KEYNOTES, INVITED TALKS & SEMINARS, TUTORIALS – since 2004

110. 6G Networks for Ubiquitous Super-Connectivity
IEEE Distinguished Lecture
IEEE Jordan Section
Amman, Jordan, 20 November 2018

109. Integrated Terrestrial/Aerial 6G Networks for Ubiquitous 3D Super-Connectivity
IEEE Distinguished Lecture
IEEE Kingston Section, Queen’s University
Kingston, Ontario, Canada, 13 November 2018

108. Integrated Terrestrial/Non-Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity
Keynote Speaker
5G Summit R&D Russia
The 10th International Congress on Ultra Modern Telecommunications and Control Systems
Moscow, Russia, 05 November 2018

107. 5G Wireless and Beyond Panel
Panel speaker
21st ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems
Montreal, Canada, 30 October 2018

106. Integrated Terrestrial/Non-Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity
Keynote Speaker
21st ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems
Montreal, Canada, 30 October 2018

105. Integrated Terrestrial/Non-Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity
Invited Seminar (videoconference)
Intel, USA
02 October 2018

104. 5 Paradigms in ICT
Wireless Seminar Series
Carleton University
Ottawa, Canada, 23 July 2018

103. Integrated Terrestrial/Non-Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity
IEEE Communications Society Distinguished Lecture
Australian National University
Canberra, ACT, Australia, 09 July 2018

102. Integrated Terrestrial/Non-Terrestrial Super Networks of the Future for Ubiquitous High Rate Connectivity
Huawei Wireless Research Advisory Board Inaugural Meeting
Ottawa, Canada, 01 May 2018

101. Introduction to Research & Publishing: Part II
Wireless Seminar Series
Carleton University
Ottawa, Canada, 11 April 2018

100. Autonomous & Connected Vehicles: C-V2X: 4G → 5G → 6G
Panelist @ Charting AV/CV Technology Opportunities and Challenges Panel
Ottawa AV Summit 2018
Ottawa, Canada, 04 April 2018

Wireless Seminar Series
Carleton University
Ottawa, Canada, 21 March 2018

98. Non-Terrestrial Networks
Invited Seminar
Communications Research Centre Canada
Ottawa, Canada, 27 February 2018

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

96. 5G and Beyond Wireless Networks: Emerging Concepts and Technologies
Half-day tutorial
IEEE Globecom 2017
Singapore, 04 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
Half-day tutorial
IEEE Vehicular Technology Conference (VTC) Fall-2015
Boston, MA, USA, 06 September 2015

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
Invited Seminar
Research In Motion, Advanced Technology Group
Ottawa, Ontario, Canada, 13 December 2012

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

Keynote Speech
International Conference on Electrical and Computer Systems (ICECS), Keynote Speech
Ottawa, Ontario, Canada, 22 August 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
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 19\textsuperscript{th} 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
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