1992, May 1993 and March 1996).
1988-02	Chairman, M.Sc. Examining Committee, School of Graduate Studies and Research (March 1988, September 1989, March 1990, October 1990, April 1992, April 1995, September 1996).
1989-92 1984-86	Member of the Council of the School of Graduate Studies and Research.
1987-93 1982-86	Member of the Computer Engineering Curriculum Development Committee of the Department of Electrical Engineering.
1985-86	Member of the Computer Committee of the Faculty of Applied Science.
1983-85	Member of the Admission Committee of the Faculty of Applied Science.

PROFESSIONAL COMMITTEE SERVICES

2021	Chair of the Awards Committee of the Wireless Communications Technical Committee, IEEE Communications Society, New York.
2021	Member of the Editorial Advisory Board of the edited book "AI Applications for Disease Diagnosis and Treatment", IGI Global, Hershey, Pennsylvania, USA.
2020	Member of the Nominations-and-Elections Committee of the Communications System Integration and Modelling Technical Committee of the IEEE Communications Society.
2018	Member of the Selection Committee of NASA Hacathon, American University of Kuwait, Kuwait, October.
2014-16 2000-01	Member of the Awards Committee, IEEE Communications Society, New York.
2013-2014	Chair, IEEE Innovation in Societal Infrastructure Award Committee, IEEE Awards Activities.
2013-2015	Member of the Nominations and Elections Committee, IEEE Communications Society.
2012-	Member-at-Large, Division of Applied Science and Engineering, Royal Society of Canada.
2012-2014	Member of the Advisory Committee for Howard Armstrong Award, IEEE Communications Society Awards Committee.
2012-	Founding Member, Green Communications and Computing Technical Sub-committee then Committee, IEEE Communications Society, New York.
2012-2016	Chair, FiWi: Fiber-Wireless Integration (was Integrated Fiber and Wireless Technologies) Technical Sub-Committee, IEEE Communications Society, New York.
2009-2013	Chair, Conferences and Workshops, Communications Switching and Routing Technical Committee, IEEE Communications Society.
2012	Member, IEEE Innovation in Societal Infrastructure Award Committee, IEEE Awards Activities.
2009-2012	Chair, Awards and Recognition Committee, IEEE Canada.

2009-2012	Member, Honours, Awards & Fellowships Committee, Engineering Institute of Canada.
2008-2011	Member, Awards Committee, IEEE Sensors Council.
2007-2009	Vice Chair, Awards and Recognition Committee, IEEE Canada.
2007	Member, Awards and Recognition Committee, IEEE Canada.
2006-07	Director- Education, IEEE Communications Society, New York, USA.
2006-13	Communications Society Representative on the IEEE Sensors Council.
2006-12	Founding Vice-Chair, Integrated Fiber and Wireless Technologies Technical Sub-Committee, IEEE Communications Society, New York.
2004-07	Founding Chair, Ad Hoc and Sensor Networks Technical Committee, IEEE Communications Society, New York.
2004-09	Member of the e-PHOTON/ONE Group Project on Optical Networks Research.
2004-	Member of IFIP Working Group 6.10 on Optical Networks.
2003-07	Member, International Advisory Committee, IASTED, Calgary, Alberta.
2002-03	Chair of the Awards Committee, IEEE Communications Society, New York.
2002-03	Member of the Strategic Planning Committee, IEEE Communications Society, New York.
2001-03	Founder and Chair, Optical Networking Technical Committee, IEEE Communications Society, New York.
2000-02	Member of the Joint Awards Committee, Information Theory and the IEEE Communications Society, New York.
2000	Interim Chair, Communication Systems Engineering Technical Committee, IEEE Communications Society, New York.
1998-99	Member of the Operating Committee, IEEE Communications Society, New York.
1997-99	Member of the Board of Governors, IEEE Communications Society, New York.
1994-99	Member, IEEE Communications Society Publications Operation Committee.
1993-94	Chairman, IEEE Region 7 Central Canada Council, and Member of Region 7 Executive Committee.
1989-98	Member of the Balloting Committee of the Test Access Port and Boundary-Scan Architecture P1149.1 Standards of the IEEE Computer Society Technical Committee on Testing.
1988-95	Membership Chairman, Communication Systems Engineering Technical Committee, IEEE Communications Society.
1984-94	Member of the Balloting Committee of the Local Area Network Project 802.3 Standards of the IEEE Computer Society Technical Committee on Computer Communications.
1981-	Member, IEEE Computer Society Technical Committees on Computer Communications, Multiple-Valued Logic, Mini Micro, and Fault Tolerant Computing.
1980-	Member, IEEE Communications Society Technical Committees on Computer Communications, Data Communication Systems, Communication Systems Engineering, Multimedia Communications, Communications Switching and Routing, Optical Networks, Wireless Fiber Integration Sub-Committee, Wireless Ad Hoc and Sensor Networks.

1980-81 Program Chairman, IEEE Bay of Quinte Section, Kingston Area.

CONFERENCE SERVICES

2021 Member of the Advisory Board of the IEEE International Conference on Computer Theory And Applications, Alexandria, Egypt, December 2021.

2021 Honorary Co-General Chair, IEEE Canadian Conference on Electrical and Computer Engineering (CCECE2021), London, Ontario, Canada, September 2021.

2021 Member of the Advisory Board of the IEEE International Symposium on Networks, Computers and Communications (ISNCC).

2020 Co-General Chair, 10th IEEE International Conference on Computing, Networking and Communications (ICNC 2022), Kawaii, Hawaii, February 2022.

2019 Co-General Chair, 17th IEEE International Symposium on Networks, Computers and Communications (ISNCC 2020), Montreal, Canada, October 2020.

2018 Chair, IEEE VTC2018-Fall Workshop on Vehicular Information Services for the Internet of Things (VISIT 2018), Chicago, USA, August 2018.

2018 Organized and Chaired a Panel Discussion Session on Deploying Autonomous vehicles in Smart Cities, 2nd IEEE International Conference on Computing Sciences and Engineering (ICCSE2018), Kuwait, March 2018.

2016 Co-Chair, IEEE 2016 International Conference on Selected Topics in Mobile & Wireless Networking (MoWNet2016), Cairo, Egypt, April 2016.

2015 Member of the International Program Committee of the 4th International Conference on Sensor Networks (SENSORNETS 2015), Eseo, Angers, Loire Valley, France, February 2015.

2014 Member of the Steering Committee, 2nd IEEE Workshop on the Internet of Things, in conjunction with IEEE International Conference on Computers and Communications (ICCC), Shanghai, China, October 2014.

2013 Co-Chair, 5th IEEE/IFIP International Workshop on Reliable Networks Design and Modeling (RNDM2013), Almaty, Kazakhstan, September 2013.

2013 General Co-Chair, IEEE International Workshop on Computational Intelligence for the Internet of Things (CIfIoT2013), in conjunction with IEEE Symposium Series on Computational Intelligence (SSCI2013), Singapore, April 2013.

2013 General Co-Chair, 1st International Workshop on Wireless Sensor Network Trends and Technologies (WSNTT2013), in conjunction with the 4th International Conference on Information and Communication Systems (ICICS2013), Irbid, Jordan, April 2013.

2012-13 Chair, Steering Committee, IEEE International Symposium on Computers and
2007-08 Communications.

2012 General Co-Chair, IEEE International Symposium on Computers and Communications (ISCC2012), Cappadocia, Turkey, June 2012.

2012	Chair, Technical Program Committee, IEEE International Conference on Communications (ICC2012), Ottawa, Canada, June 2012.
2010	Honorary Conference Chair, IEEE Conference on Communications Networks and Services Research (CNSR 2010), Montreal, May 2010.
2010	Co-Chair, Technical Program, IEEE Symposium on Next-Generation Networking and Internet, in conjunction with IEEE International Conference on Communications (ICC2010), Cape Town, South Africa, May 2010.
2009-13	Chair, Advisory Board, IEEE Conference on High Performance Switching and Routing.
2009	General Co-Chair, The 8th IEEE International Conference on Pervasive Intelligence and Computing (PICom-09), Chengdu, China, December 2009.
2009	General Chair, IEEE International Symposium on Emerging Ubiquitous and Pervasive Systems (EUPS-09), in conjunction with the 12th International Conference on Network-Based Information Systems (NBiS-2009), Indianapolis, IN, August 2009.
2009	Co-Chair, Technical Program, 2009 IEEE Wireless Communication Networks Conference (WCNC'2009), Budapest, Hungary, April2009.
2008-	Member of the Steering Committee and Member of the Technical Program Committee, 4th IEEE International Conference on Wireless and Mobile Computing, Networking & Communication (WiMob2008), Avignon, France, October 2008.
2008	General Chair, Create Net Internal Conference on Access Networks (AccessNet2008), Las Vegas, Nevada, October 2008.
2008	Member, Technical Program Committee, Wireless LANs and Wireless PANs Symposium, in Conjunction with the International Wireless Communications and Mobile Computing Conference (IWCMC'08), Chania Crete Island, Greece, August 2008.
2008	Co-Chair, Technical Program, 2008 IEEE Wireless Communication Networks Conference (WCNC'2008), Las Vegas, Nevada, USA, April 2008.
2007	Co-Chair, IEEE Symposium on Wireless Ad Hoc and Sensor Networks, in conjunction with IEEE Global Telecommunications Conference (Globecom'2007), St Louis, November 2007.
2007	Co-Chair, IEEE Symposium on Wireless Ad Hoc and Sensor Networks, in conjunction with IEEE International Conference on Communications (ICC2007), Glasgow, UK, June 2007.
2007	General Co-Chair, IEEE International Symposium on Computers and Communications (ISCC2007), Aviero, Portugal, June 2007.
2007	Member, Technical Program Committee, 20th International Teletraffic Congress, Ottawa, Ontario, June 2007.
2006-09	Member of the Advisory Committee, IEEE Workshop on High Performance Switching and Routing (HPSR2006), Poznan, Poland, June 2006.
2006	Co-Chair, IEEE Symposium on Wireless Ad Hoc and Sensor Networks, in conjunction with IEEE Global Telecommunications Conference (Globecom'2006), San Francisco, California, Dec. 2006.
2006	Member, Technical Program Committee, IEEE Innovations in Information Technology Conference, Dubai, November 2006.

2006	Member, International Management and Scientific Committee (IMSC), 12th International Telecommunications Network Strategy and Planning Symposium (Networks'2006), New Delhi, India, October 2006.
2006	General Chair, 2006 International Symposium on Broadband Access Technologies in Metropolitan Area Networks (ISBAT2006), Niagara Falls, Ontario, October 2006.
2006	Member, Technical Program Committee, Mobile Computing and Wireless Communications, International Conference, Amman, Jordan, September 2006.
2006	Member, Technical Program Committee, Third International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine 2006), Waterloo, Ontario, August 2006.
2006	General Co-Chair, Workshop on Application Controlled Optical Networks (ACON'2006), Ottawa, Ontario, May 2006.
2006	General Chair, IEEE Canadian Conference on Electrical and Computer Engineering (CCECE2006), Ottawa, Ontario, Canada, May 2006.
2005	Chair, IEEE Symposium on Optical Networking, in conjunction with IEEE International Conference on Communications (ICC'2005), Seoul, South Korea, May 2005.
2005	Vice-Chair, Technical Program Committee, IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob'2005), Montreal, August 2005.
2005	International Program Committee Member, EIT 2005, Lincoln, Nebraska, May 2005.
2004	Member, Technical Program Committee, First International Computer Engineering Conference (ICENCO2004), Cairo, Egypt, December 2004.
2004	Member, International Program Committee, IFIP Optical Networks and Technologies Conference (OpNeTec 2004), Pisa, Italy, October 2004.
2003	Member, Technical Program Committee, IEEE Symposium on Optical Communication Systems and Networks, in conjunction with IEEE Global Telecommunications Conference (Globecom'2004), Dallas, Texas, November 2004.
2003	General Chair, International Workshop on Optical Networks Control and Management (ONCM'04), in conjunction with 33rd International Conference on Parallel Processing, Montreal, August 2004.
2004-18	Member, Steering Committee, IEEE International Symposium on Computers and Communications.
2004	Member, Technical Program committee, 9th OptoElectronics and Communications Conference/3rd International Conference on Optical Internet (OECC/COIN2004), Kanagawa, Yokohama, Japan, July 2004.
2004	Member, Technical Advisory Board, Broadnest'2004, San Jose, California, October 2004.
2004	Member, Technical Program Committee, IEEE International Symposium on Computers and Communications, Alexandria, Egypt, July 2004.
2004	Member, International Program Committee, Fourth IASTED International Multi-Conference on Wireless and Optical Communications (WOC'2004), Banff, Canada, July 2004.

2004	Chair, IEEE Symposium on Optical Networking, in conjunction with IEEE International Conference, on Communications (ICC'2004), Paris, France, June 2004.
2004	Member, International Management and Scientific Committee (IMSC), 11th International Telecommunications Network Strategy and Planning Symposium (Networks'2004), Vienna, Austria, June 2004.
2004	Chair, IEEE Workshop on High Performance Switching and Routing, Phoenix, Arizona, April 2004.
2003	General Chair, International Workshop on Optical Networks Control and Management (ONCM2003), in conjunction with the 32nd International Conference on Parallel Processing, Kaohsiung, Taiwan, October, 2003.
2003	Member, Technical Program Committee, SPIE Opticom'2003 Conference, Dallas, Texas, Oct. 2003.
2003	Member, Technical Program Committee, Interworking'2003 conference,
2003	Member, Technical Program Committee, 2003 SCS Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2003) Conference, Montreal, Canada, July 2003.
2003	Chair, IEEE Energy Aware Wireless Communication Networks Workshop, in conjunction with International Phoenix Computers and Communications Conference (IPCCC'2003), Phoenix, Arizona, April 2003.
2002	Member, Technical Program Committee, IEEE Symposium on Optical Networks, in conjunction with IEEE Globecom'2002 Conference, Taipei, Taiwan, November 2002.
2002	Member, Technical Program Committee, IEEE Symposium on Wireless Ad Hoc Networks, in conjunction With IEEE Globecom'2002 Conference, Taipei, Taiwan, November 2002.
2002	Member, Technical Program Committee, 2002 SCS Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2002) Conference, San Diego, CA, July 2002.
2002	Member, Technical Program Committee, seventh IEEE International Symposium on Computers and Communications, Taormina, Italy, July 2002.
2002	Tutorial Chair, SPIE Opticom'2002, Boston, USA, July 2002.
2002	Chair, International Conference on Wireless Networks, Monte Carlo Resort, Las Vegas, Nevada, June 2002.
2002	Member, Technical Program Committee, IEEE Workshop on High Performance Switching and Routing, Kobe, Japan, May 2002.
2002	Chair, 21st Biennial Symposium on Communications, Kingston, Ontario, June 2002.
2002	Member, Technical Program Committee, IEEE Region 8 MELECON'2002, Cairo, Egypt, May 2002.
2002	Chair, IEEE Symposium on Optical Networking, in conjunction with IEEE International Conference on Communications (ICC'2002), New York, New York, April 2002.
2001	Co-Chair, CITO/OCRI Tech Talk on Challenges in Mobile Wireless Ad Hoc Networks, Ottawa, November 20th, 2001.

2001	Member, Technical Program Committee, Workshop on Wireless Local Networks, in conjunction with IEEE Local Computer Networks Conference, Tampa, Florida, November 2001.
2001	Member, International Advisory Committee, IEEE Malaysia International Conference on Communications (MICC'01), Sarawak, Malaysia, October 2001.
2001	Member of the International Technical Program Committee, IEEE Globecom 2001 Symposium on Ad Hoc Wireless Networks, San Antonio, Texas, November 2001.
2001	Member of the Technical Program Committee, IEEE International Symposium on Signal Processing and Information Technology, Cairo, Egypt, December 2001.
2001	Member, Technical Program Committee, Fourth International Symposium on Wireless Personal Multimedia Communications (WPMC'01), Aalborg, Denmark, September 2001.
2001	Member of the Technical Program Committee, 2001 SCS Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2001) Conference, Orlando, Florida, July 2001.
2001	Chair, IEEE Workshop on the Optical Internet, in conjunction with ICC'2001, Helsinki, Finland, June 2001.
2001	Member of the Technical Program Committee, IEEE Workshop on High Performance Switching and Routing, Dallas, June 2001.
2001	Member of the International Advisory Committee, IEEE International Conference on Networking, Colmar, France, July 2001.
2001	Member of the Technical Program Committee, Sixth IEEE International Symposium on Computers and Communications, Tunisia, July 2001.
2001	Member of the Steering Committee, IEEE Optical-Packet Interworking Workshop 2001, Montebello, Quebec, May 2001.
2001	Member of the International Program Committee, International Conference on Communication, Computer and Power (ICCCP'01), Muscat, Oman, January 2001.
2000	Chair, CITO-OCRI Tech Talk Workshop on Optical Networks, Ottawa, October 17th, 2000.
2000	Technical Program Chair, National Organizing Committee, Networks 2000 Conference, Toronto, Ontario, September 2000.
2000	International Co-Chair, International Information and Media Communication Systems Conference and Exhibition, Helsinki, Finland, September 2000.
2000	Member of the Technical Program Committee, 2000 SCS Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2000) Conference, Vancouver, British Columbia, August 2000.
2000	Member of the Technical Program Committee, Fifth IEEE International Symposium on Computers and Communications, Antibes- Juan les Pins, France, July 2000.
2000	Member of the Joint Technical Program Committee, IEEE Conference on High Performance Switching and Routing, Heidelberg, Germany, June 2000.
2000	General Co-Chair of the Conference Steering Committee, IEEE International Conference on Third Generation Wireless Communications (3G Wireless'00), Silicon Valley, California, June 2000.

2000	Member of the Technical Program Committee, First International Conference on Internet Computing, (IC'2000), Las Vegas, Nevada, June 2000.
2000	Member of the Technical Program Committee, 2000 International Switching Symposium (ISS'2000), Birmingham, United Kingdom, May 2000.
1999	Chair and Co-Organizer, CITO-OCRI Tech Talk Workshop on Optical Networks, Ottawa, October 29.
1999	Member of the Technical Program Committee, IEEE Globecom'99 Symposium on Advanced Signal Processing for Communications, Rio de Janeiro, Brazil, December 1999.
1999	`Member of the International Program Committee, Third IASTED Conference on Internet and Multimedia Systems and Applications (IMSA'99), Nassau, Grand Bahamas, October 1999.
1999	Member of the Technical Program Committee, Fourth IEEE International Symposium on Computers and Communications, Red Sea, Egypt, July 1999.
1999	General Chair, Third IEEE International Workshop on Broadband Switching Systems (BSS'99), Kingston, Ontario, June 1999.
1999	Member of the Advisory Committee, The Second International Workshop on Wireless Mobile ATM (wmATM'99), ATM Forum, California, June 1999.
1998	Technical Program Chair, IEEE Symposium on Planning and Design of Broadband Networks, Mont Tremblant, Quebec, October 1998.
1998	Member of the International Program Committee, Eighth IFIP Conference on High Performance Networking (HPN '98), Vienna, Austria, September 1998.
1998	Member of Technical Committee, Fourth International Symposium on Interworking (Interworking'98), Ottawa, Ontario, July 1998.
1998	Vice-Chair and Co-Chair of Technical Program Committee, IEEE International Symposium on Computers and Communications, Athens, Greece, June 1998.
1998	Member, Technical Program Committee, IEEE Infocom '98, San Francisco, California, March-April 1998.
1998	Member, Technical Program Committee, Seventh IEEE International Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks (CAMAD'98), Sao Paulo, Brazil, August 1998.
1997	Member, International Advisory Committee, IEEE Malaysia International Conference on Communications (MICC'97), Sarawak, Malaysia, November 1997.
1997	Member of the Technical Program Committee, IEEE International Symposium on Computers and Communications, Alexandria, Egypt, July 1997.
1997	Member of the Technical Program Committee, First IEEE Enterprise Networking Mini-Conference, in conjunction with the International Conference on Communications (ICC'97), Montreal, Quebec, June 1997.
1997	IEEE Program Co-Chair, Canadian Operations Research Annual Conference on OR and Information Technology Management, Ottawa, Ontario, May 1997.
1997	Member of the International Program Committee, Seventh IFIP Conference on High Performance Networking (HPN'97), White Plains, New York, April/May 1997.

1996	Member of the Technical Program Committee, SPIE's Photonics East Conference on Broadband Access Systems, Boston, Massachusetts, November 1996.
1996	Member of the Technical Program Committee, IEEE ATM Workshop'96, San Francisco, California, August 1996.
1996	Member of the Program Committee, SPIE's Photonics China Conference on Electronic Imaging and Multimedia Systems, Beijing, China, November 1996.
1996	Technical Program Chair, IEEE Symposium on Planning and Design of Broadband Networks, Montebello, Quebec, October 1996.
1996	Chairman, Eighteenth Biennial Symposium on Communications, Queen's University, Kingston, Ontario, June 1996.
1995	Chairman, TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1995.
1995	Member of the Technical Program Committee, SPIE Conference on Fast Packet Technologies, Program on Architectures, Protocols and Implementations, Philadelphia, Pennsylvania, October 1995.
1995	Member of the Technical Program Committee, SPIE Conference on Hybrid Fiber-Coax Systems, Program on Architectures, Protocols and Implementations, Philadelphia, Pennsylvania, October 1995.
1995	Member of the Technical Program Committee, IEEE ATM Workshop '95, Washington, D.C., October 1995.
1995	Member of the Technical Program Committee, IEEE Symposium on Computers and Communications, Alexandria, Egypt, June 1995.
1994	Technical Program Chairman, IEEE Symposium on "Planning and Design of Broadband Networks", Montebello, Quebec, October 1994.
1994	Chairman, TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, September 1994.
1994	Member of the Advisory Committee of the First International Conference on Electronics and Information Technology (ICEIT'94) Beijing, China, August 1994.
1994	Chairman, Seventeenth Biennial Symposium on Communications, Queen's University, Kingston, Ontario, June 1994.
1994	Member of the Technical Program Committee of the IEEE Conference: "Canada & Telecommunications: The Next Generation-Technology and Applications", Ottawa, Ontario, May 1994.
1981-16	Chairman (C) and/or Organizer (O) of 82 Technical Sessions mostly at IEEE International Conferences:

JAC-ECC2020(C) "Workshop in Smart Cities #W2", JAC-ECC2020, Alexandria, Egypt.

ICCSCC2019(C) "Computer Science & Cloud Computing", ICCSCC2019, Rome, Italy.

CCECE2016(C)   "Optical and Visible Light Networks", CCECE2016, Vancouver, Canada.

ISCC2013(C)   "Wireless and Mobile Communication IV", ISCC2013, Split, Croatia.

OWITSN2013(C)   "Networks Integration", OWITSN2013, Budapest, Hungary.

ISCC2012(C)   Plenary Session: Keynote Speaker", ISCC2012, Cappadocia, Turkey.

HPSR2012(C)   "Best Paper Candidates", HPSR2012, Belgrade, Serbia.

HPSR2011(C)   "Survivability", HPSR2011, Cartagena, Spain.

ICC2010 (C)   "Routing", ICC2010, Cape Town, South Africa.

ISCC2008(C)   "Wireless Sensor Networks", ISCC2008, Marrakech, Morocco.

HPSR2008(C)   "Optical Networking", HPSR2008, Shanghai, China.

CCECE2008(C)   "Optical Networks I", CCECE2008, Niagara Falls.

ISCC'06(C)   "Optical Networking I" and "Wireless, Cellular, Mobile Networks II", The 11th International Symposium on Computers and Communications, Sardinia, Italy.

QBSC'06(C)   "Optical Networks", QBSC2006, Kingston, Ontario.

QSHINE'04(C)   "Ad-Hoc and Sensor Networks", QSHINE2004, Dallas, Texas.

ISCC2004(C)   "Optical Communications", ISCC2004, Alexandria, Egypt.

Networks2004(C)   "NGN Performance Issues", Networks2004, Vienna, Austria.

ONDM'04(C)   "Protection and Restoration", Working Conference on Optical Networks Design and Modelling, Ghent, Belgium.

MWSCAS'03(C)   "Networks:QoS", 46th MidWest Symposium on Circuits and Systems, Cairo.

Globecom'03(C)   "Optical Switching I" and "Optical Switching II", Globecom'03 Symposium on Optical Systems and Networks, San Francisco.

SPECTS'03(C)   "TCP", Symposium on the Performance Evaluation of Computers and Telecommunication Systems, Montreal.

HPSR'03(C)   "Performance Analysis", High Performance Switching and Routing Workshop, Torino, Italy.

Globecom'01(C)   "Router Behavior and Performance", Globecom'01 Internet Performance Symposium, San Antonio, TX.

SPECTS'01(C)   "ATM", Symposium on the Performance Evaluation of Computers and Telecommunication Systems, Orlando, Florida.

ICN'01 (C)   "Differentiated Services Networks", International Conference on Networking, Colmar, France.

ISCC'2001 (C)   "Algorithms and Optimization Techniques for Computer Networks", International Symposium on Computers and Communications, ElHammamet, Tunisia.

HPSR'01(C)   "Admission Control", High Performance Switching and Routing Workshop, Dallas.

