KEYNOTES, INVITED TALKS & SEMINARS, TUTORIALS – since 2004

234. High Altitude Platform Stations (HAPS) in Stratosphere: A Key Enabler for the IoT Revolution
Keynote
The 10\textsuperscript{th} IEEE Wireless World Forum on the Internet of Things (WF-IoT 2024)
10–13 November 2024 | Ottawa, Canada

233. HAPS (High Altitude Platform Station) Networks in Stratosphere: A Transformative Paradigm
Keynote
The 6\textsuperscript{th} International Conference on Communications, Signal Processing, and their Applications (ICCSPA’24)
08–11 July 2024 | Istanbul, Turkiye

232. TBD
Invited Speech
Workshop on Future Communications and 6G
24–25 June 2024 | Glasgow, UK

231. TBD
IEEE Distinguish Lecture
IEEE EMC/VTS/AP Chapter of Joint NJ Coast and Princeton Section
Spring 2024 | Holmdel, New Jersey, USA

230. High Altitude Platform Stations (HAPS) in Near-Space: Towards an Integrated Network of Networks
IEEE Vehicular Technology Society Distinguished Lecture
IEEE Vehicular Technology Society Chicago Chapter
29 May 2024 | Chicago, USA | virtual

229. NTN (Non-Terrestrial Networks): 6G and Beyond
Invited Seminar
The 32\textsuperscript{nd} IEEE Conference on Signal Processing and Communications Applications (SIU)
15–18 May 2024 | Tarsus, Turkiye

228. The Disruptive Side of 6G: NTN (Non-Terrestrial Networks)
Keynote
International Conference on the Design of Reliable Communication Networks (DRCN) 2024
06–09 May 2024 | Montreal, Quebec, Canada

227. TBD
Connectivity and Communication Technologies Panel
4th International ITS Summit (SUMMITS’24)
03 May 2024 | Ankara, Turkiye & hybrid

226. Stratosphere/ Near-Space: The Last Untapped Frontier in Networks
NSERC Create Program TRAVERSAL Seminar
01 May 2024 | Ottawa, Canada

225. TBD
Mastering the Future Communications Training Program
IEEE UAE Chapter Joint Society Processing Signal/Communications Section
25 April 2024 | Dubai, United Arab Emirates
224. High Altitude Platform Stations (HAPS) in Stratosphere: Towards an Integrated Network of Networks
Invited Seminar
IEEE Young Professionals
06 March 2024 | Hub350, Ottawa

223. Ottava'da Nasıl İş Bulurum Paneli
Türk Kanada Kültür Derneği (TKKD)
05 Mart 2024 | Virtual

222. The New NTN (Non-Terrestrial Networks) Discussion
Invited Seminar
Defence Research and Development Canada (DRDC)
21 February 2024 | Virtual

221. A New NTN Paradigm: HAPS / HIBS
Non-Terrestrial Networks (NTN) Panel
50th Wireless World Research Forum (WWRF 50)
10 January 2024 | Virtual

220. The New NTN (Non-Terrestrial Networks) Discussion
Invited Seminar
Macao Polytechnique University
11 December 2023 | Macao, SAR, China

219. The New NTN (Non-Terrestrial Networks) Discussion
IEEE ComSoc Workshop on 6G Technologies for Global Connectivity
27 November 2023 | Virtual

218. Disrupt or Be Disrupted Panel
Hub350 Annual Partnership Summit, Kanata North Business Association'
14 November 2023 | Ottawa, Ontario, Canada

217. Experts Panel on “3D Networks: Towards Integrated Land-Sky-Space Communications”
International Conference on 6G Networking (6GNet 2023)
19 October 2023 | Paris, France

216. The New NTN (Non-Terrestrial Networks) Discussion
Keynote
International Conference on 6G Networking (6GNet 2023)
19 October 2023 | Paris, France

215. The New NTN (Non-Terrestrial Networks): Research Directions
Invited Seminar
Advanced Wireless Technology, Dell
22 September 2023 | Virtual

214. The New NTN (Non-Terrestrial Networks): Research Directions
Invited Seminar
Honeywell
15 September 2023 | Ottawa, Ontario, Canada

213. Sharing Best Practices in Writing Technical Papers
Special Session: How to Write Technical Papers
IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2023
08 September 2023 | Toronto, Ontario, Canada

212. Empowering Vertical Industries from Stratosphere in the 6G Era
   **Special Session: 6G Empowered Vertical Industries**
   IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2023
   06 September 2023 | Toronto, Ontario, Canada

211. Next-After-Next Generation NTN Architecture for Ultra-Connected World 2040
   **Keynote Speech**
   Mega Constellation Satellite Network for 6G Workshop
   IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2023
   05 September 2023 | Toronto, Ontario, Canada

   Optical SatCom Consortium Canada (OSC) Talk
   05 Jul 2023 | Virtual

209. Integrated Terrestrial and Non-Terrestrial Networks: A Vision for Canada for 2030s and Beyond
   **Invited Talk**
   Communications Research Centre Canada (CRC)
   21 June 2023 | Ottawa, Ontario, Canada | In-person

208. Stratosphere: The Uncharted Frontier in Networks
   **Keynote Speech**
   The First International Conference on Advances in Electrical and Computer Engineering (ICAECE 2023)
   16 May 2023 | Tebessa, Algeria | Hybrid

