KEYNOTES, INVITED TALKS & SEMINARS, TUTORIALS – since 2004

96. CAN-UAVs 2030 – Connected, Autonomous, Networked UAVs towards 2030s
4th Carleton Informal Workshop on Non-Terrestrial Networks
Ottawa, Canada, 20 December 2017

95. 5G Wireless Technologies
Carleton University Faculty of Engineering and Design Ingenious Talks
Ottawa, Canada, 01 November 2017

94. Ultra-Agile Infrastructure for Ultra-Fast Connectivity
Keynote speech
IEEE VTC2017-Fall Workshop on Next-Generation Backhaul/Fronthaul Networks (IEEE BackNets 2017)
Toronto, Canada, 24 September 2017

93. Ultra-Agile Infrastructure for Ultra-Fast Connectivity
Keynote speech
IEEE ICC 2017 Workshop on Flexible Networks (FlexNets)
Paris, France, 21 May 2017

92. 5G is Just Around the Corner; So What is Next?
Keynote speech
25th Signal Processing and Communications Applications Conference (SIU) 2017
Antalya, Turkey, 17 May 2017

91. 5G Panel
Panel speaker
IEEE 5G Summit Casablanca
Casablanca, Morocco, 11 May 2017

90. 5G is Just Around the Corner; So What is Next?
Keynote speech
The Third International Symposium on Ubiquitous Networking (UNET) 2017
Casablanca, Morocco, 10 May 2017

89. IMT-2020 Evaluation Process
Invited talk
WWRF (World Wireless Research Forum) Meeting #37
Kassel, Germany, 06 October 2016

88. The IoE Revolution and 5G+
Invited talk
WWRF Workshop on Wireless Technologies & Applications for the Internet of Everything
IEEE Vehicular Technology Conference (VTC) 2016-Fall
Montreal, Quebec, Canada, 19 September 2016

87. A Realist’s Views on 5G and Beyond
Invited talk
5G Core Network Summit
Ankara, Turkey, 15 June 2016

86. Emerging Concepts and Technologies towards 5G+ Wireless Networks
Half-day tutorial
IEEE International Conference on Communications (ICC) 2016
Kuala Lumpur, Malaysia, 27 May 2016

85. Emerging Concepts and Technologies towards 5G+ Wireless Networks
IEEE Malaysia ComSoc/VTS Joint Chapter Invited Seminar
Universiti Putra Malaysia
Serdang, Malaysia, 27 May 2016

84. 5G and Beyond Wireless Networks: Emerging Concepts and Technologies
Invited seminar
Spectrum, Information Technologies and Telecommunications Sector (SITT)
Innovation, Science and Economic Development Canada
Ottawa, ON, Canada, 19 April 2016

83. From Shannon’s Information Theory to the Information Age
The Shannon Conference (Claude Shannon Centenary 2016)
Ottawa, ON, Canada, 15 April 2016

82. Roadmap to 5G and Beyond: Global Perspectives
Panel talk
Executive Panel at IEEE Wireless Communications and Networking Conference (WCNC) 2016
Doha, Qatar, 04 April 2016

81. Promising PHY Research Directions for 5G+ Wireless
Keynote Speech
IEEE WCNC 2016 Workshop on Novel Waveform and MAC Design for 5G
Doha, Qatar, 03 April 2016

80. Emerging Concepts and Technologies towards 5G+ Wireless Networks
Half-day tutorial
IEEE Wireless Communications and Networking Conference (WCNC)
Doha, Qatar, 03 April 2016

79. Promising Research Directions for 5G+ Wireless Networks
Tampere University of Technology, Invited Seminar
Tampere, Finland, 20 February 2016

78. Emerging Concepts and Technologies towards 5G+ Wireless Networks
Half-day industry tutorial
IEEE Global Communications Conference (Globecom) 2015
San Diego, CA, USA, 10 December 2015

Panel talk
IEEE 5G Summit Toronto
Toronto, ON, Canada, 14 November 2015

76. The HetHetNets Framework for 5G+ Wireless Networks: Highly Heterogeneous Traffic, Unprecedented Congestion, and Novel Solutions
Invited Talk
Wireless World Research Forum, 35th Meeting (WWRF35)
Copenhagen, Denmark, 16 October 2015

75. 5G+ Wireless Networks: Roadmap and Enabling Technologies
74. 5G+ Wireless Networks: Roadmap and Enabling Technologies  
Invited Seminar  
Bilkent University  
Ankara, Turkey, 13 July 2015

73. 5G+ Wireless Networks: Roadmap and Enabling Technologies  
IEEE Communications Society Distinguished Lecture  
Hacettepe University  
Ankara, Turkey, 30 June 2015

72. Emerging Concepts and Technologies towards 5G Wireless Networks  
Half-day tutorial  
IEEE International Conference on Communications (ICC) 2015  
London, UK, 12 June 2015