CCECE'2001(C)	"Computer Networks", Canadian Conference on Electrical and Computer Engineering, Toronto, Ontario.
Globecom'2000(C)	"Performance Analysis in the Long Range Dependence", Globecom'00 High Speed Networks Symposium, San Francisco, CA.
Networks'2000(C)	"Designing Petabit Networks", Networks'2000, Toronto, Ontario. ISCC'00(C) "Broadband Networks II", International Symposium on Computers and Communications, Joan Les Pins, France.
ISCC'99(C)	"ATM Switching", International Symposium on Computers and Communications, Sharm El Sheikh, Egypt.
QBSC'98(C)	"ATM", Nineteenth Biennial Symposium on Communications, Kingston, Ontario.
CORS'98 (C&O)	"ATM Networks", Canadian Operations Research Annual Conference (CORS/INFORMS'98), Montreal, Quebec.
BSS'97 (C)	"Photonic Switching Related Topic" and "Wireless ATM", International Workshop on Broadband Switching Systems, Taipei, Taiwan.
CORS'97 (C&O)	"Wireless ATM", Canadian Operations Research Annual Conference, Ottawa, Ontario.
CORS'97 (O)	"Routing and Flow Control in ATM Networks", ATraffic Management in ATM Networks", "Telecommunications Networks", "ATM Switch Architectures and Network Controllers", Canadian Operations Research Annual Conference, Ottawa, Ontario.
CCECE'96 (C)	"ATM II", Canadian Conference on Electrical and Computer Engineering, Calgary, Alberta.
SCC'95 (C)	"Asynchronous Transfer Mode 1", International Symposium on Computers and Communications, Alexandria, Egypt.
CCECE'94 (C)	"Video 1" and "Wireless Communications", Canadian Conference on Electrical and Computer Engineering, Halifax, Nova Scotia.
CCECE'93 (C)	"Topics in ATM and B-ISDN II", Canadian Conference on Electrical and Computer Engineering, Vancouver, British Columbia.
NECEC'93(C)	"Computer Applications III", Newfoundland Electrical and Computer Engineering Conference, St. John's, Newfoundland.
CAMAD'92(C&O)	"Advances in CAMAD for Links and Networks", Fourth International Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks, Montebello, Quebec.
CCECE'91 (C)	"Communication Networks I", "Coding", Canadian Conference on Electrical and Computer Engineering, Quebec City, Quebec.

ICC'91 (C&O)	"Modeling of Broadband ISDNs", International Conference on Communications, Denver, Colorado.
COMCONEL'90 (C)	"Communication Systems", COMCONEL'90 Conference, Cairo, Egypt.
FTDCS'90 (C)	"Parallel and Multiprocessing", Workshop on Future Trends of Distributed Computing Systems in the 1990's.
CAMAD'90 (C&O)	"Modeling and Simulation Case Studies – Networks", Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks, Torino, Italy.
FAW/IEEE'90 (C)	"ATM Networks", FAW/IEEE Workshop on Communications and AI, Gunsburg, Germany.
CCECE'90 (C&O)	"Broadband Communication Networks", Canadian Conference on Electrical and Computer Engineering, Ottawa, Ontario.
QBSC'90 (C)	"Packet Networks", Fifteenth Biennial Symposium on Communications, Kingston, Ontario.
ICC'90 (C&O)	"Modeling of Broadband Networks", International Conference on Communications, Atlanta, Georgia.
Globecom'89 (C&O)	"Performance and Analysis of Computer Networks", Global Telecommunications Conference, Dallas, Texas.
CCECE'89 (C)	"Computer Communication Networks II", Canadian Conference on Electrical and Computer Engineering, Montreal, Quebec.
ISMVL'89 (C)	"Logic Design II", Nineteenth International Symposium on Multiple-Valued Logic, Guangzhou, China.
ICC'89 (C&O)	"Expert Systems Applications in Communications and Network Operations" and "Multimedia Network Integration", International Conference on Communications, Boston, Massachusetts.
CAMAD'88 (C&O)	"Expert Systems and Communication Modeling", Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks, Amherst, Massachusetts.
MOD&SIM'88 (C)	"Mathematical Tools, Signals" and "Communications", AMSE International Conference on Modeling & Simulation, Istanbul.
QBSC'88 (C&O)	"Computer Networks I", Fourteenth Biennial Symposium on Communications, Kingston, Ontario.
ICC'88 (C&O)	"Computer Aided Modeling, Analysis and Design of Communication Networks", International Conference on Communications, Philadelphia, Pennsylvania.
ISMVL'88 (C)	"MVL Special Applications", Eighteenth International Symposium on Multiple-Valued Logic, Palma De Mallorca, Spain.
ISMVL'87 (C)	"Logical Design", Seventeenth International Symposium on Multiple-Valued Logic, Boston, Massachusetts.

MONTECH'86 (C)	"Voice-Data and Communications Architecture", International Montech'86 Conference on Antennas and Communications, Montreal, Quebec.
ICC'86 (O)	"Computer-Aided Modeling of Communication Systems", International Conference on Communications, Toronto, Ontario.
CAMAD'86 (C&O)	"Network Simulation", Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks, Lawrence, Kansas.
ICC'83 (C&O)	"Performance Evaluation of Microprocessor Based Communication Systems", and "Digital Signal Processors for Communications", International Conference on Communications, Boston, Massachusetts.
Globecom'82(C&O)	"Distributed Processing Systems", Global Telecommunications Conference, Miami, Florida.
ICC'82 (C&O)	"Network Access Systems", International Conference on Communications, Philadelphia, Pennsylvania.
NTC'81 (C&O)	"Microprocessor Applications in Communication Systems", National Telecommunications Conference, New Orleans, Louisiana.
IEEC & E'81 (C)	"Communication Networks", International Electrical and Electronics Conference and Exhibition, Toronto, Ontario.
ICC'81 (C&O)	"Communication Systems for the Home", International Conference on Communications, Denver, Colorado.

INVITED SPEAKER:

2019	American University of Cairo, Cairo, Egypt
2018	Center for Research in Informatics, Sciences, and Engineering, AUK, Kuwait.
2018	Kuwait University, Kuwait.
2018	American University of Kuwait (AUK), Kuwait.
2016	Nile University, Cairo, Egypt.
2015	University of Waterloo, Waterloo, Ontario, Canada.
2014	Clarkson University, Potsdam, New York, USA.
2010	Egypt-Japan University of Science and Technology (E-JUST), Alexandria, Egypt.
2010	Supreme Council of Universities, Cairo, Egypt.
2010	African Institute of Mathematical Science, Cape Town, South Africa.
2010	PSATRI, King Saud University, Riyadh, Saudi Arabia.
2010	IEEE Alexandria Section, Higher Institute for Advanced Technology and Engineering, Egypt.
2009	Saudi Telecommunications Society, Riyadh, Saudi Arabia.
2009	Saudi Telecomm Corp, Riyadh, Saudi Arabia.

2008	Graduate University of Chinese Academy of Science, Beijing, China.
2008	IEEE Ottawa Section, Computer and Communications Chapter, Ottawa, Canada.
2007	University of Toronto, Toronto, Canada (Toronto Networking Seminars Series)
2006	National Institute of Telecomm., Warsaw, Poland (IEEE ComSoc Distinguished Lecturer Tour)
2006	Warsaw University of Technology, Warsaw, Poland (IEEE ComSoc Distinguished Lecturr Tour)
2006	Royal Institute of Technology, Stockholm, Sweden (IEEE ComSoc Distinguished Lecturr Tour)
2006	Lund University, Lund, Sweden (IEEE ComSoc Distinguished Lecturer Tour)
2006	Norwegian University of Science and Technology, Trondheim, Norway (IEEE ComSoc DLT)
2006	Technical University of Istanbul, Turkey (IEEE ComSoc Distinguished Lecturer Tour)
2006	American University of Cairo, Cairo, Egypt.
2005	University of Trinidad and Tobago, Couva, Trinidad.
2005	University of Girona, Girona, Spain.
2005	Information and Communications University, Daejong, Korea.
2005	Cairo University, Cairo, Egypt.
2004	University of Wales-Swansea, UK (IEEE ComSoc Distinguished Lecturer Tour)
2004	University College London, London, UK (IEEE ComSoc Distinguished Lecturer Tour)
2004	Arab Academy of Science and Technology, Alexandria, Egypt.
2004	Concordia University, Montreal (Distinguished Speakers Seminar Series)
2003	Telmar Corp., Salvador, Brazil (IEEE ComSoc Distinguished Lecturer Tour)
2003	Salvador University, Salvador, Brazil (IEEE ComSoc Distinguished Lecturer Tour).
2003	NEC USA, Princeton, New Jersey, USA.
2002	Coch University, Istanbul, Turkey.
2002	Istanbul Technical University, Turkey (IEEE ComSoc Distinguished Lecturer Tour).
2002	Trento University, Trento, Italy (IEEE ComSoc Distinguished Lecturer Tour).
2002	Eastern Mediterranean University, Arcan, North Cyprus (IEEE ComSoc Disting. Lecturer Tour)
2002	Alexandria University, Alexandria, Egypt (IEEE ComSoc Distinguished Lecturer Tour).
2002	Cairo University, Cairo, Egypt (IEEE ComSoc Distinguished Lecturer Tour).
2001	Technical University of Budapest, Budapest, Hungary.
2000	Arab Academy of Science and Technology, Alexandria, Egypt.
2000	Ecole Polytechnique Nationale de Lausanne, Communications Engineering Dept., Lausanne, Switzerland.
2000	University of Genoa, Department of Electrical and Computer Engineering, Genoa, Italy.
1999	University College London, Department of Electronic and Electrical Engineering, London, England.

1999	Institut National de Recherche en Informatique et en Automatique, INRIA Rennes (IRISA), Rennes, France.
1999	Ecole National Superieure de Telecommunications (ENST-Bretagne), Rennes, France.
1998	Motorola Research Centre, Sydney, Australia.
1998	IEEE Communications Chapter, Montreal Section.
1998	GNNettest Canada, Markham, Ontario.
1997	Hong Kong University of Science and Technology, Departments of Computer Science and Electrical Engineering, Hong Kong.
1997	University of Northumbria, Dept. of Electrical, Electronic Engineering and Physics, Newcastle, England.
1997	University of Alexandria, Dept. of Telecommunications Engineering, Alexandria, Egypt.
1994- 98	Helwan University, Dept. of Electronics and Telecommunications, Cairo, Egypt.
1993	IBM Research Division, Zurich, Switzerland.
1993	Ramon Llull University, Information Systems and Computers Department, Barcelona, Spain.
1992	Polytechnical University of Catalonia, Barcelona, Spain.
1991	Arab Maritime Transportation Academy, Alexandria, Egypt.
1991	AT&T Bell Laboratories, Holmdel, New Jersey.
1990	Department of Electrical Engineering, Eindhoven University, Eindhoven, The Netherlands.
1990	NEC Research Institute, Princeton, New Jersey.
1990	Computer Sciences Corporation, Beltsville, Maryland.
1990	Siemens AG, Munich, Germany.
1990	Panelist, IEEE Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks, Politechnico di Torino, Torino, Italy.
1989	Department of Electrical Engineering, University of Windsor, Windsor, Ontario.
1989	Gandalf Data Limited, Nepean, Ontario.
1989	Institute of Microelectronics, Tsinghua University, Beijing, China.
1989	Department of Telecommunication Engineering, Xian Institute of Posts and Telecommunications, Xian, China.
1989	Department of Information Science, University of Milano, Milan, Italy.
1989	Department of Electronics, Polytechnical University of Torino, Turin, Italy.
1989	Bell Northern Research, Ottawa, Ontario.
1988	Panelist, IEEE Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks, University of Massachusetts, Amherst.
1988	Department of Electronics and Information Systems, University of Granada, Granada, Spain.

1988   Department of Electronics, University of Sevilla, Sevilla, Spain.

1988   Department of Electronic Engineering, Polytechnical University of Madrid, Spain.

1988   Expert Systems User Group, Queen's University, Kingston, Ontario.

1988   IEEE Communications Chapter, Ottawa Section.

1988   Department of Electrical Engineering, Concordia University, Montreal.

1987   Department of Electronic Engineering, Tohoku University, Sendai, Japan.

1987   Institute of Microelectronics, Tsinghua University, Beijing, China.

1987   Telecommunication and Signal Design Institute, Beijing, China.

1987   Department of Electronics and Telecommunication, University of Helwan, Cairo, Egypt.

1987   Panelist, Workshop on Advanced Communication System Engineering, Sedona, Arizona.

1987   IEEE Kingston Section, Kingston, Ontario.

1987   Department of Electrical Engineering, University of Ottawa.

1986   Panelist, IEEE Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks, University of Kansas, Lawrence.

1986   Department of Electrical Engineering, Laval University, Quebec.

1986   Department of Electrical Engineering, University of Cairo, Egypt.

1986   The National Institute of Telecommunications, Cairo, Egypt.

1986   Centre of Research and Development for Electronic Industries, Cairo, Egypt.

EXTERNAL THESIS EXAMINER:

2021   Carleton University, Ottawa

2020   Carleton University, Ottawa

2020   Memorial University of Newfoundland, St John's

2018   Carleton University, Ottawa

2016   Nanyang Technological University, Singapore

2016   Hong Kong University of Science and Technology, Hong Kong

2015   University Putra, Malaysia

2015   University of Toronto, Toronto

2015   Carleton University, Ottawa

2015   Hong Kong University of Science and Technology, Hong Kong

2015   Tezpur University, India

2015   University of Waterloo, Waterloo

2014   University of Toronto, Toronto

2014	Memorial University of Newfoundland, St John's
2014	Hong Kong University of Science and Technology, Hong Kong
2013	Queen's University, Kingston
2013	Carleton University, Ottawa
2013	Queen's University, Kingston
2012	Hong Kong University of Science and Technology, Hong Kong
2011	Carleton University, Ottawa
2011	Carleton University, Ottawa
2011	INRS Telecommunications, Montreal
2011	Carleton University, Ottawa
2011	Memorial University of Newfoundland, St John's
2010	Instiue National de Recherches Scientifiques- Telecommunications, Montreal
2010	Hong Kong University of Science and Technology
2010	Carleton University, Ottawa
2010	University of Montreal, Montreal
2010	Carleton University, Ottawa
2009	University of New South Wales, Sydney, Australia
2009	Carleton University, Ottawa
2009	University of Quebec, Ecole de Technologie Superieure, Montreal
2009	Royal Institute of Technology, Stockholm, Sweden
2009	Ecole Polytechnique, University of Montreal
2008	University of Malaya, Malaysia
2008	Hong Kong University of Science and Technology
2007	Concordia University, Montreal
2006	Royal Institute of Technology, Stockholm, Sweden
2005	Carleton University, Ottawa
2004	Indian Institute of Technology, Kharagpur, India
2004	Ecole Polytechnique, University of Montreal
2003	Concordia University, Montreal
2003	Carleton University, Ottawa
2001	University of Bahrein, Bahrein
2000	University of British Columbia
1999	University of Rennes 1, ENST-Bretagne, France
1999	India Institute of Technology, Kanpur, India
1996	University of New South Wales, Australia

1996	University of Waterloo, Waterloo
1995	University of Quebec, INRS - Telecommunications
1994	University of Ottawa, Ottawa
1990	Memorial University of Newfoundland
1989	University of Windsor, Windsor
1986-89	McGill University, Montreal
1980-97	Royal Military College of Canada
1986	Carleton University, Ottawa
1982	University of Toronto, Toronto

REVIEWER:

IEEE Transactions on Smart Grid

IEEE/ACM Transactions on Networking

IEEE Transactions on Communications

IEEE Transactions on Computers

IEEE Transactions on Circuits and Systems

IEEE Transactions on Parallel and Distributed Processing

IEEE Journal on Selected Areas in Communications

IEEE Communications Magazine

IEEE Networks Magazine

Proceedings of the IEEE

IEE Proceedings, Part G, Electronic Circuits and Systems

IEE Proceedings, Part E, Computers and Digital Techniques

Canadian Journal of Electrical and Computer Engineering

Journal of Computer Communications

Journal of Computer Networks and ISDN Systems

Journal of Network and Systems Management

International Journal of Communication Systems

Journal of Engineering Sciences

IEEE International Conference on Communications

IEEE National Telecommunications Conference

IEEE Global Telecommunications Conference

IEEE International Symposium on Multiple-Valued Logic

IEEE International Symposium on Information Theory

IEEE International Symposium on Circuits and Systems

IEEE Montech'86 Conference on Antennas and Communications

IEEE Annual Joint Conference on Computer and Communications (INFOCOM)

IEEE Fault Tolerant Computing Symposium

IEEE Canadian Conference on Electrical and Computer Engineering

Canadian Conference on Very Large Scale Integration

IEEE Workshop on Computer Aided Modeling, Analysis and Design of Communication Links and Networks

Biennial Symposium on Communications

PROFESSIONAL ASSOCIATIONS:

2019-	Fellow, European Union Academy of Sciences
2008-	Fellow, Royal Society of Canada RSC: The Academy of Science.
2005-	Fellow, Engineering Institute of Canada (EIC)
2003-	Fellow, Canadian Academy of Engineering (CAE)
1990-	Fellow, Institute of Electrical and Electronic Engineers (IEEE)
1980-89	Senior Member, IEEE
1980-	Member, Canadian Society of Electrical and Computer Engineering
1979-	Member, Canadian Association of University Teachers
1975-	Member, Association of Professional Engineers of Ontario
1975-80	Member, IEEE
1974-75	Student Member, IEEE
1974-75	Member, Canadian Information Processing Society

SUMMER JOBS:

1973	Research Assistant, Department of Information Science, Laval University, Quebec.
1969	Computer Programmer, Computer Center, University of Alexandria, Egypt.
1968	General Egyptian Organization for Telecommunications, Alexandria, Egypt.
1966	ASEA, Arbogawerken, Arboga, Sweden.

COURSES TAUGHT (at University of Ottawa)

ELG5381	Photonic Networks
ELG7199	Directed Studies: Smart Grid Communication Networks
ELG7199	Directed Studies: Wireless Sensor Networks
ELG5906	Directed Studies: Wireless Sensor Networks

ELG5383   Survivable Optical Networks

ELG5906   Directed Studies: Ethernet Passive Optical Networks

ELG7177E   Topics in Communication Networks: Survivable Optical Networks

Directed Studies courses (taught at University of Ottawa)

-Smart Grid Communication Networks
September 2015: Ahmed Helmy

-Wireless Sensor Networks:

September 2012: Mohammad AlShaabani, Raja A. Aurangzeb, Ahsan Ejaz, James C. Koksal,
          Emran Mazumder, Tolu Emmanuel Ogunrinola, M. Kamran Siddique

September 2011: Hussein Salameh, Sohail Zaki

January 2011: Ahmed Mohamed Ahmed

September 2010: Irfan Al-Anbagi, Naouar Yaagoubi, Wang Xie

May 2010: Mouhcine Guennoun

May 2009: Mahmoud Gad, Blerim Qela, Yamen Nasrallah

January 2009: Mounib Khanafer, Salim Said

May 2007: Kamal Al-Hawashem

-Passive Optical Access Networks:

May 2012: Yamen Nasrallah

September 2008: Abdulbaset Hassan, Munir Bazama

May 2006: M. Faisal Kamran

COURSES TAUGHT (in the last ten years while at Queen's University)

ELEC-879 Switching Techniques in Integrated Communication Networks; also, ELEC-869 (Graduate)
ELEC-874 Fault Tolerant and Fault Testable Digital Systems (Graduate)
ELEC-873 Microprocessor-Based Systems: Design and Application (Graduate)
ELEC-853 Modern Semiconductor Circuits (Graduate)
ELEC-471 Computer Networks I
ELEC-462 Digital Communications and Computer Networks
ELEC-375 Microprocessor Systems
ELEC-373 Microprocessor and Digital Data Techniques
ELEC-271 Digital Systems
ELEC-272 Digital Systems Principles
ELEC-313 Basic Electrical Circuits
ELEC-292 Electrical Engineering Laboratory
ELEC-490 Electrical Engineering Project
GEF-473   Computer Networks and Protocols (RMC, in French)

SHORT COURSES:

Date	No. of Days	Subject	Sponsorship
March 2018	½	Autonomous Vehicles in Smart Cities	IEEE ICCSE2018 Kuwait, Kuwait
May 2017	½	Connected Electric Vehicles: Vehicle-to-Grid and Grid-to-Vehicle Applications	IEEE CCECE2017, Windsor, Ontario
October 2015	½	Communication Architectures And Networking for Electric Vehicles in the Smart Grid	IEEE ICUWB2015, Montreal, Canada
June 2015	½	Communication Architectures And Networking for Electric Vehicles in the Smart Grid	IEEE ICC2015, London, England, UK
May 2015	½	Communication Architectures And Networks for Electric Vehicles In the Smart Grid	IEEE VTC2015-Spring, Glasgow, Scotland
March 2015	½	Survivable Optical Networks	IEEE DRCN2015, Kansas City, Missouri
March 2015	½	Architectures, Models and Networks for Electric Vehicles In the Smart Grid	IEEE WCNC2015, New Orleans, Louisiana
September 2014	½	Architectures, Models and Networks for Electric Vehicles In the Smart Grid	IEEE VTC2014-Fall, Vancouver, British Columbia
May 2014	½	Architectures, Models and Networks for Electric Vehicles In the Smart Grid	IEEE ECECE2014, Toronto, Ontario
January 2010	½	Wireless Sensor Networks Next Generation Networks for Military and Homeland Security	Prince Sultan Advanced Technologies Research Institute, King Saud University, Riyadh, Saudi Arabia
October 2005	18	Topics in Comm.: Survivable Optical Networks	University of Trinidad and Tobago
June 2004	1/2	Survivable Optical Networks	IEEE ICC2004 Optical Networking Symposium
October 2003	1/2	Advances in Photonic Packet Switching Networks	XX Brazilian Symposium for Telecommunications (SBT'03)
June 2002	1/2	IP Over WDM NCA and Protection/Restoration	NEC Europe, Heidelberg, Germany

May 2002	1/2	IP Over WDM Network Control Architecture	IEEE Workshop on High Performance Switching and Routing (HPSR'02)
April 2002	1/2	IP Over WDM NCA and Protection/Restoration	IEEE ICC2002 Optical Networking Symposium
May 2001	1/2	IP Over WDM Network Architecture	IEEE Workshop on High Performance Switching and Routing (HPSR'01)
October 2000	1/2	Wireless Ad Hoc Networks Networks,	Wireless Forum IX, Nortel Ottawa, Ontario
June 1999	1/2	Photonic Switching Technology	IEEE Workshop on Broadband Switching Systems (BSS'99) Kingston, Ontario
May 1999	1/2	IP QoS Management	Brazilian Symposium on Computer Networks (SBRC'99), Salvador, Brazil
May 1999	1/2	Photonic Switching Networks	Brazilian Symposium on Computer Networks (SBRC'99), Salvador, Brazil
November 1998	1	Photonic Switching Technology	IEEE Global Telecommunications Conference, Sidney, Australia
June 1987	3	IC Design for Testability	Canadian Microelectronics Corp., Kingston, Ontario
July 1984	5	Microprocessors Design and Application	McGill Summer Institute of Computer Science, Montreal, Quebec
September 1983	3	Microprocessors Design and Application	Dept. of Electrical Engineering, Queen's University, Kingston, Ontario

CONSULTING:

2013-14	APX Consult, Ottawa, Canada
2012-14	6Harmonics, Ottawa, Canada
2004	Communications Research Centre, Industry Canada, Ottawa
2001	The United Nations, Egypt (at the Egyptian Association for Computer, and the Academy Scientific Research and Technology, both of Cairo)
2000-04	Glow Networks, Richardson, Texas
1998-04	Nortel Networks, Ottawa, Ontario
1996-98	Nortel Technology, Ottawa, Ontario

1997	Nortel, Ottawa, Ontario
1995-96 1993-94 1986-87	Bell-Northern Research, Ottawa, Ontario
1992-93	Spar Aerospace Ltd., Ste.-Anne-de-Bellevue, Quebec
1990	Computer Sciences Corporation, Beltsville, Maryland
1989	Syntronics Systems Incorporated, Toronto, Ontario
1989	Canadian Microelectronics Corporation, Kingston, Ontario
1988-90	Transportation Development Centre, Montreal, Quebec
1988	Bell Canada, Ottawa, Ontario
1986	The United Nations, Egypt (at the Electronic Industries Research and Development Centre, and the National Institute of Telecommunications, both of Cairo)
1984-93	Canadian Institute of Guided Ground Transport, Kingston, Ontario
1983-86	Adaptive Microelectronics Limited, Toronto, Ontario
1983-84	Department of National Defence, Ottawa, Ontario
1983-84	Cataraqui Industrial Controls, Kingston, Ontario
1981-82	Department of Communications (Federal), Ottawa, Ontario
1980-81	Northern Telecom, Belleville, Ontario
1980	Motorola Information Systems (ESE Limited), Toronto, Ontario

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RESEARCH GRANTS AND CONTRACTS (last fifteen years)