71. Some Emerging Concepts and Technologies on 5G+ Wireless Networks  
IEEE Communications Society Distinguished Lecture  
Montreal, Quebec, Canada, 03 June 2015

70. The 5G+ HetHetNets Paradigm: Spatially Heterogeneous Traffic in Heterogeneous Cognitive Networks  
Wireless Research Group Seminar  
Carleton University  
Ottawa, Ontario, Canada, 25 May 2015

69. 5G Wireless  
Foxconn EBO Visit to Carleton University  
Ottawa, Ontario, Canada, 05 May 2015

68. The 5G+ HetHetNets Paradigm: Spatially Heterogeneous Traffic in Heterogeneous Cognitive Networks  
Keynote Speech  
10th International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM)  
Doha, Qatar, 22 April 2015

67. HetHetNets: Spatially Heterogeneous Traffic in Heterogeneous 5G+ Wireless Networks  
Keynote Speech  
Argela Workshop on “SDN, NFV, Cloud RAN & Other Enabling Technologies on the Path towards 5G”  
Istanbul, Turkey, 31 March 2015

66. HetHetNets: Spatially Heterogeneous Traffic in Heterogeneous Wireless Networks  
Invited Seminar  
Huawei Canada R&D Centre  
Ottawa, Ontario, Canada, 05 March 2015

65. HetHetNets: Spatially Heterogeneous Traffic in Heterogeneous Wireless Networks  
Invited Talk  
Tohoku University  
Sendai, Japan, 24 February 2015
64. 5G+ Wireless Networks: Some Emerging Concepts and Technologies
Invited Seminar
King Abdullah University of Science and Technology
Thuwal, Makkah Province, Saudi Arabia, 03 February 2015

63. Emerging Concepts and Technologies towards 5G Wireless Networks
Invited Seminar
Allen Vanguard
Ottawa, Ontario, Canada, 21 January 2015

62. Emerging Concepts and Technologies towards 5G Wireless Networks
IEEE Distinguished Lecture
IEEE Montreal Chapters of Vehicular Technology, Communications and Information Theory, and Signal Processing
Montreal, Quebec, Canada, 18 December 2014

61. Emerging Concepts and Technologies towards 5G Wireless Networks
Half-day tutorial
IEEE Global Communications Conference (Globecom) 2014
Austin, Texas, USA, 12 December 2014

60. Emerging Concepts and Technologies towards 5G Wireless Networks
IEEE Distinguished Lecture
IEEE Kingston Section, Queens University
Kingston, Ontario, Canada, 27 March 2014

59. Towards 5G Networks
Keynote Speech
3rd Defence, Security, and Information Technologies Inter-Industry Cooperation Conference
Istanbul, Turkey, 06 March 2014

58. Emerging Concepts and Technologies for 5G Wireless Networks
IEEE Vehicular Technology Society Distinguished Lecture
Vancouver, BC, Canada, 24 February 2014

57. Moving Forward in Wireless: Emerging Concepts & Technologies for Beyond-2020 Cellular Networks
Half-day tutorial
IEEE Global Communications Conference (Globecom) 2013
Atlanta, Georgia, USA, 13 December 2013

56. A Fresh Look into a Classical Topic: Signal Constellation Design in Advanced Wireless Network Architectures
Invited Talk
Huawei 5G Workshop
Ottawa, Canada, 14 November 2013

55. Emerging Concepts and Technologies for 5G Wireless Networks
Invited Talk
AveaLabs Innovation Days Seminar
Istanbul, Turkey, 25 July 2013

54. Emerging Concepts and Technologies for 5G Wireless Networks
Invited Seminar
Hacettepe University
Ankara, Turkey, 24 July 2013

   Half-day tutorial
   IEEE International Conference on Communications (ICC) 2013
   Budapest, Hungary, 13 June 2013

52. Moving Forward in Wireless: Emerging Concepts & Technologies for Beyond-2020 Cellular Networks
   IEEE Kitchener-Waterloo Section Distinguished Lecture
   Waterloo, Ontario, Canada, 03 May 2013

   Invited Seminar
   Defence Research and Development Canada (DRDC)
   Ottawa, 25 April 2013

50. Moving Forward in Wireless: Emerging Concepts & Technologies for Beyond-2020 Cellular Networks
   Cornell University Information Systems and Networks Invited Lecture
   Ithaca, New York, USA, 03 April 2013

49. Important Problems and Some Thoughts Towards Their Solutions in Beyond-2020 Wireless Networks
   Invited Seminar
   Telus, Technology Strategy and Operations
   Toronto, Ontario, Canada, 28 February 2013