Name	Funding Agency - Title of Project	Amount	Year
GC234 H.T.Mouftah	NSERC Discovery (Grant) Wireless Heterogeneous Sensor Networks For the Internet of Things	58,000	22-23
GC233 H.T.Mouftah	NSERC Discovery (Grant) Wireless Heterogeneous Sensor Networks For the Internet of Things	58,000	21-22
GC232 H.T.Mouftah (B. Kantarci (PI))	OCE-5G(ENCQOR) ATD Program Machine Learning-based Firewall-less Scurity Automation for the Network Edge	75,000	21-22
GC231 H.T.Mouftah	NSERC Discovery (Grant) Wireless Heterogeneous Sensor Networks For the Internet of Things	58,000	20-21
GC230 H.T.Mouftah (B. Kantarci (PI))	OCE-5G(ENCQOR) ATD Program Machine Learning-based Firewall-less Scurity Automation for the Network Edge	75,000	20-21

GC229 H.T.Mouftah	NSERC Discovery (Grant) Wireless Heterogeneous Sensor Networks For the Internet of Things	58,000	19-20
GC228 H.T.Mouftah	NSERC Discovery (Grant) Wireless Heterogeneous Sensor Networks For the Internet of Things	58,000	18-19
GC227 H.T. Mouftah	SOSCIP-OCE (Grant) Intelligent Emergency Response Using the Internet of Things	57,500	17-18
GC226 H.T.Mouftah	NSERC Discovery (Grant) Wireless Heterogeneous Sensor Networks For the Internet of Things	58,000	17-18
GC225 H.T. Mouftah	CENGN-Mitacs Accelerate (Grant) A Virtualized Cloud-based Multi-tenant Environment for Developing SDN Products: OSIT Optical Transport SDN	10,000	17
GC224 H.T. Mouftah	SOSCIP-OCE (Grant) Intelligent Emergency Response Using the Internet of Things	57,500	16-17
GC223 H.T. Mouftah	Mitacs Accelerate with APX (Grant) Smart Technology Use with Public Safety and First Responders	45,000	16
GC222 H.T. Mouftah	NSERC Engage (Grant) Network and Topology Discovery in Internet of Things	25,000	16
GC221 H.T. Mouftah	Canada Research Chairs Wireless Sensor Networks	1,400,000	16-23
GC220 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in Wireless Heterogeneous Sensor Networks	70,000	15-16
GC219 H.T. Mouftah	NSERC Engage (Grant) A Robust Zigbee Sensor Network with Extended Reach	25,000	15-16
GC218 A. Boukerche (With 9 other Co-PIs)	NSERC CREATE (Grant) TRANSIT: Training and Research in Advanced Network Systems for Intelligent Transportation	1,650,000	15-21
GC217 H.T. Mouftah (With 5 others)	Smart Grid Fund (Ontario M.of Energy Contract) SecCharge: Secure Electric Vehicle Ecosystem for Smart Grid	3,090,800	14-16
GC216 H.T. Mouftah	NSERC Discovery (Grant)	70,000	14-15

	Design Issues in Wireless Heterogeneous Sensor Networks		
GC215 H.T. Mouftah	OCE/Connect Canada/APX Intelligent Building Response to Emergencies	30,000	14
GC214 H.T. Mouftah (With D. Makrakis)	NSERC Strategic Network DIVA (Grant) Design of an Advanced ITS Supporting Network, Integrating Heterogeneous Network Technologies	60,000	14-15
GC213 H.T. Mouftah (With V. Leung Co-PI)	NSERC Strategic Network DIVA (Grant) Heterogeneous Vehicle-to-Vehicle and Vehicle-to-Infrastructure System Integration and Evaluation Strategies	52,000	14-15
GC212 H.T. Mouftah	NSERC Engage (Grant) Building Tactical Information System (BTIS) for public safety	22,000	13-14
GC211 H.T. Mouftah (With M. Maier PI)	NSERC Strategic (Grant) Fiber-Wireless Access Sensor Networks and New Communications Paradigms for a Future Low Carbon Society of E-Mobility and Smart Microgrids	145,500	13-14
GC210 H.T. Mouftah	6Harmonics (Contract) Adaptive Antennas Algorithms for Cognitive Super WiFi Networks	30,000	13-14
GC209 H.T. Mouftah	Cisco (Donation) 10 Cisco Routers	200,000	13-14
GC208 H.T. Mouftah	Bell Canada (Contract) Secure Real-time Communications in Internet-Based Wireless Sensor Networks	25,000	13-14
GC207 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in Wireless Heterogeneous Sensor Networks	70,000	13-14
GC206 H.T. Mouftah (With D. Makrakis)	NSERC Strategic Network DIVA (Grant) Design of an Advanced ITS Supporting Network, Integrating Heterogeneous Network Technologies	60,000	13-14
GC205 H.T. Mouftah (With V. Leung Co-PI)	NSERC Strategic Network DIVA (Grant) Heterogeneous Vehicle-to-Vehicle and Vehicle-to-Infrastructure System Integration and Evaluation Strategies	52,000	13-14
GC204 H.T. Mouftah	Bell Canada (Contract) Secure Real-time Communications in Internet-Based Wireless Sensor Networks	25,000	12-13
GC203 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in Wireless Heterogeneous Sensor Networks	70,000	12-13
GC202 H.T. Mouftah (With M. Maier PI)	NSERC Strategic (Grant) Fiber-Wireless Access Sensor Networks and New Communications Paradigms for a Future Low Carbon Society of E-Mobility and Smart Microgrids	142,000	12-13

GC201 H.T. Mouftah (With D. Makrakis)	NSERC Strategic Network DIVA (Grant) Design of an Advanced ITS Supporting Network, Integrating Heterogeneous Network Technologies	60,000	12-13
GC200 H.T. Mouftah (With V. Leung Co-PI)	NSERC Strategic Network DIVA (Grant) Heterogeneous Vehicle-to-Vehicle and Vehicle- to-Infrastructure System Integration and Evaluation Strategies	52,000	12-13
GC199 H.T. Mouftah	Bell Canada (Contract) Secure Real-time Communications in Internet- Based Wireless Sensor Networks	25,000	11-12
GC198 H.T. Mouftah (With M. Maier PI)	NSERC Strategic (Grant) Fiber-Wireless Access Sensor Networks and New Communications Paradigms for a Future Low Carbon Society of E-Mobility and Smart Microgrids	144,500	11-12
GC197 H.T. Mouftah (With D. Makrakis)	NSERC Strategic Network DIVA (Grant) Design of an Advanced ITS Supporting Network, Integrating Heterogeneous Network Technologies	60,000	11-12
GC196 H.T. Mouftah (With V. Leung Co-PI)	NSERC Strategic Network DIVA (Grant) Heterogeneous Vehicle-to-Vehicle and Vehicle- to-Infrastructure System Integration and Evaluation Strategies	52,000	11-12
GC195 H.T. Mouftah	Cisco Collaborative Research Initiative (Grant) An Efficient Aggregate Multiparty Signature Scheme for S-BGP AS-PATH Validation	75,000	11-12
GC194 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in Wireless Heterogeneous Sensor Networks	70,000	11-12
GC193 H.T. Mouftah (With J. Calof PI and 8 others)	Private Group (Grant) Understanding the Demise of Nortel Networks	120,000	11-14
GC192 S. Alshebeili PI (With 10 others from from 8 different univ.)	KACST Technology Innovation Center (Grant) RFTONICS: Radio Frequency and Photonics for the e-Society	21,287,000	11-16
GC191 A. Boukerche PI (With 15 others from 8 different univ.)	NSERC Strategic Networks (Grant) DIVA: Developing Next Generation Intelligent Vehicular Networks and Applications	5,000,000	10-15
GC190 H.T. Mouftah PI (With 2 others)	NSERC Research Tools&Instruments (Grant) Testing Facility for Wireless Communication And Networking	96,838	10-11
GC189 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in Wireless Heterogeneous Sensor Networks	70,000	10-11
GC188 H.T. Mouftah	Canada Research Chairs Wireless Sensor Networks	1,400,000	09-16

GC187 H.T. Mouftah	Cisco Collaborative Research Initiative (Grant) Impact of Trust on the Design of a Lightweight Secure Border Gateway Protocol	95,000	09-10
GC186 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in Wireless Heterogeneous Sensor Networks	70,000	09-10
GC185 H.T. Mouftah (With Pin-Han Ho)	NSERC Strategic (Grant) Availability-Aware Survivable Routing Architecture for GMPLS Networks	121,400	08-10
GC184 H.T. Mouftah	Cisco Collaborative Research Initiative (Grant) Detection of Source Address Spoofing in Multi- Domain (across multiple AS) Networks	75,000	08-09
GC183 H.T. Mouftah	University of Ottawa (Grant) Distinguished University Professor program	10,000	08-09
GC182 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in All-Optical Networks	51,000	08-09
GC181 H.T. Mouftah PI (With 13 other co-Appl. from 4 different univ.)	Ontario Research Funds (Grant) WiSense: Wireless Heterogeneous Sensor Networks in the e-Society.	3,074,600	08-13
GC180 H.T. Mouftah PI (With 13 other co-Appl. from 4 different univ.)	Bell Canada/IBM/Alcatel-Lucent/RIM/Freescale/ PacketDNA/WND&EMC (Industry Consortium) WiSense: Wireless Heterogeneous Sensor Networks in the e-Society.	3,074,600	08-13
GC179 Sherman Shen PI (With 15 other Co-Appl. From 4 different univ,)	Ontario Research Funds (Grants) Security and Mobility Over the Global Information Transport Platform.	2,910,800	08-13
GC178 Sherman Shen PI (With 15 other Co-Appl. From 4 different univ.)	Bell Canada/RIM/Open Text Corp/ Spark Matrix (Industry Consortium) Security and Mobility Over the Global Information Transport Platform.	2,910,800	08-13
GC177 H.T. Mouftah (With Pin-Han Ho)	NSERC Strategic (Grant) Availability-Aware Survivable Routing Architecture for GMPLS Networks	147,000	07-08
GC176 H.T. Mouftah	University of Ottawa (Grant) Distinguished University Professor program	10,000	07-08
GC175 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in All-Optical Networks	51,000	07-08
GC174 H.T. Mouftah (With J.P. Yao and Two others)	NSERC Research Tools&Instruments (Grant) Signal Source Analyzer, Microwave Downconverter and Microwave Amplifier	129,966	07-08
GC173 H.T. Mouftah (With A. Boukerche and another person)	NSERC Research Tools&Instruments (Grants) Wireless Multimedia Evaluation Facility	86,814	07-08

GC172 H.T. Mouftah	NSERC Idea to Innovation (Grant) Novel Fault Localization Protocols for All-Optical Networks	118,000	07-08
GC171 H.T. Mouftah (With Pin-Han Ho)	NSERC Strategic (Grant) Availability-Aware Survivable Routing Architecture for GMPLS Networks	152,000	06-07
GC170 H.T. Mouftah	University of Ottawa (Grant) Distinguished University Professor program	10,000	06-07
GC169 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in All-Optical Networks	51,000	06-07
GC168 H.T. Mouftah (With Pin-Han Ho)	NSERC CRD (Grant) A Novel QoS-Aware MPLS-Based Recovery Architecture: MPLS Hybrid Survivable Routing (MHSR)	63,420	06-07
GC167 H.T. Mouftah (With O. Cherkaoui and two others)	Canarie (Contract) User Controlled Lightpath Provisioning Version 2 (UCLPv2)	512,000	05-06
GC166 H.T. Mouftah (With H. Anis)	CITO Student Internship with Peleton Inc.(Grant) Optical Control Systems/Real-time Systems/ Embedded Software	20,000	05-06
GC165 H.T. Mouftah (With H. Anis)	Peleton Inc. (Grant) Optical Control Systems/Real-time Systems/ mbedded Software	10,000	05-06
GC164 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in All-Optical Networks	51,000	05-06
GC163 H.T. Mouftah (With three others)	NSERC Research Tools & Instruments (Grant) Wireless Sensor Networks Evaluation Facility	61,852	05-06
GC162 H.T. Mouftah (with J. Yao and T. Hall)	NSERC Research Tools & Instruments (Grant) Ultrashort-pulsed Laser Source and Optical Auto/crosscorrelator	75,910	05-06
GC161 H.T. Mouftah (With H. Hassanein and C.S. Yeh)	CITO Research Partnership (Grant) Networking Support for Application Development in Wireless Ad Hoc Networks	118,500	04-05
GC160 H.T. Mouftah (With H. Hassanein and C.S. Yeh)	Kingston Software Factory (Grant) Networking Support for Application Development in Wireless Ad Hoc Networks	20,000	04-05
GC159 H.T. Mouftah	Communication Research Centre (Contract) Interoperability Testing for MPLS Traffic	5,000	04
GC158 H.T. Mouftah	NSERC Discovery (Grant) Design Issues in All-Optical Networks	51,000	04-05
GC157 H.T. Mouftah	HRSDC Canada (Grant) Support of Optical Networks Research Laboratory	13,425	04
GC156 H.T. Mouftah (With H. Hassanein	CITO Research Partnership (Grant) Networking Support for Application Development	118,500	03-04

and C.S. Yeh)   in Wireless Ad Hoc Networks

GC155 H.T. Mouftah (With H. Hassanein and C.S. Yeh)	Kingston Software Factory (Grant) Networking Support for Application Development in Wireless Ad Hoc Networks	20,000	03-04
GC154 H.T. Mouftah	NCIT (Grant) Performance Testing and Monitoring Over NCIT*Net	99,000	03-04
GC153 H.T. Mouftah	NSERC Discovery (Grant) Broadband Packet Switching Networks	37,944	03-04
GC152 H.T. Mouftah (With H. Hassanein and C.S. Yeh)	NSERC CRD (Grant) Quality of Service Management in Wireless Mobile Ad Hoc Networks	52,715	03-04
GC151 H.T. Mouftah	Canada Research Chairs Optical Networks	1,400,000	02-09
GC150 H.T. Mouftah	CFI/OIT (Grant) Optical Networking Research Facility	1,174,109	02-06
GC149 H.T. Mouftah	SITE (Initiation Grant) Optical Networks Research	5,000	02-03
GC148 H.T. Mouftah	NSERC CRD (Grant) Routing and Internetworking for Broadband Ad Hoc Networks	32,609	02-03
GC147 H.T. Mouftah	NSERC Research (Grant) Broadband Packet Switching Networks	37,944	02-03
GC146 H.T. Mouftah (with three others)	CITO Operating (Grant) Routing and Internetworking for Broadband Ad Hoc Networks	45,000	02-03
GC145 H.T. Mouftah	Networks 2000 (Grant) Canadian Representation on Networks IMSC	30,000	02-03
GC144 H.T. Mouftah (With H. Hassanein and C.S. Yeh)	NSERC CRD (Grant) Quality of Service Management in Wireless Mobile Ad Hoc Networks	52,715	02-03
GC143 H.T. Mouftah (With H. Hassanein and C.S. Yeh)	CITO Operating (Grant) Quality of Service Management in Wireless Mobile Ad Hoc Networks	85,000	01-02
GC142 H.T. Mouftah (with H. Hassanein and C.-H. Yeh)	Software Factory (Grant) Quality of Service Management in Wireless Mobile Ad Hoc Networks	40,000	01-02
GC141 H.T. Mouftah	Nortel Networks (Agreement) Survivable Optical Networks	55,000	01-02
GC140 H.T. Mouftah	NSERC Research (Grant) Broadband Packet Switching Networks	37,944	01-02
GC139 H.T. Mouftah	GN Nettest (Agreement)	30,000	01-02

ATM Traffic Management Test Suite Development

GC138 H.T. Mouftah	NSERC CRD (Grant) Routing and Internetworking for Broadband Ad Hoc Networks	43,478	01-02
GC137 H.T. Mouftah (with three others)	CITO Operating (Grant) Routing and Internetworking for Broadband Ad Hoc Networks	60,000	01-02
GC136 H.T. Mouftah	Nortel Networks (Agreement) Optical Network Control Architecture	34,000	00-01
GC135 H.T. Mouftah	Nortel Networks (Agreement) Routing and Internetworking for Broadband Ad Hoc Networks	50,000	00-01
GC134 H.T. Mouftah	Nortel Networks (Agreement) Photonic Packet Switching Networks	30,000	00-01
GC133 H.T. Mouftah	Nortel Networks (Agreement) Optical Network Architecture	25,000	00-01
GC132 H.T. Mouftah (with H. Hassanein and C.-H. Yeh)	CITO Operating (Grant) Quality of Service Management in Wireless Mobile Ad Hoc Networks	85,000	00-01
GC131 H.T. Mouftah (with H. Hassanein and C.-H. Yeh)	Software Factory (Grant) Quality of Service Management in Wireless Mobile Ad Hoc Networks	40,000	00-01
GC130 H.T. Mouftah (with 5 others)	CFI/OIT (Grant) A Research Facility for the Next-Generation Internet	3,631,629	00-04
GC129 H.T. Mouftah	Nortel Networks (Agreement) Broadband Ad Hoc Wireless Networks	15,000	00-01
GC128 H.T. Mouftah	NSERC CRD (Grant) Photonic Packet Switching Networks	54,544	00-01
GC127 H.T. Mouftah (with G. Takahara)	CITO Operating (Grant) Network Control Architecture for IP QoS Management	100,000	00-01
GC126 H.T. Mouftah (with G. Takahara)	CITO Operating (Grant) Photonic Packet Switching Networks	30,000	00-01
GC125 H.T. Mouftah (with N.C. Beaulieu)	CITO Operating (Grant) Computer Aided Modeling, Analysis and Design (CAMAD) of Broadband Wireless Links and Networks	9,000	00-01
GC124 H.T. Mouftah	NSERC Research (Grant) Broadband Packet Switching Networks	37,944	00-01
GC123 H.T. Mouftah	NSERC Equipment (Grant) Monitoring and Performance Testing Facility for the Next Generation Internet	110,575	00-01
GC122 H.T. Mouftah	Wind River Systems (Donation)	15,000	00-01

(with N. Manjikian)	Software Development Environment for Embedded Systems (2 user licences)		
GC121 H.T. Mouftah (with N. Manjikian)	Innocor Equipment (Donation) Hardware and Software in Support of Embedded Systems Development (22 kits)	22,000	00-01
GC120 H.T. Mouftah (with S. Gazor)	Nortel Networks (Contract) DTMF and Voice Over IP	14,999	99-00
GC119 H.T. Mouftah	Nortel Networks (Agreement) Photonic Packet Switching Networks	30,000	99-00
GC118 H.T. Mouftah (with R. Ellis and 8 others)	CFI/OIT (Grant) OR/2010: Information Technology for Advanced Healthcare Delivery	3,782,400	99-03
GC117. H.T. Mouftah	NSERC CRD Grant Performance Testing and Monitoring of Broadband Packet Switching Networks	50,000	99-00
GC116. H.T. Mouftah	NSERC Research Grant High-Speed Integrated Packet Switching Networks	33,900	99-00
GC115. H.T. Mouftah (with N.C. Beaulieu)	CITO (Operating Grant) Computer Aided Modeling, Analysis and Design (CAMAD) of Broadband Wireless Links and Networks	36,000	99-00
GC114. H.T. Mouftah (with G. Takahara)	CITO (Operating Grant) (Same as GC126)	100,000	99-00
GC113. H.T. Mouftah (with G. Takahara)	CITO (Operating Grant) (Same as GC125)	30,000	99-00
GC112. H.T. Mouftah	Nortel Networks (Agreement) Photonic Packet Switching Networks	30,000	98-99
GC111. H.T. Mouftah	Nortel Technology (Agreement) Broadband Network Control Architecture and Multimedia Protocols	50,000	98-99
GC110. H.T. Mouftah (with N.C. Beaulieu)	CITO (Operating Grant) (Same as GC124)	36,000	98-99
GC109. H.T. Mouftah	NSERC Research Grant High-Speed Integrated Packet Switching Networks	32,285	98-99
GC108. H.T. Mouftah (with T.P. Martin)	NSERC (Equipment Grant) Testing and Software Development Facility for Broadband Packet Switching Networks	76,012	98-99
GC107. H.T. Mouftah	Nortel (Equipment Donation) Passport 50 ATM Switch	100,000	98-99
GC106. H.T. Mouftah	GNNettest (Equipment Donation) Interwatch IW95000 ATM Network Analyzer	240,000	98-99

GC105. H.T. Mouftah	GNNettest (Agreement) Automated Test Suite Development for Frame-layer Performance Testing	25,000	98-99
GC104. H.T. Mouftah	Newwave Computel Solutions (Agreement) Wireless ATM Networks	15,600	97-98
GC103. H.T. Mouftah	NSERC Research Grant Same as (GC109)	29,350	97-98
GC102. H.T. Mouftah (with T.P. Martin, G. Takahara, and L.L. Campbell)	TRIO Operating Grant Broadband Packet Switching Networks	84,000	97-98
GC101. H.T. Mouftah	TRIO ISRP Grant IP over ATM	25,000	97-98
GC100. H.T. Mouftah	Newbridge Networks Corp. Contract VIVID Performance Testing	165,000	97-98
GC99. H.T. Mouftah (with K.-J. Han)	NSERC/KOSEF Grant Design and Implementation of Wireless ATM Protocols	37,868	97-98
GC98. H.T. Mouftah	Nortel Technology Internship Grant IP (RSVP) over ATM QoS Mediation	10,000	97-98
GC97. H.T. Mouftah	Nortel Technology Agreement IP Central Networking over ATM	20,000	97-98
GC96. H.T. Mouftah	Newbridge Networks Corp. Contract Survey of Large Switch Architectures and Implementation Alternatives Using a High Degree of Optical Technology	10,000	96-97
GC95. H.T. Mouftah	NSERC (CRD Grant) Design and Performance Evaluation of Broadband Network Control Architecture	40,000	96-97
GC94. H.T. Mouftah	TRIO (ISRP Grant) Performance of ATM Network Communication and Routing	40,000	96-97
GC93. H.T. Mouftah	Nortel Technology Internship Grant Performance of ATM Network Communication Routing	10,000	96-97
GC92. H.T. Mouftah	Nortel Technology (Agreement) Broadband Control Architecture	20,000	96-97
GC91. H.T. Mouftah and 3 others	TRIO (Centre of Excellence in Communications) IP over ATM	102,000	96-97
GC90. H.T. Mouftah	NSERC (Research Grant) Same as (GC109)	29,350	96-97
GC89. H.T. Mouftah	CRC Conference Grant Eighteenth Biennial Symposium on Communications	2,000	96-97

GC88.	H.T. Mouftah	BNR Conference Grant Eighteenth Biennial Symposium on Communications	1,500	96-97
GC87.	H.T. Mouftah	TRIO Conference Grant Eighteenth Biennial Symposium on Communications	1,500	96-97
GC86.	H.T. Mouftah	Newbridge (Equipment Donation) Testbed ATM Switches for Real-Time Multimedia	244,000	1996
GC85.	H.T. Mouftah with K.-J. Han	NSERC/KOSEF (Grant) Design and Implementation of Wireless ATM Protocols	37,300	96-97
GC84.	H.T. Mouftah	BNR (Agreement) Broadband Control Architecture	20,000	95-96
GC83.	H.T. Mouftah	NSERC (Research Grant) Computer Communications and Reliable Distributed Processing Systems	29,220	95-96
GC82.	H.T. Mouftah and 3 others	TRIO (Centre of Excellence in Communications) Same as (GC101)	167,000	95-96
GC81.	H.T. Mouftah	NSERC (Research Grant) Same as (GC83)	29,220	94-95
GC80.	H.T. Mouftah	NSERC (Conference Grant) Seventeenth Biennial Symposium on Communications	2,500	94-95
GC79.	H.T. Mouftah	CRC (Communications Research Centre) Conference Grant Seventeenth Biennial Symposium on Communications	2,000	94-95
GC78.	H.T. Mouftah	DREO (Defence Research Establishment Ottawa) Conference Grant Seventeenth Biennial Symposium on Communications	2,000	94-95
GC77.	H.T. Mouftah and 3 others	TRIO (Centre of Excellence in Communications) Same as (GC101)	260,000	94-95
GC76.	H.T. Mouftah with D. Nairn and 4 others	CMC (Equipment Loan) VLSI Test Equipment	26,830	1993
GC75.	H.T. Mouftah	NSERC (Research Grant) Same as (GC83)	29,220	93-94
GC74.	H.T. Mouftah	URIF (Matching Grant) On-Board Satellite Switching Systems	25,000	93-94
GC73.	H.T. Mouftah	TRIO (Centre of Excellence in Communications) Same as (GC101).	232,000	93-94
GC72.	H.T. Mouftah	Spar Aerospace (Contract) Computer-Aided Tools for On-Board Satellite Switching Systems.	25,000	92-93
GC71.	H.T. Mouftah with L.L. Campbell	CITR (Networks of Centres of Excellence in Communications) On-Board Satellite Switching Systems	95,000	92-93

GC70.	H.T. Mouftah with 3 others	TRIO (Centre of Excellence in Communications) Same as (GC101).	180,000	92-93
GC69.	H.T. Mouftah	NSERC (Operating Grant) Same as (GC83).	29,220	92-93
GC68.	H.T. Mouftah	NSERC (Conference Grant) Fourth IEEE International Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Networks	2,700	91-92
GC67.	H.T. Mouftah	BNR (Agreement) ATM Switching Architectures	5,000	91-92
GC66.	H.T. Mouftah with D. Nairn and 5 others	CMC (Equipment Loan) SUN Computers Disk and Memory Upgrade	133,700	1991
GC65.	H.T. Mouftah with L.L. Campbell	CITR (Networks of Centres of Excellence in Communications) Same as (GC71).	71,250	91-92
GC64.	H.T. Mouftah	TRIO (Centre of Excellence in Communications) Same as (GC101).	168,000	91-92
GC63.	H.T. Mouftah	NSERC (Operating Grant) Computer Communications, Multiple Valued Logic and Reliable Digital Systems	24,000	91-92
GC62.	H.T. Mouftah with S.J. Simmons and S.R. Penstone	Queen's (Equipment) Microcomputer Boards for Self Paced Laboratory Environment.	5,000	1991
GC61.	H.T. Mouftah	Dipix Technologies (Grant) Digital Image Processing	12,000	1991
GC60.	H.T. Mouftah	NSERC (Operating Grant) Same as (GC63).	24,000	90-91
GC59.	H.T. Mouftah with L.L. Campbell	CITR (Networks of Centres of Excellence in Communications) Space Based Cellular Communications System.	75,000	90-91
GC58.	H.T. Mouftah with 4 others	NSERC (Strategic Grant) VHDL-Driven Tools for Synthesis, Simulation, Verification and Design-for-Testability of VLSI Systems (Principal Investigator: L.E. Peppard).	95,500	90-91
GC57.	H.T. Mouftah	Dipix Technologies (Grant) Digital Image Processing.	11,300	1990
GC56.	H.T. Mouftah	BNR (Agreement) Same as (GC67).	15,000	90-91
GC55.	H.T. Mouftah with C. Zarowski and 4 others	NSERC (Equipment) SUN Server System.	31,300	1990
GC54.	H.T. Mouftah	NSERC (International Collaborative Res. Grant) Interconnection Networks for Broadband	12,000	90-91

Communication Switching (Dr. A. Jajszczyk).

GC53.	H.T. Mouftah	TRIO (Centre of Excellence in Communications) Same as (GC101)	150,000	90-91
GC52.	H.T. Mouftah	Microtel Pacific Research (Grant) Multimedia Communications Systems and Networks.	8,500	1990
GC51.	H.T. Mouftah with L.E. Peppard and 5 others	CMC (Equipment Loan) SUN Computers Disk and Memory upgrade.	74,300	1990
GC50.	H.T. Mouftah	TRIO (Centre of Excellence in Communications) Broadband Packet Switching Networks.	84,125	89-90
GC49.	H.T. Mouftah with 4 others	NSERC (Strategic Grant) Same as (GC58).	95,500	89-90
GC48.	H.T. Mouftah	BNR (Agreement) Same as (GC67)	15,000	89-90
GC47.	H.T. Mouftah	NSERC (Bilateral Exchange) VLSI Circuits Design and Test.	2,130	1989
GC46.	H.T. Mouftah	NSERC (Operating) Same as (GC63)	24,000	89-90
GC45.	H.T. Mouftah	CMC (Contract) An Automatic Test Pattern Generation Tool.	26,538	1989
GC44.	H.T. Mouftah with 4 others	NSERC (Strategic Grant) Same as (GC58)	85,500	88-89
GC43.	H.T. Mouftah S.E. Tavares	URIF (Matching Grant) Information Network of the Future.	76,479	88-89
GC42.	H.T. Mouftah	NSERC (Operating Grant) Same as (GC63).	22,800	88-89
GC41.	H.T. Mouftah	TRIO (Centre of Excellence in Communications) Digital Communications (Principal Investigator: P.J. McLane; Total: $200 K/year for 7 Researchers).	30,000	88-89
GC40.	H.T. Mouftah	TRIO (Centre of Excellence in Communications) Multimedia Networks (Principal Investigator: N.D. Georganas; Total: $465 K/year for 8 Researchers)	15,500	88-90
GC39.	H.T. Mouftah with L.E. Peppard and 4 others	CMC (Equipment Loan) 3 SUN C3/60, 1 SUN 3/260 and 1 SUN 4/260 Workstations.	200,000	1988
GC38.	H.T. Mouftah	CIGGT (Contract) Safety Considerations in ATCS Type Systems.	17,260	1988
GC37.	H.T. Mouftah S.E. Tavares	Bell Canada (Contract) Information Networking - A Ten Year Forecast.	77,819	1988
GC36.	H.T. Mouftah	NSERC (Operating Grant) Same as (GC63).	22,800	87-88
GC35.	H.T. Mouftah	Northern Telecom Electronics (Equipment Gift)	100,000	1987

An ST8B Integrated Circuit Tester.

GC34.	H.T. Mouftah with J.L. Mason and 4 others	CMC (Equipment Loan) 2-Sun 3/160 - CMC Workstations	150,000	1987
GC33.	H.T. Mouftah	NSERC (Operating Grant) Same as (GC63).	22,800	86-87
GC32.	H.T. Mouftah	NSERC (Senior Industrial Fellowship) with Bell-Northern Research, Ottawa.	9,542	86-87
GC31.	H.T. Mouftah	NSERC (Operating) Design Innovations in Computer Communications and Multiple-valued Logic Design and Implementation.	18,365	85-86
GC30.	H.T. Mouftah J.C. Cartledge	NSERC (Equipment) Digital Transmission for Fiber Optic Communications, Microprocessor Design, and VLSI.	15,508	85-86
GC29.	H.T. Mouftah	Queen's U. (Equipment) Microprocessor Laboratory Development.	1,200	85-86
GC28.	H.T. Mouftah	Queen's U. (Conference) Fifteenth International Symposium on Multiple-Valued Logic.	2,000	1985
GC27.	H.T. Mouftah	NSERC (Operating) Same as (GC31).	18,365	84-85
GC26.	H.T. Mouftah J.C. Cartledge	NSERC (Equipment) Instrumentation for Fiber Optic Transmission, Microprocessor Design and VLSI Testing.	50,894	84-85
GC25.	H.T. Mouftah	NSERC (Conference) Fifteenth International Symposium on Multiple-Valued Logic.	3,100	84-85
GC24.	H.T. Mouftah	Queen's U. (Equipment) Hardcopy Plotting Facility for VLSI Research in Computers and Communications.	3,000	84-85
GC23.	H.T. Mouftah	CIGGT (Contract) Three-valued Logic for Fault-Tolerant Railway Signalling Systems.	23,925	84-85
GC22.	H.T. Mouftah	CIGGT Design and Implementation of Self Checking Binary Systems Using Three Valued Logic.	1,200	84-85
GC21.	H.T. Mouftah	ADMIC Controls Microprocessor Applications in Communications and Control.	500	84-85
GC20.	H.T. Mouftah C.H.R. Campling	Queen's U. (Equipment) Microprocessor Program Development.	2,500	84-85
GC19.	H.T. Mouftah	NSERC (Operating) Same as (GC31).	17,490	83-84

GC18.	H.T. Mouftah S.E. Tavares P.J. McLane	Queen's U. (Equipment) Microprocessor-Based Research Support in Electrical Engineering.	22,280	83-84
GC17.	H.T. Mouftah	DSS (Contract for DND) Modulation Schemes for Magnetic Tape Mass Storage Systems.	1,000	83-84
GC16.	H.T. Mouftah	ADMIC Controls Microprocessor Applications in Communications and Control.	500	83-84
GC15.	H.T. Mouftah	Cataraqui Industrial Control Ltd. Personal Computer Based Data Acquisition Systems.	500	83-84
GC14.	H.T. Mouftah	Queen's U. (Equipment) An Advanced Microcomputer System.	5,500	83-84
GC13.	H.T. Mouftah	NSERC (Operating) Same as (GC31).	15,200	82-83
GC12.	H.T. Mouftah	NSERC (Strategic) Design Innovations in the 2-Wire Full Duplex Data Transmission.	39,643	82-83
GC11.	H.T. Mouftah M.M. Bayoumi	BILD (Equipment) Computer Control System for an Industrial Robot.	52,567	82-83
GC10.	H.T. Mouftah	ESE Ltd. (Equipment Gift) A 6001 Intelligent Network Processor.	5,000	1982
GC9.	H.T. Mouftah	Gandalf Data Ltd. (Equipment Gift) Two TTS400C Transmission Test Sets.	4,000	1982
GC8.	H.T. Mouftah	NSERC (Operating) Same as (GC31).	13,400	81-82
GC7.	H.T. Mouftah	NSERC (Strategic) Same as (GC12).	35,358	81-82
GC6.	H.T. Mouftah	DSS (Contract for Dept. of Commun.) Communications Controller for Word Processors.	14,997	81-82
GC5.	H.T. Mouftah	NSERC (Operating) Same as (GC31).	10,200	80-81
GC4.	H.T. Mouftah	NSERC (Strategic) Same as (GC12).	35,730	80-81
GC3.	H.T. Mouftah	Queen's U. (Research Award) Music Performance Computer Network for the Home of the Future.	2,000	80-81
GC2.	H.T. Mouftah	Northern Telecom Ltd. Design of Microprocessor Based Communications Systems.	2,000	80-81
GC1.	H.T. Mouftah	Queen's U. (Research Award) Design Innovations in Data Transmission	2,500	79-80

for Computer Communications.

POSTGRADUATE SUPERVISION

	Completed	In Progress
Master's	215	9
Ph.D.	70	6
Postdoctoral/Research Associates	54	2

PUBLICATIONS

a)	Books	13
b)	Book Chapters	78
c)	Refereed Journal Papers	308
d)	Refereed Conference Papers	898
e)	Keynote Speeches	38
f)	Research Reports	148
g)	Patents	16
h)	Invention Disclosures	6
i)	Standards	3
j)	Non-Refereed Journal Papers	35
k)	Non-Refereed Conference Papers	279

a) Books:

B13.   H.T. Mouftah, M. Erol-Kantarci and S. Sorour, "Connected and Autonomous Vehicles in Smart Cities", CRC Taylor and Francis, Boca Raton, Florida, USA, 2020, ISBN: 9780367350345 (500 pages).

B12.   H.T. Mouftah, M. Erol-Kantarci and M.H. Rehmani, "Transportation and Power Grid in Smart Cities: Communication Networks and Services, John Wiley and Sons, Chichester, UK, 2019, ISBN: 9781119360087.

B11.   M. Jarrar and H.T. Mouftah, "A Green, Future-Proof Electric Grid: Radio over Fibre Passive Optical Network Integration for the Smart Grid", LAP Lambert Academic Publishing, 2016, ISBN: 978-3-659-96752-8 (66 pages).

B10.   H.T. Mouftah and M. Erol-Kantarci, "Smart Grid: Networking, Data Management and Business Models", CRC Taylor and Francis, Boca Raton, Florida, USA, 2016, ISBN: 9781498719704 (328 pages).

B9.   H.T. Mouftah and B. Kantarci, "Communication Infrastructures for Cloud Computing", IGI Global, Hershey, Pennsylvania, USA, 2014, ISBN13: 9781466645226 (426 pages).

B8.   K. Maamoun and H.T. Mouftah, "Survivability Issues in Optical and Optical Wireless Access Networks", LAP Lambert Academic Publishing, 2012, ISBN: 978-3-659-26475-7.

B7.   I.S. Shah, M. Ilyas and H.T. Mouftah, "Pervasive Communications Handbook", CRC Press, Boca Raton, Florida, 2011, ISBN: 978-1-4200-5109-4 (500 pages).

B6.   K. Maamoun and H.T. Mouftah, "Survivable IP Over Optical Transport Networks", LAP Lambert Academic Publishing, 2010, ISBN 978-3-8433-5707-4 (176 pages).

B5.   Jun Zheng and H.T. Mouftah, "Optical WDM Networks- Concepts and Design Principles", IEEE Press/Wiley and Sons, New York, 2004, ISBN 0-4716-7170-3 (287 pages).

B4.   M. Ilyas and H. T. Mouftah, "Handbook of Optical Communication Networks", CRC Press, BocaRaton, Florida, 2003, ISBN 0-8493-1333-3 (488 pages).

B3.   H.T. Mouftah and P.-H. Ho, "Optical Networks- Architecture and Survivability", Kluwer Academic Publishers, 2003, ISBN 1-4020-7196-5.

B2.   H.T. Mouftah and J.M. Elmirghani, "Photonic Switching Technology - Systems and Networks", IEEE Press, N.J., 1998, ISBN 0-7803-4707-2.

B1.   H.T. Mouftah, "Microprocessors and Microcomputers, Principles, Design and Applications", first edition published by the Engineering Society, Queen's University at Kingston, September 1983. Second edition published by Jackson Press Ltd., Kingston, February 1985 and August 1986.

b)   **Book Chapters:**

BC78.   W. Mardini, Y. Khamayseh and H.T. Mouftah, "Novel Predictive management algorithm for home appliances in a Smart grid", Frontiers Energy Research, first published 21 February 2020, then appeared as Chapter 15 in "Advances in Energy Research: 2nd Edition", Vide Leaf, Hederabad, India, 2021, ISBN: 978-93-90014-32-3.

BC77.   M. Sadeghi, M. Erol-Kantarci and H.T. Mouftah, "Connected and Autonomous Electric Vehicle Charging Infrastructure Integration to Microgrids in Future Smart Cities", appeared in "Connected and Autonomous Vehicles in Smart Cities", Chapter 1, edited by H.T. Mouftah, M. Erol-Kantarci and S. Sorour, CRC Taylor and Francis, Boca Raton, Florida, USA, 2020, ISBN: 9780367350345.

BC76.   B. Vaidya and H.T. Mouftah, "Cyber Security Considerations for Automated Electro-Mobility Services in Smart Cities", appeared in "Connected and Autonomous Vehicles in Smart Cities", Chapter 17, edited by H.T. Mouftah, M. Erol-Kantarci and S. Sorour, CRC Taylor and Francis, Boca Raton, Florida, USA, 2020, ISBN: 9780367350345.

BC75.   A. Chehri and H.T. Mouftah, "Localization for Vehicular Ad Hoc Network and Autonomous, Vehicles, Are We Done Yet?", appeared in "Connected and Autonomous Vehicles in Smart Cities", Chapter 11, edited by H.T. Mouftah, M. Erol-Kantarci and S. Sorour, CRC Taylor and Francis, Boca Raton, Florida, USA, 2020, ISBN: 9780367350345..

BC74.   B. Vaidya and H.T. Mouftah, "Deploying Wireless Charging Systems for Connected and Autonomous Electric Vehicles", appeared in "Connected and Autonomous Vehicles in Smart Cities", Chapter 14, edited by H.T. Mouftah, M. Erol-Kantarci and S. Sorour, CRC Taylor and Francis, Boca Raton, Florida, USA, 2020, ISBN: 9780367350345.

BC73.   B. Vaidya and H.T. Mouftah, "Connected Autonomous Electric Vehicles as Enablers for Low-carbon Future", appeared as Chapter 12 in "Energy Efficiency in Smart Grids", edited by Alfredo Vaccaro, Ahmed Faheem Zobaa, Prabhakar Karthikeyan Shanmugam and Kannaiah Sathish Kumar, IntechOpen, London, UK, March 2019, DOI: 10.5772/intechopen.84287, ISBN 978-1-78923-892-1.

BC72.   B. Vaidya and H.T. Mouftah, "Protecting Privacy of Electric Comsumers in the Smart City", appeared in "Transportation and Power Grid in Smart Cities: Communication Networks and Services", Chapter 20, edited by H.T. Mouftah, M. Erol-Kantarci and M.H. Rahmani, John Wiley and Sons, Chichester, UK, 2019, ISBN: 9781119360087.

BC71.   D. Said and H.T. Mouftah, "Channel Access Modelling for EV Charging/Discharging Service through Vehicular Ad-hoc Networks (VANETs) Communications", appeared in "Transportation and Power Grid in Smart Cities: Communication Networks and Services", Chapter 16, edited by H.T. Mouftah, M. Erol-Kantarci and M.H. Rahmani, John Wiley and Sons, Chichester, UK, 2019, ISBN: 9781119360087.

BC70.   A. Mousavian, M. Erol-Kantarci and H.T. Mouftah, "Cyber-Security and Resiliency of Transportation and Power Systems in Smart Cities", appeared in "Transportation and Power

Grid in Smart Cities: Communication Networks and Services", Chapter 19, edited by H.T. Mouftah, M. Erol-Kantarci and M.H. Rahmani, John Wiley and Sons, Chichester, UK, 2019, ISBN: 9781119360087.

BC69.   M.M. Hasan and H.T. Mouftah, "Cyber-Physical Vulnerabilities of Wireless Sensor Networks in Smart Cities", appeared in "Security and Privacy in Cyber-Physical Systems: Foundations and Applications", Chapter 3, pp. 263-280, edited by H. Song, G.A. Fink, G.L. Rosner and S. Jeschke, John Wiley-IEEE Press, USA, August 2017, ISBN: 9781119226055.

BC68.   A.M. Ahmed, A.A. Alkheir and H.T. Mouftah, "Spectrum-Aware Routing in Cognitive Radio Vehicular Ad Hoc Networks (CR-VANETs): Challenges and Solutions", appeared in "Spectrum Sharing in Wireless Networks: Fairness, Efficiency, and Security", edited by F. Hu, S. Kumar and J.D. Matyjas, Taylor and Francis LLC, CRC Press, December 2016, ISBN: 9781498726351.

BC67.   B. Vaidya and H.T. Mouftah, "Public Key Cryptosystems for Smart Grid Infrastructure", appeared in "Security Solutions and Applied Cryptography in Smart Grid Communications", edited by M.A. Ferrag and A. Ahmim, IGI Global, Hershey, Pennsylvania, USA, November 2016, ISBN13: 9781522518297.

BC66.   H. Ghafghazi, A. Elmougy, H.T. Mouftah and C. Adams, "Security and Privacy in LTE-based Public Safety Network", appeared in "Wireless Public Safety Networks Vol. 2", Chapter 11, pp. 317-360, edited by D. Camara and N. Nikaein, ISTE Press-Elsevier, London, UK, 2016, ISBN: 978-1-78548-052-2.

BC65.   A.A. Alkheir and H.T. Mouftah, "Cognitive Radio for Public Safety Applications: A Resilient Wireless Networking Paradigm", appeared in "Public Safety Networks Vol. 2", Chapter 10, pp. 295-316, edited by D. Camara and N. Nikaein, ISTE Press-Elsevier, London, UK, 2016, ISBN: 978-1-78548-052-2.

BC64.   B. Kantarci and H. T. Mouftah, "Sensing as a Service in Cloud-Centric Internet of Things Architecture", appeared in "Enabling Real-Time Mobile Cloud Computing Through Emerging Technologies", Chapter 3, pp. 83-115, edited by T. Soyata, IGI Global, Hershey, Pennsylvania, USA, September 2015, ISBN: 9781466686625.

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KS37.   H.T. Mouftah, "Technology Trends for Connected and Autonomous Electric vehicles in Smart Cities", **Invited Distinguished Speaker**, IEEE International Conference on Computing, Networking and Communications (ICNC2020), Big Island, Hawaii, February 2020.

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KS4.   H.T. Mouftah, "Computer Aided Tools for Planning and Design of the Optical Internet", **Invited Keynote Speaker**, 2001 International Symposium on Performance Evaluation on Computer and Telecommunications Systems (SPECTS'2001) and Summer Computer Simulation Conference (SCSC'2001), July 2001, Orlando, Florida.

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NJ14.   A.Safwat and H.T. Mouftah, "Guest Editorial: 4G Network Technologies for Mobile Telecommunications", IEEE Network, Vol. 19, No. 5, September 2005, pp. 3-4.

NJ13.   M.Brunner, H.T. Mouftah and M. Ulema, "Guest Editorial: Management of Optical Networks and Services", Feature Topic on Management of Optical Networks and Services, IEEE Communications Magazine, January 2004, pp. 34-35.

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j)   Non-Refereed Conference Papers:

NC279.   H.T. Mouftah, Member of a Panel Discussion on "Education and Innovation in Energy Systems Engineering, Challenges, Quality Controls, Standards, Ethics, Education Chain, and Graduate Studies", Panel 1, International Conference on Smart Energy Grid Engineering (SEGE'18), Oshawa, Ontario, August 2018.

NC278.   H.T. Mouftah, "Machine to Machine Communications in the Smart Grid", presented at Egypt Can Conference, Hurghada, Egypt, December 2016.

NC277.   H.T. Mouftah, "Sensor Networks for Connected Electric Vehicles in Smart Cities", Panel Discussion on "History of Sensor Networks", IEEE Global Telecommunications Conference (Globecom2016), Washington, DC, December 2016.

NC276.   H.T. Mouftah, "Connected Electric Vehicles in Smart Cities", Proceedings 2016 INCOSE Canada Conference on Systems Engineering, Ottawa, November 2016, pp. 16-17.

NC275.   H.T. Mouftah, presented a public demonstration of the SecCharge – a mobile and web software application platform that addresses the problem of charging electric vehicles in a secured smart grid environment developed at the University of Ottawa, August 2016.

NC274.   A.M. Ahmed, A. Abu-Alkheir and H.T. Mouftah, "Decision-Based Cooperative Spectrum Sensing Using Random Medium Access", Proceedings 2016 NSERC-DIVA Workshop, Ottawa, February 2016.

NC273.   S. Siddiqui, D. Makrakis and H.T. Mouftah, "Priority Based Vehicular Visible Light Communication Network", Proceedings 2016 NSERC-DIVA Workshop, Ottawa, February 2016.

NC272.   P. MacKinnon, P. Chapman and H.T. Mouftah, "Nortel: The Untold Technology Storey-Lessons Learned from Corporate Failure", presented at the University of Ottawa National Engineering Month Keynote Seminar, Ottawa, March 2015.

NC271.   H.T. Mouftah, "Connected Electric Vehicles in Smart Cities", Proceedings 2014 NSERC-DIVA Workshop, Ottawa, November 2014.

NC270.   T. Liang, Z. Wang and H.T. Mouftah, "Performance Evaluation of a LEO Satellite System for ITS", Proceedings 2014 NSERC-DIVA Workshop, Ottawa, November 2014.

NC269.   A.M. Ahmed, A. Abu-Alkheir and H.T. Mouftah, "Spectrum Sensing Techniques for CR-VANETs", Proceedings 2014 NSERC-DIVA Workshop, Ottawa, November 2014.

NC268.   S. Siddiqui, D. Makrakis and H.T. Mouftah, "Vehicular Visible Light Communication for Intelligent Transport System Application", Proceedings 2014 NSERC-DIVA Workshop,

Ottawa, November 2014.

NC267. H.T. Mouftah, "Wireless Sensor Networks: Lessons Learned and Future Directions", member of a Panel Discussion on Future trends in Wireless Sensor Networks, ACM SIGSIM QoS and Security for Wireless and Mobile Networks (Q2SWinet'14), Montreal, Canada, September 2014.

NC266. H.T. Mouftah, "WiSense Research Program Overview", presented at the 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC265. H.T. Mouftah, "Connected Electric Vehicles in the Smart Grid", presented at the 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC264. T. Du, Z. Wang, D. Makrakis and H.T. Mouftah, "Adaptive Preamble Padding with Retransmission Control Technique for Improving ZigBee Packet Transmission under Wi-Fi Interference", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014 **(Honorary Mention Poster Award).**

NC263. T. Du, Z. Wang, D. Makrakis and H.T. Mouftah, "Adaptive Transmit Power Adjustment Technique for Improving ZigBee Packet Transmission Energy Efficiency under Wi-Fi Interference", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC262. E. Abdelmoghith and H.T. Mouftah, "Time-based OTPs Mechanism for Authentication between Plug-in Electric Vehicle PEV and EVSE", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC261. A.A. Alkheir and H.T. Mouftah, "Optimizing Cooperative Spectrum Sensing for RF-Powered Cognitive Radio Networks", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC260. B. Vaidya, D. Makrakis and H.T. Mouftah, "Mutual Authentication in Mobile RFID based Smart Grid Network", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC259. H. Ghafghazi, A. El Mougy and H.T. Mouftah, "Enhancing Privacy of LTE-based Public Safety Networks", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC258. Y. Nasrallah, I. Al-Anbagi and H.T. Mouftah, "A Realistic Analytical Model of IEEE 802.11p for Wireless Access in Vehicular Networks", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC257. M.M. Gad and H.T. Mouftah, "Mining Wi-Fi Spectrum Usage Data: Techniques and Applications", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC256. N. Yaagoubi and H.T. Mouftah, "Shapley Concept-based fairness within Demand Response in Smart Grid", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC255. M. AlOtaibi, H.T. Mouftah and A. Boucherche, "Joint Unicast and Broadcast Protocols for Efficient Data Dissemination in VANets", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC254. T. Liang, Z. Wang and H.T. Mouftah, "Performance Analysis and Evaluation of a novel 2-tier communication network based on ITS and LEO Satellites system", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014 **(Third Best Poster Award)**.

NC253. W. Xie, I. Al-Anbagi and H.T. Mouftah, "Finite State Machine Performance Analysis of Power Consumption in Residential and Commercial Buildings", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014.

NC252. M.U. Mahfuz, D. Makrakis and H.T. Mouftah, "An Investigative Analysis on Concentration-Encoded Subdiffusive Molecular Communication in Nanonetworks", Proceedings, 6th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2014 **(Second Best Poster Award)**.