48. Moving Forward in Cellular: 5G Networks
   Invited Seminar
   Telus Technology Summit 2013
   Toronto, Ontario, Canada, 28 February 2013

47. Emerging Research Direction in Wireless
   Invited Seminar
   Huawei Canada R&D Centre
   Ottawa, Ontario, Canada, 15 February 2013

46. Important Problems and Some Thoughts Towards Their Solutions in Beyond-2020 Wireless Networks:
   Invited Seminar
   Research In Motion, Advanced Technology Group
   Ottawa, Ontario, Canada, 13 December 2012

45. Important Problems and Some Thoughts Towards Their Solutions in Beyond-2020 Wireless Networks:
   Invited Talk
   Wireless World Research Forum Meeting 29 (WWRF29), Wireless World 2020 Workshop
   Berlin, Germany, 24 October 2012

44. The WINNER Experience
   Invited Talk
   ERA-CAN (European Research Area & Canada) Framework Program 7, Info Session
   Carleton University
   Ottawa, Ontario, Canada, 06 November 2012

Invited Talk
Huawei University Day Workshop
Huawei Canada Research Centre
Ottawa, Ontario, Canada, 28 August 2012

41. Moving Forward in Cellular: Emerging Concepts and Technologies for Beyond 4G Networks
Invited Seminar
Istanbul Technical University, Electronics & Communications Engineering Department
Istanbul, Turkey, 10 July 2012

40. Tips to Graduate Students:
Conducting Quality Research and On the Art and Science of Publishing in Scholarly Periodicals
Invited Seminar
Istanbul Technical University, Electronics & Communications Engineering Department
Istanbul, Turkey, 10 July 2012

Keynote Speech
Future Networks & Mobile Summit 2012, IC1004 Cooperative Radio Communications Workshop
Berlin, Germany, 04 July 2012

38. Moving Forward in Cellular: Emerging Concepts and Technologies for Beyond 4G Networks
Invited Seminar
Polytechnic University of Valencia, Institute of Telecommunications and Multimedia Applications (iTEAM)
Valencia, Spain, 31 May 2012

37. Tips to Graduate Students:
Conducting Quality Research and On the Art and Science of Publishing in Scholarly Periodicals
Invited Seminar
Polytechnic University of Valencia, Institute of Telecommunications and Multimedia Applications (iTEAM)
Valencia, Spain, 31 May 2012

36. Interdisciplinary Research in Engineering:
Its Importance, Mechanisms to Facilitate it, and its Impact on Engineering Education
Invited Seminars
TOBB University of Economy and Technology
Ankara, Turkey, 23 May 2012

35. Tips to Graduate Students:
Conducting Quality Research and On the Art and Science of Publishing in Scholarly Periodicals
Invited Seminars
King Saud University (KSU), Department of Electrical Engineering
Riyadh, Saudi Arabia, 15 May 2012

34. Moving Forward in Cellular: Emerging Concepts and Technologies for Beyond 4G Networks
Invited Seminars
King Saud University (KSU), Department of Electrical Engineering
Riyadh, Saudi Arabia, 14 May 2012

33. Moving Forward in Cellular: Emerging Concepts and Technologies for Beyond 4G Networks
Invited Seminars
Saudi Telecom Society
Riyadh, Saudi Arabia, 14 May 2012

32. 4G and Beyond-4G Wireless Networks
2-Day Short Course
Saudi Telecom Company (STC)
Riyadh, Saudi Arabia, 12 & 13 May 2012

31. Moving Forward in Cellular: Emerging Concepts and Technologies for Beyond 4G Networks
Invited Seminar
King Fahd University of Petroleum & Minerals (KFUPM), Department of Electrical Engineering
Dhahran, Saudi Arabia, 09 May 2012

30. Tips to Graduate Students:
Conducting Quality Research and On the Art and Science of Publishing in Scholarly Periodicals
Invited Seminar
King Fahd University of Petroleum & Minerals (KFUPM), Department of Electrical Engineering
Dhahran, Saudi Arabia, 09 May 2012

29. Interdisciplinary Research in Engineering:
Its Importance, Mechanisms to Facilitate it, and its Impact on Engineering Education
Panel Talk
The 5th Engineering and Technology Symposium
Cankaya University
Ankara, Turkey, 26 April 2012

Tutorial
20th IEEE Signal Processing and Communications Applications Conference
Fethiye, Mugla, Turkey, 18 April 2012

27. On the Art and Science of Publishing in Scholarly Periodicals: Tips to Graduate Students
Invited Seminar
TOBB University of Economy and Technology
Ankara, Turkey, 15 February 2012

26. Emerging Concepts and Trends in Wireless Communications Technologies and Education
Invited Talk
Aselsan Communications Technologies Workshop (Aselsan Haberlesme ve Bilgi Teknolojileri Calistayi)
Ankara, Turkey, 13–14 October 2011

RECORDS NOT AVAILABLE: May – October 2011

25. Emerging Concepts and Technologies for Beyond-4G Wireless Cellular Networks for Broadband
Connectivity
Invited Talk
IEEE 19th Signal Processing and Communications Applications Conference (SIU) 2011
Antalya, Turkey, 20–22 April 2011

24. Emerging Concepts and Technologies for Beyond-4G Wireless Cellular Networks for Broadband Connectivity
Invited Seminar
Hughes
Germantown, Maryland, USA, 14 March 2011

23. Emerging Concepts and Technologies for Beyond-4G Wireless Cellular Networks for Broadband Connectivity
Distinguished Speaker Seminar Series
School of Computing, Queen’s University
Kingston, Ontario, Canada, 20 January 2011

22. Cooperation is not Limited to Physical Layer: Distributive Networks with Cross-Layer and Across Network Cooperation and Coordination
Invited Seminar
Seminar Series on Signal Processing and Communications
Hacettepe University
Ankara, Turkey, 30 July 2010

21. Cooperation is not Limited to Physical Layer: Distributive Networks with Cross-Layer and Across Network Cooperation and Coordination
Invited Seminar
Huawei Canada Research Centre
Ottawa, Ontario, Canada, 11 June 2010

20. Cooperation is not Limited to Physical Layer: Distributive Networks with Cross-Layer and Across Network Cooperation and Coordination
Panel Talk
MIMO versus Cooperation Panel, IEEE Vehicular Technology Conference (VTC2010-Spring)
Taipei, Taiwan, 19 May 2010

19. The Building Blocks of the 5th Generation (5G) Wireless Networks for Affordable and Ubiquitous Broadband Connectivity
Plenary Speech
17th International Conference on Telecommunications (ICT 2010)
Doha, Qatar, 05 April 2010

18. The Building Blocks of the 5th Generation (5G) Wireless Networks for Affordable and Ubiquitous Broadband Connectivity
Plenary Speech
International Conference on Communication Technologies (ICCT 2010)
Riyadh, Saudi Arabia, 20 January 2010

17. The Building Blocks of the 5th Generation (5G) Wireless Networks for Affordable and Ubiquitous Broadband Connectivity
Invited Seminar
RIM (Research In Motion), Advanced Technology Lab
Ottawa, Ontario, Canada, 18 November 2009
16. The Building Blocks of the 5th Generation (5G) Wireless Networks for Affordable and Ubiquitous Broadband Connectivity
Seminar Talk, Defence Research & Development Canada (DRDC), Ottawa, Canada, 15 October 2009

Invited Seminar
Royal Institute of Technology (KTH)
Stockholm, Sweden, 12 June 2009

14. Broadband Wireless Connectivity: Right of Every Citizen"
Invited Seminar
Industry Canada, Spectrum Engineering
Ottawa, Canada, 06 May 2009

Invited Seminar
RIM (Research In Motion)
Kitchener/Waterloo, Canada, 21 November 2008

12. Wireless Research
Invited Seminar
Industry Canada
Ottawa, Canada, 23 October 2008

Panel Talk
Cross-Layer Design Panel, World Wireless Research Forum, Meeting #20
Ottawa, Ontario, Canada, 22 April 2008

10. An Overview of Radio Resource Management Techniques
Invited Seminar
Communications Research Centre of Canada (CRC)
Ottawa, Ontario, Canada, 27 March 2008

9. Wireless Multihop, Relay, Mesh Networks and Cooperative Communications: Fundamental Dynamics and Some Emerging Lines of Research
Invited Seminar
Yonsei University
Seoul, Korea, 29 August 2007

Executive Panel Talk
IEEE International Conference on Communications (ICC) 2006
Istanbul, Turkey, 13 June 2006

7. Nortel Networks - Carleton University Collaboration on Multihop/Relay/Mesh Networks
Invited Talk
Nortel Networks - Wireless Forum XV
Ottawa, Ontario, Canada, 09 November 2006
6. Nortel Networks - Carleton University Collaboration on Multihop/Relay/Mesh Networks
   Invited Talk
   Nortel Networks - Wireless Forum XIV
   Ottawa, Ontario, Canada, 09 September 2005

5. Infrastructure-Based Wireless Relay, Mesh, Multihop Networks
   Invited Seminar
   Enabling Technologies for 4G, Samsung Electronics, IT Center
   Suwon, Korea, 16 May 2005

4. Infrastructure-Based Relay/Mesh/Multihop Networks
   Invited Talk
   Wireless Industry Congress (WIC'04)
   Ottawa, Ontario, Canada, 18-19 October 2004

   Invited Talk
   Queen's University 22nd Biennial Symposium on Communications (QBSC'04)
   Kingston, Ontario, Canada, 01 June 2004