NC251.   J. Calof, L. Mirabeau, G. Richards, H.T. Mouftah, P. MacKinnon, P. Chapman and P.M. Vasudev, "Nortel and the Lessons to be Learned", Tech Tuesday, Ottawa, 3 June 2014.

NC250.   J. Calof, L. Mirabeau, G. Richards, H.T. Mouftah, P. MacKinnon, P. Chapman and P.M. Vasudev, "Overview of the Demise of Nortel Networks and Key Lessons Learned", Telfer School of Management, University of Ottawa, Ottawa, 17 March 2014.

NC249.   H.T. Mouftah, "Advanced Techniques for Wireless Sensor Networks in Delay Critical Smart Grid Monitoring Applications", Canada-Korea Workshop, Seoul, Korea, November 2013.

NC248.   H.T. Mouftah, "Advances in Inter- and Intra-Vehicle Communications: Connected Electric Vehicles", Proceedings 2013 NSERC-DIVA Workshop, Ottawa, November 2013, pp. 11.

NC247.   Z. Wang, D. Makrakis and H.T. Mouftah, "Optimization of threshold call admission for multi-class ITS traffic under QoS constraints in LEO mobile satellite systems", Proceedings 2013 NSERC-DIVA Workshop, University of Ottawa, Ottawa, November 2013, pp. 257.

NC246.   A. Ahmed and H.T. Mouftah, "CR-VANETs: Cognitive Radio Vehicular Ad Hoc Networks", Proceedings 2013 NSERC-DIVA Workshop, University of Ottawa, Ottawa, November 2013, pp. 255.

NC245.   M.Rahman, N.U. Ahmed and H.T. Mouftah, "Traffic Optimization in WSN-based Intelligent Transportation System", Proceedings 2013 NSERC-DIVA Workshop, University of Ottawa, Ottawa, November 2013, pp. 256.

NC244.   H.T. Mouftah, "WiSense Research Program Overview", presented at the 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013.

NC243.   Md. M. Hasan and H.T. Mouftah, "Security and Privacy Challenges in a Smart City", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 8-12.

NC242.   A. El-Mougy and H.T. Mouftah, "Situational Awareness in Public Safety Networks", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 13-17.

NC241.   B. Kantarci, N. Zaker, M. Erol-Kantarci and H.T. Mouftah, "An Integrated Wireless Sensor Network and EPON Architecture for Smart Grid Monitoring", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 25-32.

NC240.   E.M. Abdelmoghith and H.T. Mouftah, "A simple Lightweight Data Compression Algorithm for Wireless Sensor Networks", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 33.

NC239.   I. Al-Anbagi, M. Erol-Kantarci and H.T. Mouftah, "Adaptive GTS Allocation for WSNs in Smart Grid Environments", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 34.

NC238.   M.G. Khair, B. Kantarci and H.T. Mouftah, "Time and Event Driven Threshold-based Distributed Discovery Service for the EPCglobal Network", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 35.

NC237.   T. Refaat and H.T. Mouftah, "Future Applications of the Internet of Things with Resilience", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 39.

NC236.   M.M. Gad, A.A. Farid and H.T. Mouftah, "A Fast Position-Based Routing Algorithm for Large-Scale Wireless Cognitive Radio Networks", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 40 (**First Best Poster Award)**.

NC235,   H. Ghafghazi, A. El-Mougy and H.T. Mouftah, "Privacy Issues and Challenges In LTE-based Public Safety Networks", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 41.

NC234.   M.U. Mahfuz, D. Makrakis and H.T. Mouftah, "Signal Detection in Concentration-Encoded Molecular Communication", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 42.

NC233.   M. Jarrar, K. Maamoun and H.T. Mouftah, "Remote control and monitoring of home appliances", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa,

August 2013, pp. 43.

NC232.   B. Vaidya, D. Makrakis and H.T. Mouftah, "Efficient and Secure V2G Communications in Smart Grid Environment", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 44.

NC231.   A. Chehri and H.T. Mouftah, "A Self Organizing Framework for Energy Saving in 3G/LTE Networks", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013.

NC230.   Z. Wang, T. Du, Y. Tang, D. Makrakis and H.T. Mouftah, "ACK with Interference Detection Technique for ZigBee Packet Transmission under Wi-Fi Interference", Proceedings, 5th Annual WiSense Workshop, University of Ottawa, Ottawa, August 2013, pp. 50 (**Third Best Poster Award**).

NC229.   H.T. Mouftah, "First Responder Test-Bed_i-Canada and University of Ottawa", presented at i-Canada Summit, The SevenHabits of Highly Intelligent Communities, Toronto, June 2013.

NC228.   H.T. Mouftah, "WiSense Research Program Overview", presented at 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012.

NC227.   M. Erol-Kantarci and H.T. Mouftah, "Wireless Rechargeable Sensor Networks in the Smart Grid", presented at 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012.

NC226.   M. Erol-Kantarci and H.T. Mouftah, "Sustainable Wireless Sensor Networks for Long-Term Smart Grid Applications", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 7 (**Honorary Mention Poster Award**).

NC225.   M.G. Khair and H.T. Mouftah, "Hierarchical Distributed Discovery Services for Multi Supply Chain", Proceedings2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 8.

NC224.   M.U. Mahfuz, D. Makrakis and H.T. Mouftah, "Communication at the Nanoscale: Opportunities and Challenges of Molecular Communication in Nanonetworks", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 12 (**Honorary Mention Poster Award**).

NC223.   M.M. Gad and H.T. Mouftah, "A Genetic Algorithm Based Routing Protocol for Multi-Band Cognitive Radio Networks", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 21.

NC222.   B. Vaidya, D. Makrakis and H.T. Mouftah, "Security Mechanism for Routing in Advanced Metering Infrastructure (AMI) Networks, Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 22.

NC221.   N. Zaker, B. Kantarci, M. Erol-Kantarci, H.T. Mouftah and M. Maier, "Fiber-Wireless Sensor Network Integration (Fi-WSN) For the Smart Grid", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 23.

NC220.   A. Dahbi and H.T. Mouftah, "A Fully Distributed, Scalable and Secure DHT-based ONS Architecture", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 24.

NC219.   I. Al-Anbagi, M. Erol-Kantarci and H.T. Mouftah, "Low-Latency WSN Communication Schemes for Condition Monitoring Applications in the Smart Grid", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 25 (**Honorary Mention Poster Award**).

NC218.   Y. Nasrallah, M. Khanafer, M. Guennoun and H.T. Mouftah, "Priority-Based CCA Periods for Efficient and Reliable Communications in Wireless Sensor Networks", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 26 (**Second Best Poster Award**).

NC217.   B. Kantarci, N. Naas, and H.T. Mouftah, "EPON-LTE-A Deployment for Smart Heterogeneous Environments under Metro-Access Convergence", Proceedings2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 27.

NC216.   A. Jedda, M. Khair and H.T. Mouftah, "A Divide-and-Conquer Approach for the Connected Coverage Problem in Wireless RFID/Sensor Networks", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 28.

NC215.   A. Chehri and H.T. Mouftah, "Coverage Optimization of Femtocells in Next Generation Network with Co-Channel Interferences", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 29.

NC214.   A. Chehri and H.T. Mouftah, "On the Frequency Reuse (FR) Techniques for the Uplink of Multicellular 4G Networks", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 30.

NC213.   Z. Wang, T. Du, G. Ji, D. Makrakis and H.T. Mouftah, "Design and Development of Novel Performance Improvement Techniques for ZigBee Packet Transmission under Wi-Fi Interference", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 31.

NC212.   A.A. Khan and H.T. Mouftah, "Secured Web Services for Energy Management of Smart Home in a Smart Grid Environment", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 33.

NC211.   B. Ying, D. Makrakis, W. Wen and H.T. Mouftah, "A protocol for Sink Location Privacy Protection in Wireless Sensor Networks", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012, pp. 32.

NC210.   A. AlSanad, J.H. Sarker and H.T. Mouftah, "Performance Analysis and Optimization of Multiple Channel Access Mechanisms for Distributed Wireless Ad Hoc and Sensor Networks", Proceedings 2012 WiSense Workshop, University of Ottawa, Ottawa, September 2012.

NC209.   M. Erol-Kantarci and H.T. Mouftah, "Plug-in Electric Vehicle Charging Control via IEEE 802.11s based Wireless Mesh Networks", Proceedings 2012 NSERC-DIVA Workshop, University of Ottawa, Ottawa, August 2012, pp. 161-165.

NC208.   M.G. Khair and H.T. Mouftah, "Dynamic IP Address Assignment Architecture for Wireless Heterogeneous sensor Networks", Proceedings 2012 NSERC-DIVA Workshop, University of Ottawa, Ottawa, August 2012, pp. 208.

NC207.   M. Erol-Kantarci and H.T. Mouftah, "Proving Service Differentiation at the Plug-in Electric Vehicle Charging Stations", Proceedings 2012 NSERC-DIVA Workshop, University of Ottawa, Ottawa, August 2012, pp. 245.

NC206.   B. Vaidya, D. Makrakis and H.T. Mouftah, "Cyber Security Challenges and Solutions for Vehicle-to-Grid Systems", Proceedings 2012 NSERC-DIVA Workshop, University of Ottawa, Ottawa, August 2012, pp. 225.

NC205.   H.T. Mouftah, "Mobile Internet for the Emerging Economies- A Working Statement", Member of a Panel Discussion on Mobile Internet for the Emerging Economies at the 22nd Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2011), Toronto, Canada, September 2011.

NC204.   H.T. Mouftah, "Wireless Sensor Networks Architecture for Intelligent Transportation Systems", presented at 2011 NSERC-DIVA Workshop, University of Ottawa, Ottawa, September 2011.

NC203.   M. Khanafer, M. Guennoun and H.T. Mouftah, "Intrusion Detection in WSN-based Intelligent Transportation Systems", Proceedings 2011 NSERC-DIVA Workshop, University of Ottawa, Ottawa, September 2011, pp. 65-70, (and pp. 98).

NC202.   B. Ying, D. Makrakis and H.T. Mouftah, "Dynamic Mix-zone for Location Privacy Preservation in VANETs", presented at 2011 NSERC-DIVA Workshop, University of Ottawa, Ottawa, September 2011 (pp. 91).

NC201.   H.T. Mouftah, "WiSense Research Program Overview", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC200.   M. Erol-Kantarci and H.T. Mouftah, "Opportunities for Wireless Technologies in the Smart Grid Communications Arena", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC199.   B. Ying, D. Makrakis and H.T. Mouftah, "Concealing of the Sink Location in WSNs by Artificially Homogenizing Traffic Intensity, presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC198.   A. Chehri and H.T. Mouftah, "Using Artificial Intelligence in Emerging Power Systems", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC197.   K.A. Ali, J.H. Sarker and H.T. Mouftah, "Opportunistic Resource Allocation Scheme for Sensor Data Traffic over 4G Networks, presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC196.   M. Ebada and H.T. Mouftah, "Traffic Splitting Protocol for Multipath Routing in Wireless Sensor Networks, presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC195.   M. Abousharkh and H.T. Mouftah, "Web Services Enabled Sensors Based Patient Monitoring Framework, presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC194.   M. Khair, O. Asad and H.T. Mouftah, "The Integration of Wireless Sensor Networks with EPCglobal Network, by presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC193.   A. Alsanad, J.H. Sarker and H.T. Mouftah, "Analysis of the Channel Access Mechanism in Distributed Wireless Ad Hoc and Sensor Networks", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC192.   B. Vaidya, D. Makrakis and H.T. Mouftah, "Public key infrastructure for Multi-domain V2G Infrastructure", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC191.   Y. Nasrallah, M. Guennoun and H.T. Mouftah, "Energy Efficient Battery Aware MAC protocol for WSN", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC190.   A.A. Khan and H.T. Mouftah, "Web Services for Smart Homes Energy Management in a Smart Grid Environment", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC189.   M. Erol-Kantarci and H.T. Mouftah, "Wireless Sensor Networks for Demand-side Smart Grid Applications", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC188.   M. Erol-Kantarci, J.H. Sarker and H.T. Mouftah, "Communication-based Admission Control for Plug-in Hybrid Electric Vehicles in the Smart Grid", presented at 2011WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC187.   M. Erol-Kantarci, B. Kantarci and H.T. Mouftah, "Reliable Overlay Topology Design for Interconnected Microgrids", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC186.   I. Al-Anbagi, H.T. Mouftah and M. Erol-Kantarci, "Design of a Delay-Sensitive WSN for Wind Generation Monitoring in the Smart Grid", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC185.   B. Kantarci and H.T. Mouftah, "Energy-Efficient FiWi for Smart Heterogeneous Environments, presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC184.   J.H. Sarker and H.T. Mouftah, "Reliability Improvements of RFID Systems under the Random Packet Destruction DoS Attack", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC183.   M.M. Gad and H.T. Mouftah, "On the Connectivity of Cognitive Wireless Sensor Networks", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September

2011.

NC182. M.M. Gad, H.T. Mouftah, M. Bennai and J. Sydor, "A MATLAB Toolbox for the CORAL Development Platform", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011 (**Third Best Poster Award**).

NC181. M.U. Mahfuz, D. Makrakis and H.T. Mouftah, "A Comprehensive Study of Concentration-Encoded Unicast Molecular Communication with Binary Pulse Transmission", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC180. Z. Wang, Y. Tang, T. Du, D. Makrakis and H.T. Mouftah, "Experimental studies of performance improvement techniques for ZigBee communications under Wi-Fi interference", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011.

NC179. M. Khanafer, M. Guennoun and H.T. Mouftah, "An Efficient Adaptive Backoff Algorithm for Wireless Sensor Networks", presented at 2011 WiSense Workshop, University of Ottawa, Ottawa, September 2011 (**First Best Poster Award**).

NC178. H.T. Mouftah, "WiSense: Wireless Heterogeneous Sensor Networks in the e-Society", NRC-uOttawa WiSense Workshop, Ottawa, March 2, 2011.

NC177. K.A. Ali and H.T. Mouftah, "Heterogeneous Tele-health System- Architecture and Protocols", NRC-uOttawa WiSense Workshop, Ottawa, March 2, 2011.

NC176. M. Erol-Kantarci and H.T. Mouftah, "Wireless Sensor Networks (WSNs) in the Smart Grid", NRC-uOttawa WiSense Workshop, Ottawa, March 2, 2011.

NC175. M. Gad and H.T. Mouftah, "Cognitive Radio for Wireless Sensor Networks", NRC-uOttawa WiSense Workshop, Ottawa, March 2, 2011.

NC174. H.T. Mouftah, "Wireless Sensor Networks for Smart Grid Applications", Proceedings of the Association of Egyptian American Scholars Bi-Annual Conference, Cairo, Egypt, December 2010, pp. 69.

NC173. H.T. Mouftah, "Convergence of Optical and Wireless Networking Technologies", Member of a Plenary Session Panel on High-speed Networking Technologies: Components –Systems – Services, HONET2010 Conference, Cairo, Egypt, December 2010.

NC172. H.T. Mouftah and M. Erol-Kantarci, "Wireless Sensor Networks for the Smart Power Grid", Poster Canada Research Chairs Thinking Ahead for a Strong Future Conference, Toronto, Nov. 2010.

NC171. H.T. Mouftah, "Wireless Sensor Networks: Landscape Scan of Disruptive Technologies", Member of a Panel on Landscape Scan of Disruptive Technologies, Privacy, Security and Trust Conference (PST2010), Ottawa, Ontario, August 2010.

NC170. H.T. Mouftah, "WiSense Research Program Report", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC169. R.F.Z. Henry and H.T. Mouftah, "CEMA: Comfort and Energy Management Control for a Smart Home", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC168. K. Ali and H.T. Mouftah, "Overlaying Wireless Sensor Body Area Networks over UMTS Cellular Systems", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC167. J.R. Gallardo, D. Makrakis and H.T. Mouftah, "On Modeling Contention-based MAC Protocols Using Markov Chains", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC166. J.H. Sarker and H.T. Mouftah, "Improving the Security of Wireless Ad Hoc and Sensor Networks under DoS Attack", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC165. M.U. Mahfuz, D. Makrakis and H.T. Mouftah, "Spatiotemporal Distribution and Modulation Schemes for Medium-to-Long Range Molecular Communication", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010 (**Second Best Poster Award**).

NC164.   Z. Wang, Y. Tang, D. Makrakis and H.T. Mouftah, "Clear Channel Assessment Study for ZigBee network Under WLAN Interference", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC163.   M.M. Gad and H.T. Mouftah, "Routing Protocols for Cognitive Wireless Sensor Networks", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC162.   Sk. Md. M. Rahman and H.T. Mouftah, "An Efficient Key Agreement Protocol for WSNs Using Bilinear Pairing Functions and Chinese Remainder Theorem", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC161.   Y. Nasrallah and H.T. Mouftah, "Gateway Design for Zigbee-WiFi Internetworking", resented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC160.   A.A. Khan and H.T. Mouftah, "Using Web Services for Accessing Smart Home Elements in Smart Grid Environment", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC159.   M. Erol-Kantarci and H.T. Mouftah, "Wireless Sensor Networks for Residential Energy Management in Smart Grids", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC158.   B. Qela and H.T. Mouftah, "Synergy of Wireless Sensor Networks, Ambient Intelligence and Artificial Intelligence for Energy Management in Smart Homes and Buildings", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC157.   O. Asad and H.T. Mouftah, "Smart Grid Applications Using Sensor Web Services", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC156.   A. Chehri and H.T. Mouftah, "Performance Evaluation of UWB-based Body Sensor Network for Remote Patient Monitoring", presented at 2010 WiSense Workshop, Queen's University, Kingston, May 2010.

NC155.   H.T. Mouftah, "Wireless Sensor Networks for Smart Grid Applications", **Invited Paper**, CMC Research Workshop on Power Sources for Sensor Networks, Toronto, Ontario, May 7th, 2010.

NC154.   H.T. Mouftah, "Wireless Research Program Overview", presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC153.   M.M. Gad and H.T. Mouftah, "Cognitive Radio for Wireless Sensor Networks", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC152.   "J.R. Gallardo, D. Makrakis and H.T. Mouftah, "Analytical performance evaluation of MAC Protocols", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC151.   R.F.Z. Henry and H.T. Mouftah, "A Generic Wireless Sensor Network System for Comfort Control in Homes", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC150.   K.A. Ali, J.H. Sarker and H.T. Mouftah, "Urgency-based MAC Protocol for Medical Wireless Sensor Body Area Networks", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC149.   J.H. Sarker and H.T. Mouftah, "Power Efficiency of Multiple Receiving Nodes Half-Duplex Slotted ALOHA with Multi-Packet Reception Capability", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC148.   Y. Nasrallah and H.T. Mouftah, "In-home and personal healthcare system", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC147.   J.Ruiz, J.R. Gallargo, D. Makrakis and H.T. Mouftah, "Introducing Quality of Service (QoS) in Wireless Sensor Networks", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC146.   M.U. Mahfuz, D. Makrakis and H.T. Mouftah, "Effects of Transmitter Characteristics on Performance of TH-PPM UWB Systems", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC145.   M.U. Mahfuz, D. Makrakis and H.T. Mouftah, "Performance Evaluation and Signal

Processing with Multiple GPS Receivers", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC144. A. AlSanad, J.R. Gallardo and H.T. Mouftah, "Reducing e2e latency and increasing efficiency in multi-hop networks by using destination-initiated routing, admission control and reservations", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC143. M. Khanafer and H.T. Mouftah, "WSN Architectures for Intelligent Transportation Systems", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC142. B. Qela and H.T. Mouftah, "Wireless Sensor Networks for Energy Management in Intelligent Buildings", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC141. M. Ebada, J.R. Gallardo and H.T. Mouftah, "Multipath Routing for Wireless Sensor Networks: a Hybrid Between Source Routing and Diffusion Techniques", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC140. Z. Wang, D. Makrakis and H.T. Mouftah, "WSN Testbed Development and Performance Study For Coexistence of ZigBee and WLAN Networks", Poster presented at 2009 WiSense Workshop, University of Ottawa, Ottawa, July 2009.

NC139. H.T. Mouftah, "Optical Networks Research Overview", Royal Institute of Technology (KTH), Stockholm, Sweden, May 2009.

NC138. H.T. Mouftah, "Planning GMPLS Transport Networks with Conversion and Regeneration Capabilities", MANGO Workshop on Planning GMPLS Networks, Royal Institute of Technology (KTH), Stockholm, Sweden, May 2009.

NC137. N. Naas and H.T. Mouftah, "Huristics for Planning GMPLS Transport Networks with Conversion and Regeneration", Poster, Graduate Studies and Research Day, Faculty of Engineering, University of Ottawa, February 2008.

NC136. H.T. Mouftah, "Advances in Wireless Sensor Networks", Proceedings of the Association of Egyptian American Scholars Bi-Annual Conference, Cairo, Egypt, December 25-26, 2006.

NC135. H.T. Mouftah, Moderator in a Panel Discussion on "Future trends in Application Controlled Optical Networks", Proceedings of the first Workshop on Application Controlled Optical Networks (ACON'2006), Ottawa, Ontario, May 2006.

NC134. I.F. Akyildiz, T. Todd, H.T. Mouftah, J.-L. Gauvreau, "Wireless mesh networking". Proceedings MSWiM 2005, pp. 223.

NC133. H.T. Mouftah, "Deploying Wireless Sensor Networks in Egypt", Proceedings the Association of Egyptian American Scholars Bi-Annual Conference, Cairo, Egypt, December 29-30, 2004, pp. 58.

NC132. H.T. Mouftah, Moderator of a Panel Discussion session "QoS for Sensor Networks: Is it an Overkill?" Presented at the IEEE First International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks, Dallas, October 2004.

NC131. H.T. Mouftah, P.-H. Ho and C.-H. Yeh, "A Message from the Chairs: International Workshop on Optical Networks Control and Management", Proceedings IEEE Workshop on Optical Networks Control and Management (ONCM2004) in conjunction with the 33rd International Conference on Parallel Processing (ICPP'2004), Montreal, Canada, August 2004, pp. 380.

NC130. S. R. Pramod, B. Zhou and H.T. Mouftah, "Dimensioning of Regenerators in a WDM Optical Networks", Poster presented at CITO Innovators Showcase, Ottawa, September 2003.

NC129. A. Vali Sichani and H.T. Mouftah, "Signaling Nested Reservation Protocol in All-Optical Networks", Poster presented at CITO Innovators Showcase, Ottawa, September 2003.

NC128. A. Eshoul and H.T. Mouftah, "Performance Evaluation of Reservation Protocols in WDM Wavelength-routed Optical networks", Poster presented at CITO Innovators Showcase, Ottawa, September 2003.

NC127.   S. Hashmi and H.T. Mouftah, "Integrated Optical/Wireless Networking", Poster presented at CITO Innovators Showcase, Ottawa, September 2003.

NC126.   A.M. Taha, H. Hassanein and H.T. Mouftah, "Overview of QoS Extensions for Mobile IP Networks", Poster presented at CITO Innovators Showcase, Ottawa, September 2003.

NC125.   H.T. Mouftah, Member of a Panel Discussion on "Future Trends in Wireless Networks", IEEE International Symposium on Computers and Communications (ISCC'2003), Antalya, Turkey, July 2003.

NC124.   H.T. Mouftah, "Advances in Survivable All-Optical Networks Design", OPRA Workshop "Optical Communications- Can we tame the light?", CRC, Ottawa, April 2003.

NC123.   H.T. Mouftah, "Advances in Photonic Packet Switching Networks", Poster presented at CITO Network Knowledge Conference, Ottawa, October 2002.

NC122.   D. Kedzierski, M. Al-Riyami, A. Safwat, T. Sheltami, H.S. Hassanein and H.T. Mouftah, "A Facility For Developing Applications for Multi-hop Wireless Ad Hoc Networks", Poster presented at CITO Knowledge Network Conference, Ottawa, October 2002.

NC121.   H. Hassanein, H.T. Mouftah and C.-S. Yeh, "QoS Management in Wireless Mobile Ad Hoc Networks", Poster presented at CITO Knowledge Network Conference, Ottawa, October 2002.

NC120.   T.You, H. Hassanein and H.T. Mouftah, "Infrastructure-Based MAC in Wireless Mobile Ad-Hoc Networks", Poster presented at CITO Knowledge Network Conference, Ottawa, October 2002.

NC119.   A. Safwat, H.T. Mouftah and H. Hassanein, "A Novel MAC-based Performance Study of Energy-Aware Routing Schemes in Wireless Ad Hoc Networks", Poster presented at CITO Knowledge Network, Ottawa, October 2002.

NC118.   A. Safwat, H. Hassanein and H.T. Mouftah, "Power-Aware Fair Infrastructure Formation for Wireless Mobile Ad Hoc Communications", Poster presented at CITO Knowledge Network Conference, Ottawa, October 2002.

NC117.   T.S. Sheltami and H.T. Mouftah, "A Round Robin MAC Scheme for Cluster Heads in MANETs", Poster presented at CITO Network Knowledge Conference, Ottawa, October 2002.

NC116.   B. Zhou and H. T. Mouftah, "Virtual Topology Reconfiguration Algorithms for Agile WDM Networks", Poster presented at CITO Knowledge Network Conference, Ottawa, October 2002.

NC115.   H.T. Mouftah, "Network Protocols and Routing for the Optical Next Generation Internet", Nortel EBN University Interaction Workshop, Belleville, February 19th, 2002.

NC114.   H.T. Mouftah, "Routing and Interworking for Wireless Ad Hoc Networks", presented at CITO Network And Operations Management Technologies Research Review, Toronto, December 4, 2001.

NC113.   T. Sheltami and H.T. Mouftah, "Virtual Base Station On-Demand Protocol for Power-Aware-Routing In Mobile Wireless Ad Hoc Networks", Poster presented at CITO Network and Operations Management Technologies, Toronto, December 4, 2001.

NC112.   A. Safwat, H.T. Mouftah and H. Hassanein, "Fair Infrastructure Formation for Wireless Mobile Ad Hoc Communications", Poster presented at CITO Network and Operations Management Technologies Research Review, Toronto, December 4, 2001.

NC111.   D. Kedzierski, M. Al-Riyami, A. Safwat, T. Sheltami, H. Hassanein and H. T. Mouftah, "A Testbed For Wireless Ad Hoc Networks", Poster presented at CITO Network and Operations Management Technologies Research Review, Toronto, December 4, 2001.

NC110.   H.T. Mouftah, Moderator in Panel Discussion Session on Future Trends in Mobile Wireless Ad Hoc Networks, CITO/OCRI Tech Talk Workshop on Challenges for Mobile Wireless Ad Hoc Networks, Ottawa, November 20th, 2001.

NC109.   H.T. Mouftah, "Power-Aware Routing in Wireless Ad Hoc Networks", CITO/OCIR Tech Talk Workshop on Challenges for Mobile Wireless Ad Hoc Networks, Ottawa, November 20th, 2001.

NC108.   P.-H. Ho and H.T. Mouftah, "Performance Evaluation of a Framework for Short Leap Shared Protection (SLSP) in WDM Mesh Networks", CITO Knowledge Network Conference, Ottawa, October 2001.

NC107.   H.T. Mouftah, "Telecommunication Systems and Networks: Trends and Challenges- A Working Statement", Member of a Panel Discussion on Trends and Challenges in Telecommunication Systems and Networks, Summer Computer Simulation Conference /Symposium on the Performance Evaluation of Telecommunication Systems and Networks (SCSC/SPECTS2001), Orlando, Florida, July 2001.

NC106.   H.T. Mouftah, Moderator of a Panel Discussion on Future Trends in Optical-Packet Interworking, IEEE Workshop on Optical-Packet Interworking, Montebello, Quebec, May 2001.

NC105.   A. Safwat, H. Hassanein and H.T. Mouftah, "Infrastructure-Formation in MANETs", Poster at CITO Research Review, Kingston, Ontario, May 2001.

NC104.   H.T. Mouftah, "Impact of New Technologies and Regional Development on Education and Vice Versa-A Working Statement", Member of a Panel Discussion, AEAS'2000 Conference on New Visions for Education and Technology, Toronto, Ontario, June 2000.

NC103.   H.T. Mouftah, "Network Control Architecture for IP QoS Management", presented at CITO Modeling and Simulation for Communications Applications Research Review, Ottawa, Ontario, December 14, 2000.

NC102.   Z. Di and H. T. Mouftah, "A Computer-Aided Tool for the design and Performance Evaluation of the Differentiated Services", Poster at CITO Modeling and Simulation for Communications Applications Research Review, Ottawa, Ontario, December 14, 2000.

NC101.   G. Zhang and H. T. Mouftah, "A Sender-initiated Resource Reservation Mechanism Over Diffserv Networks", Poster at CITO Modeling and Simulation for Communications Applications Research Review Ottawa, Ontario, December 14, 2000.

NC100.   B. Zhou and H. T. Mouftah, "A Dynamic RWA Algorithm for Fault Tolerant WDM Network," Presented at CITO Information Research Conference, Ottawa, Ontario, October 2nd, 2000.

NC99.   H.T. Mouftah, "Computer-Aided Modeling, Analysis and Design for Broadband Wireless MAC Protocols", Poster at Nortel Networks Wireless Forum IX, Ottawa, October 2000.

NC98.   Jing Wu and H.T. Mouftah, "Controlling of Light Paths in the Next Generation Internet", CITO/OCRI Tech Talk Workshop on Optical Networks, Ottawa, October 17th, 2000.

NC97.   H. T. Mouftah, "Computer Aided Tools for the Design of Optical Networks", CITO/OCRI Tech Talk Workshop on Optical Networks, Ottawa, October 17th, 2000.

NC96.   H.T. Mouftah, Moderator of a Panel Discussion on Future Trends in Optical Networks", CITO/OCRI Tech Talk Workshop on Optical Networks, Ottawa, October 17th, 2000.

NC95.   H.T. Mouftah, "Disruptive Technology for the Next-Generation Internet- IP Over What?", PanelDiscussion on "IP Over Anything", Opticom'2000 Conference, Dallas, TX, October 2000.

NC94.   H.T. Mouftah and X. Hou, Demonstration on "Computer Aided Tools for Optical Networks", Networks2000, Toronto, September 2000.

NC93.   H. T. Mouftah, "Computer-Aided Modeling, Analysis and Design of Broadband Wireless Networks", Presented at CITO Communication Technologies Research Review, Ottawa, Ontario, May 24, 2000.

NC92.   Y. Yang and H.T. Mouftah, "Investigation into Differentiated Services for Wireless IP Networks", Poster at CITO Communication Technologies Research Review, Ottawa, Ontario, May 24, 2000.

NC91.   H.T. Mouftah, "Advances in Photonic Packet Switching Networks", presented at CITO Network Technologies Research Review, Ottawa, Ontario, March 22, 2000.

NC90.   P. Gadiraju and H.T. Mouftah, "Design Issues for Reliable Optical WDM Networks", Poster at CITO Network Technologies Research Review, Ottawa, Ontario, March 22, 2000.

NC89.   G. Zhang and H.T. Mouftah, "A Scalable End-to-End QoS Management for Diffserv Networks", Poster at CITO Network Technologies Research Review, Ottawa, Ontario, March 22, 2000.

NC88.   S.B. Akram and H.T. Mouftah, "Performance Testing Methodologies for ATM Traffic Management Mechanisms", Poster at CITO Network Technologies Research Review, Ottawa, Ontario, March 22, 2000.

NC87.   H.T. Mouftah, Moderator of a panel discussion on "Future Trends in Optical Networks", presented at CITO/OCRI TechTalk Workshop on Optical Networks, Ottawa, Ontario, October 29, 1999.

NC86.   H.T. Mouftah (joint work with N.A. Naas), "Towards Optimum Design of Static Wavelength-Routing Optical Packet-Switched Networks", CITO/OCRI TechTalk Workshop on Optical Networks, Ottawa, Ontario, October 29, 1999.

NC85.   H.T. Mouftah (joint work with N.A. Naas), "Towards Optimum Design of Static Wavelength-Routing in Wide-Area Optical Packet-Switched Networks", Nortel Networks Terabit WDM Optical Transport Workshop, Ottawa, Ontario, October 5, 1999.

NC84.   Z. Di and H.T. Mouftah, "QUIPS: A Simulation Tool for the Design and Performance Evaluation of QoS Management Techniques over the Internet", CITO Advanced Technology Research Conference, Toronto, Ontario, September 28, 1999.

NC83.   N. Naas and H.T. Mouftah, "Towards Optimum Design of Static Wavelength-Routing Optical Wide-Area Packet-Switched Networks", CITO Advanced Technology Research Conference, Toronto, Ontario, September 28, 1999.

NC82.   H.T. Mouftah, H. Meijer and V.C. Hamacher, "A New Computer Engineering Program at Queen's", 1999 Canadian Conference on Computer Engineering Education, University of British Columbia, Vancouver, B.C., June 1999.

NC81.   H.T. Mouftah, moderator of a panel discussion on "Future Trends in Broadband Switching Systems", presented at the third IEEE Workshop on Broadband Switching Systems (BSS'99), Kingston, Ontario, June 1999.

NC80.   Ming Hou and H.T. Mouftah, "QUIPS: A Simulation Tool for QoS Management over the Internet", Poster presentation, CITO Research Forum - Opportunities '99, Ottawa, Ontario, May 1999.

NC79.   Tony Y. Yang and H.T. Mouftah, "QoS for Wireless Broadband IP Networks", Poster presentation, CITO Research Forum - Opportunities '99, Ottawa, Ontario, May 1999.

NC78.   H.T. Mouftah, "Mobility Management in Wireless ATM Networks", presented at Workshop in Decision Support for Command, Royal Military College of Canada, Kingston, Ontario, October 1998.

NC77.   H.T. Mouftah, moderator of a panel discussion on "Future Trends in Planning and Design of Broadband Networks", presented at the Third IEEE Symposium on Planning and Design of Broadband Networks, Mont Tremblant, Quebec, October 1998.

NC76.   H.T. Mouftah, "Advanced Broadband Network Control Architectures", presented at Nortel's Workshop on IP QoS Management, Ottawa, Ontario, September 1998.

NC75.   H.A. Yazdani and H.T. Mouftah, "QoS Mediation for IP Integrated Services with RSVP over ATM", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC74.   J. Yau and H.T. Mouftah, "Conflict-Free Selective Routing over ATM Networks", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC73.   O. Kubbar and H.T. Mouftah, "An Investigation in a MAC Protocol for the Specification of Wireless ATM Networks", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC72.   E. Fituri and H.T. Mouftah, "Adaptive Connection Admission Control Policy for Future Wireless Networks", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC71.   L. Yan and H.T. Mouftah, "QSync: A Synchronization Architecture for Real-Time Multimedia Applications", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC70.   M. Sivabalan and H.T. Mouftah, "On the Design of Link-State Routing Protocols", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC69.   R. Lin and H.T. Mouftah, "Multicast Routing Algorithms over ATM Networks", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC68.   D. Ye and H.T. Mouftah, "Agent-Based Multimedia Access Framework for IP over ATM Networks", TRIO Final Research Results Conference, Ottawa, Ontario, April 1998.

NC67.   H.T. Mouftah, Member of a Panel Discussion on "The Future of Broadband Switching Systems", Second IEEE International Workshop on Broadband Switching Systems, Taipei, Taiwan, December 1997.

NC66.   H.T. Mouftah, "Advances in Broadband Network Control Architectures", CITO Annual General Meeting, Toronto, Ontario, October 1997.

NC65.   M. Sivabalan and H.T. Mouftah, "QUARTS - A Design Tool for Link-State Routing Protocols", CITO Annual General Meeting, Toronto, Ontario, October 1997.

NC64.   O. Kubbar and H.T. Mouftah, "Performance Evaluation of Bandwidth Reservation Request for Wireless ATM Networks", CITO Annual General Meeting, Toronto, Ontario, October 1997.

NC63.   H.T. Mouftah, "ATM Network Control Architecture", L. Lorne Campbell Conference on Communications, Queen's University, Kingston, Ontario, August 1, 1997.

NC62.   R. Lin and H.T. Mouftah, "Performance Analysis of Multicast Routing Algorithms over ATM Networks", TRIO Retreat, Kingston, Ontario, May 1997.

NC61.   H.T. Mouftah, Moderator of a Panel Discussion on "OR Applications in Telecommunications Networks", presented at the Canadian Operations Research Annual Conference on OR and Information Technology Management (CORS'97), Ottawa, Ontario, May 1997.

NC60.   H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends in Planning and design of Broadband Networks", presented at the second IEEE Symposium on Planning and Design of Broadband Networks, Montebello, Quebec, October 1996.

NC59.   I. Ali and H.T. Mouftah, "Flat Vs Hierarchical Routing in ATM Networks", Queen's/CRC ATM Symposium, Communications Research Centre, Ottawa, Ontario, June 1996.

NC58.   M. Sivabalan and H.T. Mouftah, "Access Control in Multi-Service Communication Networks", Queen's/CRC ATM Symposium, Communications Research Centre, Ottawa, Ontario, June 1996.

NC57.   O. Kubbar and H.T. Mouftah, "Integrated Multiple Access Protocols for Wireless ATM Networks", Queen's/CRC ATM Symposium, Communications Research Centre, Ottawa, Ontario, June 1996.

NC56.   E. Fituri and H.T. Mouftah, "Call Admission Control for Wireless ATM Networks", Queen's/CRC ATM Symposium, Communications Research Centre, Ottawa, Ontario, June 1996.

NC55.   S. Tsakiridou and H.T. Mouftah, "Handoffs in Broadband Wireless Networks", Queen's/CRC ATM Symposium, Communications Research Centre, Ottawa, Ontario, June 1996.

NC54.   M. Toloo and H.T. Mouftah, "Evaluation of Packet Loss Probability in Mobile Personal Communication Systems", Queen's/CRC ATM Symposium, Communications Research Centre, Ottawa, Ontario, June 1996.

NC53.   H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends in Fast Packet Switching", presented at TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1995.

NC52.   M. Sivabalan and H.T. Mouftah, "Alternate Path Routing over ATM Networks", TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1995.

NC51.   O. Kubbar and H.T. Mouftah, "A Proposed 4-Priority Policy for Managing Services & Network", TRIO/ITRC Research Retreat, Kingston, Ontario, May 1995.

NC50.   S. Yazid and H.T. Mouftah, "Virtual Path Based Fast Reservation Protocol", TRIO/ITRC Research Retreat, Kingston, Ontario, May 1995.

NC49.   R. Lodge, L.L. Campbell and H.T. Mouftah, "A Multi-Priority Hybrid Protocol for Satellite Switching Networks", TRIO/ITRC Research Retreat, Kingston, Ontario, May 1995.

NC48.   I. Fituri and H.T. Mouftah, "Design and Performance Evaluation of the IBSN Switch", TRIO/ITRC Research Retreat, Kingston, Ontario, May 1995.

NC47.   H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends in Planning and Design of Broadband Networks", IEEE Symposium on Planning and Design of Broadband Networks, Montebello, Quebec, October 1994.

NC46.   Changming Liu and H.T. Mouftah, "Bandwidth Assignment Based Call Admission Control and ATM Routing", TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, September 1994.

NC45.   H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends in Fast Packet Switching", presented at TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, September 1994.

NC44.   H.T. Mouftah, "Extending the Information Superhighway", Proc. of the Egyptian Scholars in Canada and USA Conference, Ottawa, Ontario, June 1994.

NC43.   D. Singer and H.T. Mouftah, "Reactive Flow Control for On-Board Satellite Switching Systems", Proceedings TRIO/ITRC Research Retreat, Kingston, Ontario, May 1994.

NC42.   S. Yazid and H.T. Mouftah, "Fast Reservation Protocols for ATM Networks", Proceedings TRIO/ITRC Research Retreat, Kingston, Ontario, May 1994.

NC41.   X. Liu and H.T. Mouftah, "Performance Evaluation of Buffered Copy Networks", Proceedings TRIO/ITRC Research Retreat, Kingston, Ontario, May 1994.

NC40.   R. Lodge, L.L. Campbell, D. Singer and H.T. Mouftah, "Queueing Analysis of the Access Delay in a Multi-Priority Satellite Switching Networks", Poster presented at TRIO/ITRC Research Retreat, Kingston, Ontario, May 1994.

NC39.   T. Yang and H.T. Mouftah, "Resource Management in High-Speed Networks", TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1993.

NC38.   R.Y. Awdeh and H.T. Mouftah, "Design and Performance Evaluation of Multicast Broadband Packet Switch Architectures", TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1993.

NC37.   H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends in Fast Packet Switching", TRIO seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1993.

NC36.   R.Y. Awdeh and H.T. Mouftah, "Split-Switching Network for Multicast Switch Architectures", Poster presentation at CITR Annual Research Conference, Montreal, Quebec, August 1993.

NC35.   M. Belkadi and H.T. Mouftah, "Reliability of the 3D-Tree and Augmented 3D-Tree Switching Networks", Poster presentation at CITR Annual Research Conference, Montreal, Quebec, August 1993.

NC34.   R. Zarour and H.T. Mouftah, "Performance of BSEN Under Nonuniform Traffic", Poster presentation at CITR Annual Research Conference, Montreal, Quebec, August 1993.

NC33.   H.T. Mouftah and D. Singer, "ONSATSIM: A Computer Simulation Package for Satellite Networking with On-Board Switching", presentation at CITR Annual Research Conference, Montreal, Quebec, August 1993.

NC32.   X. Liu and H.T. Mouftah, "Overflow Control Architecture in Copy Networks", Poster presented at TRIO/ITRC Research Retreat, Peterborough, Ontario, May 1993.

NC31.   R. Zarour and H.T. Mouftah, "Performance Analysis of the Bridged SE Network Under Uniform Traffic", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1993.

NC30. R. Awdeh and H.T. Mouftah, "A High Performance ATM Packet Switch Architecture", presented at Queen's/Vermont Seminar on Broadband Packet Switching networks, Kingston, Ontario, February 1993.

NC29. M. Belkadi and H.T. Mouftah, "Reliability and Performance of the Augmented 3D-Tree network", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1993.

NC28. S. Yazid and H.T. Mouftah, "Burst Management in ATM Environment", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1993.

NC27. F. Fan and H.T. Mouftah, "Performance Evaluation of an ATM Source Service Node", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1993.

NC26. O. Elmahguibi and H.T. Mouftah, "Performance of Multipath MINs for Fast Packet Switching", presented at TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1992.

NC25. H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends in Fast Packet Switching", presented at TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1992.

NC24. M. Belkadi and H.T. Mouftah, "Fault Tolerance in Multistage Interconnection Networks", Poster presented at CITR Annual Research Conference, Ste. Adele, Quebec, May 1992.

NC23. R. Zarour and H.T. Mouftah, "A DAMA-TDMA Protocol for On-Board Satellite Switching Systems", Poster presented at CITR Annual Research Conference, Ste. Adele, Quebec, May 1992.

NC22. O. Elmahguibi and H.T. Mouftah, "Performance Analysis of Multipath MINs for On-Board Satellite Switching", Poster presented at CITR Annual Research Conference, Ste. Adele, Quebec, May 1992.

NC21. S. Yazid and H.T. Mouftah, "Fast Reservation Protocol for ATM Connectionless Service", presented at TRIO/ITRC Research Retreat, Peterborough, Ontario, May 1992.

NC20. F. Fan and H.T. Mouftah, "Growable Broadband Packet Switching Architectures", presented at TRIO/ITRC Research Retreat, Peterborough, Ontario, May 1992.

NC19 O. Elmahguibi and H.T. Mouftah, "Performance of Multipath Multistage Interconnection Networks", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1992.

NC18. S. Yazid and H.T. Mouftah, "Congestion Control Strategies for ATM Networks", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1992.

NC17. J. Li and H.T. Mouftah, "Performance of HTM Network Under Uniform and Non-Uniform Traffic Pattern", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1992.

NC16. R. Zarour and H.T. Mouftah, "On-Board Satellite Switching Systems", presented at Queen's/Vermont Seminar on Broadband Packet Switching Networks, Kingston, Ontario, February 1992.

NC15. H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends in Fast Packet Switching", presented at TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1991.

NC14. H.F. Badran and H.T. Mouftah, "Performance of Input-Output-Buffered Broadband Packet Switch Architectures with Correlated Input Traffic", presented at TRIO Seminar on Future Trends in Fast Packet Switching, Kingston, Ontario, August 1991.

NC13.	Li Jing and H.T. Mouftah, "Performance of an Integrated Switching Fabric for Broadband Packet Switching Network", Presented at TRIO Researchers Retreat, Peterborough, Ontario, May 1991.

NC12.	O. Elmahguibi and H.T. Mouftah, "Selecting a Switching Fabric: A Knowledge Based System Prototype", Presented at TRIO Researchers Retreat, Peterborough, Ontario, May 1991.

NC11.	H.T. Mouftah, "Recent Advances in Simulation For Telecommunication Networks", Presented at TRIO/Jade Workshop on Simulation of Communication Networks, Montebello, Quebec, January 1991.

NC10.	H.T. Mouftah, "Future Trends in Simulation of Communication Networks", Presented in a Panel Discussion at the TRIO/Jade Workshop on Simulation of Communication Networks, Montebello, Quebec, January 1991.

NC9.	H.T. Mouftah, "Simulation and Its Application to Communications", Presented at the Hitech Update '90 Workshop, Ottawa, Ontario, December 1990.

NC8.	H.T. Mouftah, Moderator of a Panel Discussion on "Future Trends of Broadband Packet Switching Architectures", Presented at TRIO Seminar on Broadband Packet Switching Architectures, Kingston, Ontario, November, 1990.

NC7.	H.F. Badran and H.T. Mouftah, "Performance of Input-Output-Buffered Broadband Packet Switch Architectures", Presented at TRIO Seminar on Broadband Packet Switching Architectures, Kingston, Ontario, November, 1990.

NC6.	H.T. Mouftah, "Broadband Packet Switching Architectures", Presented at TRIO/ITRC Broadband ISDN Workshop/Seminar, Toronto, Ontario, October, 1990.

NC5.	H.T. Mouftah, "Future Trends in CAMAD for Links and Networks", Presented in a Panel Discussion at the IEEE Workshop on Computer-Aided Modeling, Analysis, and Design of Communication Links and Networks, Torino, Italy, September, 1990.

NC4.	H.T. Mouftah, "Opportunities and Challenges for Research in Broadband ISDN - A Working Statement", presented in a Panel Discussion at the TRIO/OCRI Seminar on Integrated Services Digital Networks: Technologies to Applications, Ottawa, Ontario, March 1990.

NC3.	H.T. Mouftah and D. Yurach, "An Automatic Test Pattern Generator", presented at the 1989 Canadian Microelectronics Corporation Workshop, Kingston, Ontario, June 1989. Also appeared in CMC Report IC 89-19, August 1989, pp. 48-51.

NC2.	H.T. Mouftah, "Inter-Hospital Multimedia Networking", presented at the OCRI/TRIO Forefront of Telecommunications Seminar on Better Medicine Through Multimedia Communications, Ottawa, Ontario, January 1989.

NC1.	H.T. Mouftah, "The Role of Expert Systems in Communication Networks CAMAD", presented in a Panel Discussion at the IEEE Workshop on Computer-Aided Modeling, Analysis and Design of Communication Links and Networks, University of Massachusetts, Amherst, Massachusetts, October 1988

**k)	Graduate Thesis Supervision:**

T285.	Priya Patel, «Cross Platform Hybrid Mobile Application-AEV Taxi Services", MCS Project Report, May 2021-January 2022, School of EECS, U. of Ottawa.

T284.	Jing (Kobe) Dai, «Intelligent Virtual Assistant on Mobile App for Autonomous Electric Vehicles", MCS Project Report, May 2021-January 2022, School of EECS, U. of Ottawa.

T283.	Pooja KiranKumar Shah, "Hybrid Application Development for SecCharge System", MCS Project Report, May 2021-January 2022, School of EECS, U. of Ottawa.

T282.	Tanya Tanya, "Hybrid Vehicle Application Development for Autonomous Electric Vehicle in SecCharge and AEV Taxi System", MCS Project Report, May 2021-January 2022, School of

EECS, U. of Ottawa.

T281.   Srikanth Bandapally, "Connected Autonomous Vehicle Platooning using CARLA", MCS Project Report, August 2021-January 2022, School of EECS, U. of Ottawa.

T280.   Prudhvi Raj Reddy, "End-To-End AEV Taxi User Mobile Application Testing", MCS Project Report, August 2021-January 2022, School of EECS, U. of Ottawa.

T279.   Palwasha W. Shaikh, "Intelligent Infrastructures for Charging Reservation and Trip Planning of Connected Autonomous Electric Vehicles", MASc Thesis, September 2019-August2021, School of EECS, U. of Ottawa.

T278.   Turki G. Alghamdi, "Interactions of Connected Electric Vehicles with Modern Power Grids in Smart Cities", PhD thesis, September 2016-July 2021, School of EECS, U. of Ottawa.

T277.   Dafei Zhao, "Taxi Dispatch and AEV Management in AEV Taxi Services", MCS Project Report, December 2020-May 2021, School of EECS, U. of Ottawa.

T276.   Omaima Shoaib, "Evaluation of EV Charging Stations Placement in Greater Montreal using Clustering approach", MDTI Project Report, December 2020-May 2021, School of EECS, U. of Ottawa.

T275.   Shivam Singh, "Analysis of EV Charging Behavior using Machine Learning", MDTI Project Report, December 2020-May 2021, School of EECS, U. of Ottawa.

T274.   Arpita Giriyappanavar, "A Web Application for Site Suitability Analysis for Electric Vehicle Charging Stations Using Multiple Criteria", MCS Project Report, May 2020-April 2021, School of EECS, U. of Ottawa.

T273.   Vidhi Mistry, "Drivable Space Segmentation for Self Driving Cars", MCS Project Report, May2020-April 2021, School of EECS, U. of Ottawa.

T272.   Yogita Shangari, "Evaluation of EV charging based on Reinforcement Learning using ACN-Sim", MCS Project Report, December 2020-April 2021, School of EECS, U. of Ottawa.

T271.   Ooha Yadav Avula, "Automated Reservation for Autonomous Electrical Vehicles in SecCharge", MCS Project Report, December 2020-April 2021, School of EECS, U. of Ottawa.

T270.   Ishita Himanshubhai Shah, "End-To-End Mobile Application Testing in SecCharge System" MCS Project Report, May 2020-April2021, School of EECS, U. of Ottawa.

T269.   Komal Nayyar, "Web Application for Charging and Discharging Electric Vehicles in SecCharge", MCS Project Report, January 2020-April 2021, School of EECS, U. of Ottawa.

T268.   Anagha Anil Patil, "Web Application for Location-Based Suitability Determination for EV Charging Station Placement in Ottawa Using ARCGIS", MCS Project Report, May 2020-April 2021, School of EECS, U. of Ottawa.

T267.   Archa Jain, "Web Application for Trip Planner With Multiple Reservation in SecCharge", MCS Project Report, January 2020-April 2021, School of EECS, U. of Ottawa.

T266.   Kuldeep Kumar, "Multi-Object Detection and Tracking for Autonomous Driving", MCS Project Report, December 2020-April 2021, School of EECS, U. of Ottawa.

T265.   Richa Manjunath Shetty, "Mobile Application for AEV-Taxi Services in SecCharge Platform", MCS Project Report, May 2020-April 2021, School of EECS, U. of Ottawa.

T264.   Pahuldeep Singh Sidhu, "Vehicle Lease Implementation and defect management in SecCharge Platform", MCS Project Report, May 2020-April 2021, School of EECS, U. of Ottawa.

T263.   Ziyang (Peter) Ruan, "AEV Taxi User Management Back-end", MCS Project Report, January 2020-January 2021, School of EECS, U. of Ottawa.

T262.   Saneer Gera, "Object Detection using YOLO v4 on 2D Bird-Eye View Maps generated from LiDAR", MCS Project Report, January 2020-January 2021, School of EECS, U. of Ottawa.

T261.   Sadhika Reddi, "Evaluation of Adaptive EV Charging Algorithms in ACN-Sim Platform", MDTI Project Report, January 2020-December 2020, School of EECS, U. of Ottawa.

T260.   Yamuna Satheesh Kumar, "Voice-initiated Mycroft AI skill sets for Connected Autonomous Vehicles", MCS Project Report, January 2020-December 2020, School of EECS, U of Ottawa.

T259.   Parul Preet Kaur, "Distributed Vehicle to Infrastructure Communications for Connected

Autonomous Vehicles", MCS Project Report January 2020-December 2020, School of EECS, U. of Ottawa.

T258.   Tom Nguyen, "Web Front-End for AEV-Taxi Riders", MCS Project Report, January 2020-December 2020, School of EECS, U of Ottawa.

T257.   Tanisha Jain, "Voice Enabled Services – Android Application for AEV", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T256.   Sameer A. Mohammed, "Mobile Application for Electric Vehicles to Support Charging and Payment Method Features", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T255.   Ankith J. Kala, "Unit testing of SecCharge implementation in Electric vehicles", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T254.   Yashika Vittal, "Feasibility Study on OpenStreetMap Data and Routing for SecCharge", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T253.   Rishabh Kukreja, "Object Detection in Autonomous Electric Vehicles", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T252.   Ishita Kohli, "End-To-End Testing for SecCharge Web Client", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa

T251.   Ashish Verma, "SecCharge Autonomous Electric Vehicle Charging Management", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T250.   Nidhi Sinha, "Electric Vehicle Trip Planner and Multiple Reservation for SecCharge", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T249.   Gurleen Kaur, "Voice Enabled Services for Trip Planner and Reservations in SecCharge", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T248.   Shagun Seth, "Web Application for Finding and Reserving Charging Stations for Electric Vehicles", MCS Project Report, January 2020-May 2020, School of EECS, U of Ottawa.

T247.   Vrushali Nadre, "SecCharge Web Application for Administrative and User Profile", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T246.   Vidya N.H. Pidikiti, "A Mobile Application for Supporting Electric Vehicle Drivers With Charging Facilities", MCS Project Report, May 2019-May 2020, School of EECS, U of Ottawa.

T245.   A.M.A. Ahmed, "Random Medium Access Decision-based Cooperative Spectrum Sensing for Cognitive Radio Vehicular Ad-hoc Networks", PhD Thesis, September 2012-February 2020, School of EECS, U of Ottawa.

T244.   G.S.S.A. Kumar Raja, "Mobile Application for Finding and Reserving Charging Stations for Electrical Vehicles", MCS Project Report, May 2019-February 2020, School of EECS, U of Ottawa.

T243.   Rishamdeep Kaur, "Payment Management Using Stripe", MEBT Project Report, May 2019-January 2020, School of EECS, U of Ottawa.

T242.   K. Mahajan, "ROS Architecture for Autonomous Electric Vehicle in SecCharge", MCS Project Report, May2019-January 2020, School of EECS, U of Ottawa.

T241.   Sehaj Taneja "Signature Based Intrusion Detection System for SecCharge", MCS Project Report, January 2019-January 2020, School of EECS, U of Ottawa.

T240.   A. Sayeed, "Mobile Application for Reservation of SecCharge in AEV", MCS Project Report, September 2018-November 2019, School of EECS, U of Ottawa.

T239.   S. Mishra, "Building a Modern Authentication System and a Modular, Extensible and Reusable Web-based, Single Page Application (SPA) Architecture for the SecCharge platform", MCS Project Report, April 2019-September 2019, School of EECS, U of Ottawa.

T238.   D.A. Chekired, "Towards Efficient and Secure Cloud Architectures and Models: Application on Smart Grid, IoT, and SDN Vehicular Networks", PhD Thesis, September

2016-September 2019, (Co-supervised with Prof. Lyes Khoukhi), Technical University of Troyes, France.

T237.   K.S. Junaida, "AEV Taxi Centric Mobile Application", MCS Project Report, September 2018-May 2019, School of EECS, U. of Ottawa.

T236.   S. S. Sangha, "Autonomous Electric Vehicle Charging Management in SecCharge", MEng Project Report, September 2018-May 2019, School of EECS, U. of Ottawa.

T235.   M.K. Vyas, "Managing Autonomous Vehicles Using Remote Server and its Voice Control", MCS Project Report, October 2018-May 2019, School of EECS, U. of Ottawa.

T234.   S. Singh, "Voice Enabled Taxi Services – Android Application Autonomous Electric Vehicles", MCS Project Report, September 2018-May 2019, School of EECS, U. of Ottawa.

T233.   S. Bahl, "Managing Autonomous Vehicles Using Remote Server and its Voice Control", MCS Project Report, May 2018-May 2019, School of EECS, U. of Ottawa.

T232.   Safa Otoum, "Machine Learning-driven Intrusion Detection Techniques in Critical Infrastructures Monitored by Sensor Networks", Ph.D. Thesis, September 2015-March 2019, School of EECS, (Zayed University, UAE).

T231.   Pooja Mamidala, "Hands Free Reservation on Trip Planner for SecCharge", MCS Project Report, January 2018-March 2019, School of EECS, U. of Ottawa.

T230.   G. Singh, "EV to EVSE Communications for Wireless Charging in SecCharge", MEng Project Report, September 2017-December2018, School of EECS, U. of Ottawa (Espial, Ottawa).

T229.   M. Stapleton, "Protection and Restoration Schemes in Elastic Optical Networks", M.A.Sc. Thesis, May 2016-November 2018, School of EECS, U. of Ottawa (Ciena, Ottawa)

T228.   A. Aldokhayel, "A Kalman Filter-based Dynamic Model for Bus Travel Time Prediction", MASc Thesis, September 2016-August 2018, School of EECS, U. of Ottawa (Alkaseem U, Saudi Arabia).

T227.   H. Kaur,"AEV Taxi Backend", MSC Project Report, September 2017-May2018, School of EECS, U.of Ottawa.

T226.   G. Kaur, "AEV Management in Taxi System", MCS Project Report, September 2017-May2018, School of EECS, U. Ottawa.

T225.   M. Faizan, "AEV Taxi (iOS Mobile Application), MCS Project Report, September 2017-May 2018, School of EECS, U. of Ottawa.

T224.   A. Mahmud, "SecCharge Application Testing- Android Voice-based Client", MCS Project Report, September 2017-May 2018, School of EECS, U. of Ottawa.

T223.   S.K. Kashpyap, "Cloud Computing – Virtualization Using Open Stack", MCS Project Report, September 2017-April 2018, School of EECS, U. of Ottawa,

T222.   S. Kohli, "Web-based Voice Control Over AEVs", MCS Project Report, September 2017-April 2018, School of EECS, U. of Ottawa (Kinaxis, Ottawa).

T221.   A. Pandiyan Dharuman, "SecCharge Application Testing on Android and iOS Devices", MCS Project Report, September 2017-April 2018, School of EECS, U. of Ottawa.

T220.   V. Sangar, "AEV Web Client for Taxi Services", MCS Project Report, September 2017-April 2018, School of EECS, U. of Ottawa (GENBAND-Ribbon Communications, Ottawa).

T219.   H. Singh, "Improving the Reservation of the Autonomous Vehicles in SecCharge", MCS Project Report, September 2017-April 2018, School of EECS, U. of Ottawa (Apple, Ottawa).

T218.   K.S. Chawla, "AEV Taxi Services – Android Application", MCS Project Report, September 2017-April 2018), School of EECS, U. of Ottawa (Grade A, Ottawa).

T217.   A. Thakur, "SecCharge for Autonomous Electric Vehicles", MEng Project Report, September 2017-January 2018, School of EECS, U. of Ottawa (SecCharge, uOttawa).

T216.   S. Sandhu, "Autonomous E-hailing Service- Registration, Login and 2-Step Authentication", MCS Project Report, September 2017-January 2018, school of EECS, U. of Ottawa.

T215.   G.K. Saran, "Reservation of Autonomous Electric Vehicles in SecCharge", MCS Project Report, September 2017-January 2018, School of EECS, U.of Ottawa (Trend Micro,

Ottawa).

T214.   S. Chandna, "Software Defined Survivable Optical Interconnects for Data Centers", M.A.Sc. Thesis, May 2016-September 2017, School of EECS, U. of Ottawa (Nokia, Ottawa).

T213.   N. Dhingra, "Analysis of ORM based JPA Implemtations", M.A.Sc. Thesis, January 2014-August 2017, School of EECS, U. of Ottawa (Canada Post, Ottawa).

T212.   Md. Mahmud Hasan, "Optimal Cyber Security Placement Schemes for Smart City Infrastructures", Ph.D. Thesis, September 2012-June 2017, School of EECS, U. of Ottawa.

T211.   Maryam AlOtaibi, "Relay Selection for Heterogeneous Transmission Powers in Connected Vehicles", Ph.D. Thesis, February 2014-May 2017, School of EECS, U. of Ottawa, Co-Supervised with E. Boukerche (University of Kuwait).

T210.   S. Prasla, "Reservation Queue Management in SecCharge", MCS Project Report, May 2016-May 2017, School of EECS, U. of Ottawa (Apption Corp., Ottawa).

T209.   D. Yadav, "Automated Booking Management for Autonomous Vehicles", MCS Project Report, May 2016-May 2017, School of EECS, U. of Ottawa (Open Software, Ottawa).

T208.   L. Sharma, "Reservation for Autonomous Vehicles", MCS Project Report, May 2016-May 2017, School of EECS, U. of Ottawa (OPIN Software Inc, Ottawa).

T207.   Y. Nasrallah, "Enhanced IEEE 802.11p-Based Protocols for Vehicular Ad Hoc Networks", Ph.D. Thesis, September 2012-May 2017, School of EECS, U. of Ottawa (Cisco, Ottawa).

T206.   M. Gandhi, "Autonomous Electric Vehicles in Smart Cities", M.Eng. Project Report, January 2017-May 2017, School of EECS, U. of Ottawa (IBM Canada, Toronto).

T205.   Nippon Banga, "Implementation of OCPP Commands in SecCharge", M.Eng. Project Report, May 2016-May 2017, School of EECS, U. of Ottawa.

T204.   N.K. Chaurasia, "Drive Mode: Hands Free Reservation through Interactive Voice Input in SecCharge", MCS Project Report, May 2016-May 2017, School of EECS, U. of Ottawa (NRC, Waterloo).

T203.   G.S. Chandhoke, "A Framework for Virtual Patient Navigation Applications", M.A.Sc. Thesis, May 2016-April 2017, School of EECS, U. of Ottawa (Co-Supervised with Dr. Daniel Amyot).

T202.   S. Bhatia, "Cloud Computing- Virtualization Using OpenStack", MCS Project Report , May 2016- April 2017, School of EECS, U. of Ottawa (Genband, Ottawa).

T201.   H. Ghafghazi, "Privacy-Preserving Location-Aware Data Availability and Access Authorization in Public Safety Broadband Networks", Ph.D. Thesis, September 2012-April 2017, School of EECS, U. of Ottawa (Jimolto, Ottawa).

T200.   A. Dahbi, "Supply Chain Discovery Services in an Internet of Things Environment", Ph.D. Thesis, September 2010-April 2017, School of EECS, U. of Ottawa (Sonus Networks, Ottawa).

T199.   Tarek Refaat, "Virtual Machine Management for Dynamic Vehicular Cloud", Ph.D. Thesis, September 2012-February 2017, School of EECS, U. of Ottawa (Cisco, Ottawa).

T198.   Gulshan P.K. Josan, "Trip Planner- iOS Mobile Application", M.Eng. Project Report, May 2016-December 2016, School of EECS, U. of Ottawa (Kinaxis, Ottawa).

T197.   J.P. Singh, "Wireless Sensor Networks for the Internet of Thinks", M.Eng. Project Report, May 2016-December 2016, School of EECS, U. of Ottawa.

T196.   Moayad Aloqaily, "User Experience-Based Provisioning Services in Vehicular Clouds", Ph.D. Thesis, September 2012-November 2016, School of EECS, U. of Ottawa (American University of Middle-East, Kuwait).

T195.   A. Al-Tubuly, "Roaming Interoperability for Electric Vehicle Charging Networks", M.A.Sc. Thesis, January 2015-August 2016, School of EECS, U. of Ottawa (University of Ottawa).

T194.   N. Yaagoubi, "Game Theoretic Load Management Schemes for Smart Grids", Ph.D. Thesis, September 2011-July 2016, School of EECS, U. of Ottawa (University of Ottawa).

T193.   D. Goswami, "Automated Testing in SecCharge Application", M.Eng. Project Report,

September 2015-May 2016, School of EECS, U. of Ottawa (Infosys, Ottawa).

T192.   R. Sharma, "iOS Mobile Application for User Management Software for Electric Vehicle Battery Charging System", M.Eng. Project Report, January 2016-May 2016, School of EECS, U. of Ottawa (Ample 3D, Ottawa).

T191.   S. Lufa, "SecCharge: IVR Research and Implementation", M.Eng. Report, January2016-May 2016, School of EECS, U. of Ottawa (Thinkwrap Commerce, Ottawa).

T190.   V.R. Kaushik, "SecCharge- Finding Available Charging Stations for Instant EV Charging", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa.

T189.   S. Singh, "Android Application Development for the Application SecCharge", M.Eng Report, September 2015-May 2016, School of EECS, U. of Ottawa (MThree Consulting, Ottawa).

T188.   P. Konsam, "Securing Electrical Vehicle Charging Web Application System", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa (Phreesia, Ottawa).

T187.   H. Cherukuri, "Virtualizing SecCharge Web Application System on Open Source Cloud Computing Technology", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa, (Red Hat, Etobicoke).

T186.   H.S. Grewal, "SecCharge Trip Planner Module in IOS", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa (Toronto).

T185.   S. Chawla, "Database Optimization of SecCharge Using Cashing Framework", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa (Entrust Datacard, Ottawa).

T184.   A. Sangal, "Configuring the SecCharge Application on Cloud with Open Stack », M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa (Cistech, Ottawa).

T183.   D. Anand, "SecCharge HelpDesk Application", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa (Entrust Datacard, Ottawa).

T182.   V.K. Dhaliwal, "Reservation of an Electric Vehicle in SecCharge Android Application", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa (Adobe, Ottawa).

T181.   N. Kaur, "Implementation of Restful Service Using Oracle APEX and Spring Boot", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa.

T180.   B.S. Sidhu, "Implementing Third Party Payment Option for SecCharge Users", M.CS. Report, September 2015-May 2016, School of EECS, U. of Ottawa (U. of Ottawa).

T179.   A. Pogu, "Advance Search and RoutePlanner for SecCharge", M.CS. Report, September 2014-May 2016, School of EECS, U. of Ottawa (Entrust Datacard, Ottawa).

T178.   A.S. Khokhar, "Functional and Performance Testing of SecCharge", M.CS. Report, September 2015-April 2016, School of EECS, U. of Ottawa (Ontario Ministry of Education, Toronto).

T177.   V. Rajendran, "Third Party Payment for SecCharge", M.CS Report, September 2015-April 2016, School of EECS, U. of Ottawa (Halogen Software, Ottawa).

T176.   O. Aloqaily, "Charging and Discharging Algorithms for PEV in Smart Grid Environment", M.A.Sc. Thesis, January 2015-April 2016, School of EECS, U. of Ottawa (U. of Ottawa).

T175.   E. Khan, "A Multi-Vendor Model for Authenticating Electric Vehicles in Smart Grid Systems Using RSA and ECC", M.A.Sc. Thesis, September 2014-March 2016, School of EECS, U. of Ottawa (University of Oklahoma).

T174.   D. Zhu, "Experimental Performance Evaluation of TCP/IPv6 Over IEEE 802.15.4 Wireless Sensor Networks", M.A.Sc. Thesis, September 2013-March 2016, School of EECS, U. of Ottawa (Gymtrack Inc., Ottawa).

T173.   M. Mogla, "FEC Implementation on Zigbee Sensors", M.Eng Report, September 2016-January 2016, School of EECS, U. of Ottawa (Harris Corp, Gatineau).

T172.   G. Katal, "Testing Trip Planner and User Interface of SecCharge Application", M.Eng Report, September 2015-January 2016, School of EECS, U. of Ottawa.

T171.   A. Sharma, "Charging Electric Vehicle at Public Charging Station", M.CS Report, May 2015-December 2015, School of EECS, U. of Ottawa.

T170.   Y. Pahwa, "SecCharge Open Charge Point Protocol", M.Eng Report, May 2015-December

2015, School of EECS, U. of Ottawa (NRC, Waterloo).

T169.　　A.S. Sekhon, "Reservation in SecCharge", M.CS Report, May 2015-December 2015, School of EECS, U. of Ottawa (Sony, Waterloo).

T168.　　P. Patel, "Viewing of Charging Station – SecCharge Use Case 3.1", M.CS Report, May 2014-December 2015, School of EECS, U. of Ottawa (Cisco, Ottawa).

T167.　　I. Buamod, "SecCharge Data Base Design and Implementation", M.Eng Report, September 2013-August 2015, School of EECS, U. of Ottawa (BTI Systems, Ottawa).

T166.　　A. Damani, "Mobile Web Application User Management Software for Electric Vehicle Battery Charging System", M.Eng Report, May 2014-August 2015, School of EECS, U. of Ottawa (A-Maps Solutions, Ottawa).

T165.　　H.A. Kashani, "SecCharge: Service Provider Administration Console", M.CS Report, September 2014-August 2015, School of EECS, U. of Ottawa (NorthStar Utilities Solutions, Ottawa).

T164.　　M. Jarrar, "Radio over Fiber Passive Optical Network Integration for the Smart Grid", M.A.Sc. Thesis, September 2012-July 2015, School of EECS, U. of Ottawa (PhD student at U. of Ottawa).

T163.　　R. Chaudhari, "Emergency Facility Management System", M.CS Report, September 2014-May 2015, School of EECS, U. of Ottawa (The Electric Mail Company, Ottawa).

T162.　　S.S. Shah, "Electric Vehicle to Supply Equipment Connection and Transfer of Data Using I2SE Emulators", M.Eng. Report, May 2014-May 2015, School of EECS, U. of Ottawa (Afilias, Toronto).

T161.　　G.T. Gutta, "Search and Locate Charging Stations Effectively in the SecCharge Project", M.CS Report, May 2014-May 2015, School of EECS, U. of Ottawa (CIRA, Ottawa).

T160.　　M. M. Gad, "Connectivity-Aware Routing Algorithms for Cognitive Radio Networks", Ph.D. Thesis, September 2009-May 2015, School of EECS, U. of Ottawa (Revenue Canada).

T159.　　A.S. Saroya, "SecCharge- Tracking the Battery Status in an Electric Vehicle", M.CS Report, September 2014-April 2015, School of EECS, U. of Ottawa (Accent Compliance Inc, Ottawa).

T158.　　D. Dhakan, "Software API to Fetch Up-to-Date Electricity Prices for Plug-In Vehicles", M.CS Report, September 2014-April 2015, School of EECS, U. of Ottawa (FreshBooks, Toronto).

T157.　　D. Sarker, "Authenticated Login and Registration Software for Electric Vehicle Battery Charging System", M.CS. Report, September 2014-April 2015, School of EECS, U. of Ottawa (Nokia, Ottawa).

T156.　　K. Thakker, "Reserve a Charging Station Remotely", M. Eng. Report, September 2014-February 2015, School of EECS, U. of Ottawa.

T155.　　A.A. Khan, "Web Services for Energy Management in Smart Grid Environment", Ph.D. Thesis, September 2007-January 2015, School of EECS, U. of Ottawa (City University of Technology, New York).

T154.　　T. Liang, "Performance Evaluation of a LEO Mobile Satellite System Integrated with Intelligent-Transportation-System Networks", M.A.Sc. Thesis, January 2013-January 2015, School of EECS, U. of Ottawa (Bell Canada, Ottawa).

T153.　　W. Xie, "Impact of End-to-End Delay in Zigbee-based Communication Systems on Power Consumption in Smart Homes", M.A.Sc. Thesis, September 2010-January 2015, School of EECS, U. of Ottawa (Nokia, Ottawa).

T152.　　S. Otoum, "Wireless Sensor Network-based Epilepsy Patients Monitoring System", M.A.Sc. Thesis, September 2012-December 2014, School of EECS, U. of Ottawa (PhD at U. of Ottawa).

T151.　　S.K. Sabavat, "Emergency Facility Information System REST Server Development", M.C.S. Report, September 2013- December 2014, School of EECS, U. of Ottawa (Enginiant

Inc., Ottawa).

T150.   M.U. Mahfuz, "Fundamentals of Concentration-Encoded Molecular Communication", Ph.D. Thesis, September 2009-October 2014, School of EECS, U. of Ottawa (Co-Supervised with Dr. D. Makrakis) (University of Wisconsin-Green Bay).

T149.   M. Guennoun, "Semi-Persistent Medium Access Control Protocols for Wireless Sensor Networks", Ph.D. Thesis, September 2010-September 2014, School of EECS, U. of Ottawa (Cisco, Ottawa).

T148.   M. H. Megahed, "SurvSec Security Architecture for Reliable Surveillance WSN Recovery from Base Station Failure", Ph.D. Thesis, January 2012-May 2014, School of EECS, U. of Ottawa (Co-Supervised with Dr. D. Makrakis) (Technical Military College, Cairo, Egypt).

T147.   A. Jedda, "Distributed Algorithms for Networks Formation in a Scalable Internet of Things", Ph.D. Thesis, September2012-April 2014, School of EECS, U. of Ottawa (Morgan Stanley, Montreal).

T146.   M.Y. Baloch, "Smart Grid: Performance Analysis of WLANs and WPANs in the Medium Sized Distribution Substation Automation – IEC 61850", M.Eng. Project Report, May 2013-April 2014, School of EECS, U. of Ottawa (Sbaro Development of Ontario, Rawalpindi, Pakistan).

T145.   M. Rahman, "Management of City Traffic, Using Wireless Sensor Networks with Dynamic Model", M.A.Sc. Thesis, September 2011-March 2014, School of EECS, U. of Ottawa (Co-Supervised with Dr. N. Ahmed).

T144.   T. Du, "Design and Development of Novel Performance Improvement Techniques for ZigBee Packet Transmission under Wi-Fi Interference", M.A.Sc. Thesis, September 2011-October 2013, School of EECS, U. of Ottawa (Co-Supervised with Dr. D. Makrakis) (Ericsson, Ottawa).

T143.   I.S. Al-Anbagi, "Quality of Service for Wireless Sensor Networks in Smart Grid Applications", Ph.D. Thesis, September 2010-September 2013, School of EECS, U. of Ottawa (University of Regina, Saskatchewan).

T142.   N. Zaker, "Fiber-Wireless Sensor Broadband Access Network Integration (Fi-WSN) for the Smart Grid", M.A.Sc. Thesis, September 2011-February 2013, School of EECS, U of Ottawa (March Networks, Ottawa).

T141.   O.T. Emmanuel, "Medical Wireless Body Area Networks, Protocols and Architectures", M.Eng Report, January 2012-January 2013, School of EECS, U. of Ottawa (Bell Canada).

T140.   S. Zaki, "IP-based Wireless Sensor Networks", M.Eng. Report, January 2012-September 2012, Systems Science, U. of Ottawa (Affirmed Networks, Ottawa).

T139.   Y. Tang, "Performance Study for Coexisting WiFi and Zigbee Systems and Design of Interoperability Techniques", M.A.Sc. Thesis, January 2010-July 2012, School of EECS, U. of Ottawa (Co-Supervised with Dr. D. Makrakis).

T138.   K. Maamoun, "Deploying Monitoring Trails for Fault Localization in All-Optical networks and Radio-Over-Fiber Passive Optical Networks", Ph.D. Thesis, September 2007-July 2012, School of EECS, U. of Ottawa (Ciena, Ottawa).

T137.   J. Israr, "Design of Lightweight Alternatives to Secure Border Gateway Protocol and Mitigate Against Control and Data Plane Attacks", Ph.D. Thesis, September 2007-April 2012, School of EECS, U. of Ottawa (Cisco, Ottawa).

T136.   M. Khanafer, "Design of Efficient MAC Protocols for IEEE 802.15.4-based Wireless Sensor Networks", Ph.D. Thesis, September 2007-April 2012, School of EECS, U. of Ottawa (American University of Kuwait).

T135.   Y. Nasrallah, "Energy-Efficient Battery-Aware MAC Protocols in Wireless Sensor Networks", M.A.Sc. Thesis, September 2009-February 2012, School of EECS, U. of Ottawa (Cisco, Ottawa).

T134.   M. I. Bazama, "Investigation into Layer 3 Multicast Virtual Private Network Schemes",

	M.A.Sc.Thesis, September 2008-February 2012, School of EECS, U. of Ottawa (Cisco, Ottawa).
T133.	B. Qela, "Adaptive Systems for Smart Buildings Utilizing Wireless Sensor Networks and Artificial Intelligence", Ph.D. Thesis, January 2009-November 2011, School of EECS, U. of Ottawa (APC Smart Systems, Ottawa).
T132.	O.Z. Asad, "Smart Grid Applications Using Web Services", M.A.Sc. Thesis, January 2009-February 2011, SITE, U. of Ottawa (McGill University, Montreal).
T131.	M. Ebada, "Multipath Routing for Wireless Sensor Networks: A Hybrid Between Source Routing and Diffusion Techniques", M.A.Sc. Thesis, September 2008-January 2011, Systems Science, U. of Ottawa.
T130.	E. AlSukhni, "Ditributed Real Time Algorithms and Design Concepts for Next Generation Survivable Optical Networks", Ph.D. Thesis, September 2005-December 2010, SITE, U. of Ottawa (Yarmouk University, Irbid, Jordan).
T129.	S.U. Hashmi, "Reliable and Energy Efficient Cluster-Based Wireless Sensor Networks", Ph.D. Thesis, September 2002-December 2010, SITE, U. of Ottawa (Co-Supervised with Dr. N. Georganas) (Avaya, Ottawa).
T128.	H. He, "Control Architecture of Survivable Multi-domain Optical Networks", M.A.Sc. Thesis, September 2008-December 2010, SITE, U. of Ottawa (Co-Supervised with Dr. J. Wu) (Ciena, Ottawa).
T127.	A. Hassan, "Evaluation of Fast Reroute Mechanisms in Broadband Networks", M.A.Sc. Thesis, January 2008-November 2010, SITE, U. of Ottawa (Ciena, Ottawa).
T126.	R.F.Z. Henry, "CEMA: Comfort Control and Energy Management Algorithms", M.A.Sc. Thesis, January 2008- August 2010, SITE, U. of Ottawa (Ciena, Ottawa).
T125.	A. Dahbi, "Emulation of Limited-Perimeter Vector Matching Fault-Localization Protocol", M.A.Sc. Thesis, September 2008-August 2010, SITE, U. of Ottawa (Sonus Networks, Ottawa).
T124.	F.S. El-Khamy, "Realization Optimum Performances of All Optical Networks", Ph.D. Thesis, September 2005-June 2010, Electronics and Communications Dept., Tanta University, Tanta, Egypt (Co-Supervised with Dr. M. Nasr and Dr. H. Shalaby) (National Telecommunications Institute, Cairo).
T123.	W.B. Jamil, "Application of FPGA in Acceleration of numerical Solution of Differential Equations", M.A.Sc. Thesis, September 2005-March 2010, SITE, U. of Ottawa (Co-supervised with Dr. E. Gad), (Cisco, Ottawa).
T122.	N. Metwaly, "Common Application Programming Interface Architecture Bridge for Connecting Heterogeneous Home Computing Middleware", M.A.Sc. Thesis, September 2007-March 2010, SITE, U. of Ottawa (Industry Canada, Ottawa).
T121.	T. W. Saad, "A Framework for Provisioning Reliable Services in Multi-Domain Networks", Ph.D. Thesis, September 2003-August 2009, SITE, U. of Ottawa (Cisco, Ottawa).
T120.	K. Al-Hawashem, "Highly Reliable and Delay Bound Wireless Sensor Network Protocol for Oil and Gas Plants", M.A.Sc. Thesis, September 2006-June 2009, SITE, U. of Ottawa (ARAMCO, Saudi Arabia).
T119.	B. Kantarci, "Availability Constrained Routing and Wavelength Assignment and Survivability in Optical WDM Networks", Ph.D. Thesis, September 2006-May 2009, Department of Computer Engineering, Istanbul Technical University (Co-supervised with Dr. S. F. Oktug) (Clarkson University, Postdam, New York).
T118.	K. A. E. Ali, "Directional Cell Breathing – A Novel Framework for Congestion Control and Load Balancing in Broadband Wireless Networks", Ph.D. Thesis, September 2002-April 2009, ECE Dept., Queen's University (co-supervised with Dr. H. S. Hassanein) (Al Fateh University, Tripoli, Libya).
T117.	M. Fayed, "Simple Geometric Constructs for Routing and Boundary Detection in Sensor

Networks", Ph.D. Thesis, November 2008, SITE, U. of Ottawa (Stirling University, Scotland).

T116.   M. Khair, "Fault Localization for Next Generation Survivable All-Optical Networks", Ph.D. Thesis, November 2008, SITE, U. of Ottawa.

T115.   B. Alawieh, "Exploring Spacial Reuse Effects on Performance Enhancements in Wireless Multihop Networks", Ph.D. Thesis, August 2008, ECE Dept. Concordia University (Co-supervised with Dr. C. Assi) (Ciena, Ottawa).

T114.   Z. A. Jaffari, "Performance Evaluation of Limited-Perimeter Vector Matching Fault Localization Protocol", M.Sc. Thesis in Computer Networks, School of Technology and Health, KTH-Royal Institute of Technology, Sweden, July 2008.

T113.   N. Naas, "Towards the Realistic Planning of the GMPLS-Based Optical Transport Networks", Ph.D. Thesis, May 2008, SITE, U. of Ottawa (Al Fateh University, Tripoli, Libya).

T112.   H. Lui, "Absolute Quality-of-Service Differentiation in Optical Burst Switching Networks", Ph.D.Thesis, April 2008, SITE, U. of Ottawa.

T111.   A. M. A. Taha, "A Framework for Radio Resource Management in Heterogeneous Wireless Networks", Ph.D. Thesis, September 2007, ECE Dept., Queen's University (Co-supervised with Dr. H. S. Hassanein) (Al-Faisal University, Saudi Arabia).

T110.   M. Faisal Kamran, "Wavelength Division Multiplexing Passive Optical Networks (WDM-PONs)", M.Eng. Report, August 2007, SITE, U. of Ottawa.

T109.   S. Richard Pramod, "Design Issues in the Next Generation Wavelength Division Multiplexed Optical Network", Ph.D. Thesis, August 2007, SITE, U. of Ottawa (Co-supervised with Dr. Hanan Anis).

T108.   M. Khanafer, "Extending BGP Protocol to Achieve Inter-Domain Routing in Optical Networks", M.A.Sc. Thesis, May 2007, SITE, U. of Ottawa (American University of Kuwait).

T107.   K. Maamoun, "Survivable IP over Optical Transport Networks", M.A.Sc. Thesis, May 2007, SITE, U. of Ottawa (Ciena, Ottawa).

T106.   T. Hu, "Dynamic Optical Multicast Routing in Sparse-splitting WDM Networks", Ph.D. Thesis, May 2007, SITE, U of Ottawa.

T105.   H. Zhou, "Network Architecture and Protocol Design for the Next Generation Wireless Metropolitan Area Network", Ph.D. Thesis, April 2007, ECE Dept., Queen's University (Co-supervised with Dr. C.-C Yeh).

T104.   Z. Alshaer, "Power Aware Routing for Wireless Sensor Networks", M.Eng. Report, April 2006, SITE, U. of Ottawa.

T103.   F. Habib, "Routing Protocols in Wireless Sensor Networks", M.Eng. Report, November 2 006, SITE, U. of Ottawa.

T102.   J. Abdo, "Test-bed for Sensor Network Management Protocols", M.A.Sc. Thesis, November 2006, SITE, U. of Ottawa (Co-supervised with Dr. N. Georganas) (Ciena, Ottawa).

T101.   Qi Guo, "Availability-Constrained Shared Backup Path Protection for GMPLS-based Spare Capacity Reconfiguration", M.A.Sc. Thesis, August 2006, SITE, U. of Ottawa.

T100.   A.E. Eshoul, "Algorithms for Survivable Routing and Wavelength Assignment in WDM Wavelength-Routed Mesh Networks", Ph.D. Thesis, June 2006, SITE, U. of Ottawa.

T99.   A.V. Sichani, "Signaling Protocols for Survivable All-Optical Networks", Ph.D. Thesis, April 2006, SITE, U. of Ottawa.

T98.   Yi Wei, "Routing in Wireless Mesh Networks", M.Sc. Report, January 2006, ECE Dept., Queen's U. Co-supervised with Dr. H. Hassanein).

T97.   N. Abu Ali, "A Framework for Resource Management of VPLS Connections over MPLS Core Networks", Ph. D. Thesis, January 2006, ECE Dept., Queen's U. (Co-supervised with Dr. S. Gazor) (United Arab Emirates University, Al-Ain, UAE).

T96.   T. Fan, "A Novel Dynamic Bandwidth Allocation Algorithm with QoS Support for EPON Access Networks", M.A.Sc. Thesis, January 2006, SITE, U. of Ottawa.

T95.   S. Said, "Control and Survivability Issues for Optical Burst Switching", M.A.Sc. Thesis, October 2005, SITE, U. of Ottawa, (Ciena).

T94.   A. Nouroozifar, "Priority Queueing Scheduling Techniques for QoS Management in Ethernet Passive Optical Networks", M.A.Sc. Thesis, August 2005, SITE, U. of Ottawa.

T93.   M.S. Al-Kahtani, "QoS Management Framework for Reliable Mobile Ad Hoc Networks", Ph.D.Thesis, August 2005, SITE, U. of Ottawa (Salman Bin AbdulAziz University, Saudi Arabia).

T92.   H. Wang, "P-Cycle in Multi-layer and Multi-failure Network Survivability", M.A.Sc. Thesis, June 2005, SITE, U. of Ottawa.

T91.   A. Maach, "Contention Reduction and Reliability Enhancement for Optical Burst Switching", Ph.D. Thesis, February 2005, SITE, U. of Ottawa (Co-supervised with Dr. Gregor Bochmann).

T90.   J. Peng, "Service Oriented Reaction Rule Agent", M.Sc. Thesis, September 2004, ECE Dept., Queen's U.

T89.   B. Zhou, "Traffic Engineering Algorithms for Agile Wavelength-routed WDM Networks", Ph.D. Thesis, September 2003, ECE Dept., Queen's U.

T88.   T. Feng, "Routing and Wavelength Assignment Schemes in Next-Generation Wavelength-Routed Optical Networks", M.Sc. Thesis, September 2003, ECE Dept., Queen's U (Microsoft).

T87.   T. Sheltami, "Efficient Routing Schemes for Wireless Mobile Ad Hoc Networks", Ph. D. Thesis, April 2003, ECE Dept., Queen's University, King Fahd University, Saudi Arabia).

T86.   A. Safwat, "A Framework for Energy Efficiency in Wireless Multi-Hop Ad Hoc and Sensor Networks", Ph. D. Thesis, April 2003, School of Computing, Queen's U. (Co-supervized with Dr. Hossam Hassanein) (Queen's University, Kingston).

T85.   B.T.S. Wong, "A Simulation Study of Distributed Lightpath Control Based on Destination Routing for Wavelength-Routed WDM Networks", M.Sc. Report, March 2003, ECE Dept., Queen's U.

T84.   H. Zhou, "Efficient MAC Protocols for Heterogeneous Wireless Networks", M.Sc. Thesis, March 2003, ECE Dept., Queen's U. (Co-supervized with Dr. Chihsiang Yeh).

T83.   K. Ali, "Performance Testing of Data and Control Planes in Broadband Packet Switching Networks", M.Sc. Thesis, December 2002, ECE Dept., Queen's U., (University of Tripoli, Libya).

T82.   Y. Zhan, "A Simulation Study of PA-VBS Infrustructure Protocol and VBS-O Routing Protocol", M. Sc. Report, September 2002, ECE Dept., Queen's U.

T81.   A. Vali Sichani, "Distributed Reservation Protocols for WDM Networks", M.Sc. Thesis, September 2002, ECE Dept., Queen's U.

T80.   A. Eshoul, "Computer Aided Tools for Planning and Design of WDM Wavelength-Routed Optical Networks", M. Sc. Thesis, September 2002, ECE Dept., Queen's U.

T79.   P.-H. Ho, "Control and Management for the Optical Next-Generation Internet", Ph.D. Thesis, September 2002, ECE Dept., Queen's U. (University of Waterloo).

T78.   Zesong Di, "Performance Evaluation of Differentiated Services Over the Internet", M.Sc. Thesis, June 2002, ECE Dept., Queen's U.

T77.   N.-D. Kiameso, "Performance Evaluation of Assured Service for Diffserv Architecture", M.Sc. Thesis, May 2002, CISC Dept., Queen's U. (Co-supervised with Dr. H.S. Hassanein).

T76.   S. B. Akram, "Performance Measurement of Policing and Congestion Control Mechanisms in ATM Networks", M.Sc. Thesis, April 2002, ECE Dept., Queen's U.

T75.   T. You, "Infrastructure-Based MAC in Wireless Mobile Ad-Hoc Networks", M.Sc. Thesis, January 2002, CISC Dept., Queen's U. (Co-supervised with Dr. H.S. Hassanein).

T74.   H.A. Khan, "Design and Implementation of Performance Testing Tool for ATM Networks", M.Sc. Thesis, September 2001, ECE Dept., Queen's U.

T73.   X. Hou, "Towards the Optimal Design of Wavelength-Convertible Switches in WDM Networks", M.Sc. Thesis, August 2001, ECE Dept., Queen's U.

T72.   W.-F. Chen, "Design and Analysis of an Interval-based ABR Flow Control Protocol", Ph.D. Thesis, June 2001, ECE Dept., Queen's U.

T71.   J.C. Dullaert, "Delivering End-to-End Quality of Service Through a Differentiated Services Based Internet", M.Eng. Thesis, April 2001, ECE Dept., Royal Military College of Canada, (Co-supervisor: Dr. H. Rahman).

T70.   H. Chen, "Providing Packet-Loss Guarantees in Differentiated Services Architecture", M.Sc. Thesis, April 2001, CISC Dept., Queen's University (Co-supervisor: Dr. H. Hassanein).

T69.   P. Gadiraju, "Investigations into Channel Protection in WDM Mesh Networks", M.Sc. Thesis, January 2001, ECE Dept., Queen's U.

T68.   D. Lin, "Evaluation of Optical Switch Architectures Utilizing Wavelength Converters", M.Sc. Report, January 2001, ECE Dept., Queen's U.

T67.   G. Zhang, "A Sender-Initiated Resource Reservation Mechanism Over Diffserv Networks," M.Sc. Thesis, December 2000, ECE Dept., Queen's U.

T66.   H. Zhang, "Design and Analysis of Congestion Control for High-Speed Networks", Ph.D. Thesis, December 2000, ECE Dept., U. of Ottawa (Co-Supervision with Dr. O.W Yang).

T65.   E.A. Fituri, "Approaches for Bandwidth Allocation in Broadband Mobile Wireless Networks", Ph.D. Thesis, August 2000, ECE Dept., Queen's U.

T64.   O. Kubbar, "Design and Performance Evaluation of Broadband Wireless MAC Protocols", Ph.D. Thesis, April 2000, ECE Dept., Queen's U.

T63.   N.P. Torrington-Smith, "An Evaluation of Optical Switch Architectures Utilizing Wavelength Converters", M.Eng. Thesis, Royal Military College of Canada, Kingston, Ontario, April 2000 (Co-Supervisor: Dr. H. Rahman).

T62.   N.A. Naas, "Towards Optimum Design of Static Wavelength-Routing Wide-Area Optical Packet-Switched Networks", M.Sc. Thesis, October 1999, ECE Dept., Queen's U.

T61.   M. Hou, "QoS Management with Differentiated Services IP over the Internet", M.Sc. Thesis, August 1999, ECE Dept., Queen's U.

T60.   M. Sivabalan, "Design and Performance Evaluation of Routing Protocols for Connection-Oriented Networks", Ph.D. Thesis, September 1998, ECE Dept., Queen's U.

T59.   R. Lin, "Performance Evaluation of Multicast Routing Algorithms over ATM Networks", M.Sc. Thesis, March 1998, ECE Dept., Queen's U.

T58.   D.M. Raymond, "On the Efficient Serial Realization of Multidimensional Order Statistics Filters", Ph.D. Thesis, October 1997, ECE Dept., Queen's U.

T57.   I.A. Ali, "Fast Switching for Broadband ISDN: Routing in Asynchronous Transfer Mode", Ph.D. Thesis, Department of Telecommunications Engineering, University of Helwan, Egypt, July 1997.

T56.   N. Neayem, "Interworking in Broadband Networks", M.Sc. Project Report, April 1997, ECE Dept., Queen's U.

T55.   Y.-S. Lee, "TCP/IP Performance Evaluation over ATM Networks", M.Sc. Project Report, April 1997, ECE Dept., Queen's U.

T54.   Z. Zhu, "Multimedia Realtime Transport Protocol over ATM Network", M.Sc. Thesis, Dept. Of Computing and Information Science, Queen's University, December 1996.

T53.   R. Zarour, "A Class of ATM Switch Architectures Based on the Bridged Shuffle Exchange Networks", Ph.D. Thesis, October 1996, ECE Dept., Queen's U.

T52.   M. Toloo, "Analytical Approaches to the Modeling of Mobile Personal Communication Systems", Ph.D. Thesis, September 1996, ECE Dept., Queen's U.

T51.   X. Liu, "Design and Performance Evaluation of Multicast ATM Switch Architectures", Ph.D. Thesis, September 1996, ECE Dept., Queen's U (Facebook).

T50.   R. Lodge, "A Multi-Priority Hybrid Protocol for Satellite Switching Networks", M.Sc. Thesis, August 1996, Mathematics & Statistics Dept., Queen's U. (co-supervision with Dr. L.L. Campbell).

T49.   J. Jiang, "Routing Strategies over ATM Networks - Centralized Routing Vs Distributed Routing", M.Sc. Project Report, March 1996, ECE Dept., Queen's U.

T48.   C. Liu, "Virtual Connection Admission Control for Dynamic Routing over ATM Networks", M.Sc. Thesis, February 1996, ECE Dept., Queen's U.

T47.   M. Belkadi, "Towards High Performance Highly Reliable Interconnection Networks for ATM Switch Architectures", Ph.D. Thesis, August 1995, ECE Dept., Queen's U.

T46.   S. Yazid, "Design and Performance Evaluation of Fast Reservation Protocols for Resource Management in ATM Networks", Ph.D. Thesis, July 1995, ECE Dept., Queen's U.

T45.   D.W. Singer, "Performance Evaluation of Reactive Congestion Control for onboard Satellite Switching Networks", M.Sc Thesis, June 1995, ECE Dept., Queen's U.

T44.   C.-P. Ko, "Traffic Policing in ATM Using a Modified Leaky Bucket Scheme", M.A.Sc. Thesis, January 1995, EE Dept., University of Ottawa, Ottawa (Co-supervision with Dr. O.W.W. Yang).

T43.   A. Mozaffarian, "VHDL Modelling of an ATM Chip for Broadband Switch Architectures", M.Sc. Project Report, ECE Dept., Queen's U., January 1995.

T42.   H.F. Badran, "Design and Performance Analysis of Nonblocking ATM Switch Architectures", Ph.D. Thesis, December 1994, ECE Dept., Queen's U.

T41.   R.W. Kielback, "A Multicast Switch Design for Video Teleconferencing in ATM Networks", M.Sc. Thesis, October 1994, E&CE Dept., Royal Military College of Canada, Kingston, Ontario (Co-supervision with Dr. H. Rahman).

T40.   O.S.M. Kubbar, "Performance Evaluation of a Congestion Control Framework for ATM Networks", M.Sc. Thesis, September 1994, ECE Dept., Queen's U.

T39.   E.A. Fituri, "Design and Performance Evaluation of the Interleaved Bridged Shuffle Exchange Network for ATM Switch Architectures", M.Sc. Thesis, September 1994, ECE Dept., Queen's U.

T38.   R.Y. Awdeh, "Design and Performance Evaluation of High-Performance Broadband Packet Switch Architectures", Ph.D. Thesis, August 1994, ECE Dept., Queen's U (Hamdan Bin Mohammed Smart University, UAE).

T37.   M. Ahmed, "Admission Control Advisor in ATM Networks", M.Sc. Project Report, ECE Dept., Queen's U., December 1993.

T36.   M. Hamdan, "A Two-Level Markovian Model for Congestion Control Mechanisms in an On-Board Satellite Switching Systems", M.Sc. Project Report, ECE Dept., Queen's U., December 1993.

T35.   R.J. Fliesser, "Design of a Multicast Packet Switch Architecture for ATM Networks", M.Sc. Thesis, April 1993, E&CE Dept., Royal Military College of Canada, Kingston, Ontario (co-supervision with Dr. H. Rahman).

T34.   P. Grand, "Computer-Aided Tools for the Performance Evaluation of On-Board Satellite Switching and Communications Systems", M.Sc. Project Report, E.E. Dept., Queen's U., February 1993.

T33.   F. Fan, "Performance Evaluation of an ATM Service Node Architecture", M.Sc. Thesis, E.E. Dept., Queen's U., January 1993.

T32.   J. Li, "Performance Evaluation of Broadband Packet Switch Architectures Under a Hybrid Transfer Mode", M.Sc. Thesis, September 1992, E.E. Dept., Queen's University.

T31.   O. Elmahguibi, "Performance Evaluation of Multipath Multistage Interconnection Networks", M.Sc. Thesis, April 1992, E.E. Dept., Queen's University.

T30.   A. Qureshi, "Kalman Filtering for Digital Image Restoration", Ph.D. Thesis, December 1991, E.E. Dept., Queen's University.

T29.   E. Unteregelsbacher, "Investigations in Congestion Control for ATM Networks", Ph.D. Thesis, July 1991, E.E. Dept., Queen's U.

T28.   M.A. Nedvidek, "A Network Performance Advisor for Multimedia Communication Systems", M.Sc. thesis, July 1991, E.E. Dept., Queen's U.

T27.   A.I. Mahdaly, "Design and Performance Evaluation of Distributed Processing Systems Using Transputers", Ph.D. thesis, March 1991, Dept. of Telecommunications and Electronics, Helwan University, Cairo, Egypt.

T26.   S.M.I. Adhem, "Design Automation Tools for Testable VLSI Circuits", Ph.D. Thesis, August 1990, E.E. Dept., Queen's U.

T25.   A. Setiadi, "VLSI Implementation of a Two Wire Full Duplex Modem", M.Sc. Thesis, August 1990, E.E. Dept., Queen's U.

T24.   S.H. Lagtaa, "A Study on Multiplexing Bursty Traffic in Packet Switching Networks", M.Sc. Project Report, August 1990, E.E. Dept., Queen's U.

T23.   Y.-H. Cho, "Design and Implementation of a CMOS Ternary Read Only Memory", M.Sc. Thesis, July 1990, E.E. Dept., Queen's U.

T22.   M. Belkadi, "Modeling and Test Generation for Passing Gates Stuck-Open Faults", M.Sc. Thesis, July 1990, E.E. Dept., Queen's U.

T21.   S. Elsharkawy, "Inter-Hospital Multimedia Communication Networks Performance Evaluation", M.Sc. Thesis, April 1990, E.E. Dept., Queen's U.

T20.   R. Sturgeon, "DISDESNET: An Experimental Distributed Discrete Event Simulation System", M.Sc. Thesis, September 1989, Computing and Information Science Dept., Queen's U.

T19.   S.C.Y. Pan, "Three-Valued Logic for Self-checking CMOS Binary Circuits", M.Sc. Thesis, December 1987, E.E. Dept., Queen's U.

T18.   R.V.E. Van Veen, "In Search of Practical Fault Tolerant Hardware Design", M.Sc. Project Report, December 1987, E.E. Dept., Queen's U.

T17.   C. Rozon, "Design For Testability Techniques Applied to CMOS Ternary Logic", Ph.D. Thesis, June 1987, E.E. Dept., Queen's U.

T16.   B.P. Chew, "Design and Implementation of Three-Valued CMOS Logic Circuits", M.Sc. Thesis, December 1986, E.E. Dept., Queen's U.

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