207. A Potpourri of Views and Reflections on Wireless, AI, and My Own Career
   ODTU|METU Electrical and Electronics Engineering, EE494 Engineering Design II Course
   22 March 2023 | Hybrid

206. **Stratosphere: The Uncharted Frontier in Networks**
   IEEE Young Professionals
   14 March 2023 | Virtual

205. Universal Access: The Canadian Context
   **CAE (Canadian Academy of Engineering) Industry-Academia Workshop on Sustainable Intelligent Next G Systems**
   22 February 2023 | University of Toronto, Toronto, ON, Canada | In-Person

204. **Stratospheric Networks of the Future: It is More than Connectivity**
   **Keynote Speech**
   IEEE 41st International Conference on Consumer Electronics (ICCE)
   08 January 2023 | Las Vegas, NV, USA | In-Person

203. The Holy Grail of LEO Research: Direct Connectivity to Smartphones
   **Panel Speech**
   Mega-Constellation-Based Non-Terrestrial Network for 6G Panel
   IEEE Globecom 2022
   05 December 2022, Rio de Janeiro, Brazil | Hybrid

202. Stratospheric Networks of the Future: It is More than Connectivity
   **Keynote Speech**
   International Conference on Satellite Computing (**IEEE Satellite 2022**)
25-27 November 2022, Shenzhen, China | Hybrid

201. The Holy Grail of LEO Research: Direct Connectivity to Smartphones
Invited Talk, SCETalks Series
Carleton University, SCESoc
Ottawa, Canada, 10 November 2022

200. The Holy Grail of LEO Research: Direct Connectivity to Smartphones
10 November 2022 | Virtual

199. Stratospheric Networks of the Future: It is More than Connectivity
The High Throughput and Secure Networks (HTSN) Challenge Program Seminar
Virtual Event (Ottawa, Canada), 08 November 2022

198. The Future of Wireless Networks could be in the Clouds [YouTube]
Video interview [LinkedIn]
Ottawa Business Journal
Virtual Event (Ottawa), 06 November 2022

197. Stratospheric Networks of the Future: It is More than Connectivity
Keynote Speech
International Conference on Ubiquitous Networking (UNet’22)
Virtual Event (Montreal), 25 October 2022

196. Wireless Infrastructure of the Future: Integrated Terrestrial-HAPS-LEO Networks
Half-day Tutorial
27th Asia-Pacific Conference on Communications (APCC 2022)
Hybrid Event, Jeju Island, South Korea, 20 October 2022

195. 5G ve Ötesi Teknolojiler (5G and Beyond Technologies) [YouTube]
Türkiye Açık Kaynak Platformu (Türkiye Open Source Platform) Webinar [LinkedIn]
Virtual Event (Turkey), 18 October 2022

194. Panel: 6G Think Tank Outcomes – What should Canada do to lead future networks research?
Panelist on Accessibility
IEEE Future Networks World Forum 2022
Hybrid Event, Montreal, Canada, 13 October 2022

193. Integrated Terrestrial-HAPS-Satellite Networks of the Future: Towards A Sustainable ICT Ecosystem
Keynote Speech
The 10th Annual IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE 2022)
Hybrid Event, Winnipeg, Manitoba, Canada, 12-14 October 2022

192. Integrated Terrestrial-Aerial-Stratospheric-Space Networks of the Future:
Towards A Sustainable ICT Ecosystem
IEEE Consumer Technology Society Seminar
Virtual Event, 05 October 2022

191. 6G ve Sonrası Bilişim Ağlarının Mimarisi Üzerine Ufuk Turu
Webinar
Istanbul Aydin University
Virtual Event (Istanbul, Turkey), 28 September 2022
190. Integrated Terrestrial-HAPS-Satellite Networks of the Future: Towards A Sustainable ICT Ecosystem  
Department of Electrical and Computer Engineering, Queen’s University  
Virtual Event (Kingston, Canada), 23 June 2022

189. Integrated Terrestrial-HAPS-Satellite Networks of the Future: Towards A Sustainable ICT Ecosystem  
1st IEEE Workshop on Sustainable and Intelligent Green Internet of Things for 6G and Beyond  
IEEE VTC Spring 2022  
Helsinki, Finland, 19 June 2022

188. Integrated Terrestrial-HAPS-Satellite Networks of the Future: Towards A Sustainable ICT Ecosystem  
Invited Talk  
The 8th Future of Wireless Technology Workshop: Future of 5G Integrated Non-Terrestrial-Networks (NTNs)  
Virtual Event (Huawei, Sweden), 01 June 2022

187. Integrated Terrestrial-HAPS-Satellite Networks of the Future: Towards A Sustainable ICT Ecosystem  
[YouTube]  
Carleton Wireless Seminar  
Virtual Event (Carleton University), 31 May 2022

186. 6G NTN  
Invited Talk  
Huawei Future Wireless Research Workshop #8  
Hybrid Event (Toronto, Canada), 25 May 2022

185. Beyond-6G Wireless Infrastructure towards Sustainable and Smart Cities  
Workshop on Integrated UAVs into 5G and Beyond  
IEEE International Conference in Communications (ICC) 2022  
Virtual Event (Seoul, South Korea), 16 May 2022

184. Panel on Public / Private / Academia Collaboration  
HAPS Alliance Member Meeting  
Virtual Event, 14 April 2022

183. Beyond-6G Wireless Infrastructure towards Sustainable and Smart Societies  
Keynote Speech  
2022 IEEE Summit on Communications Futures  
Virtual Event, 15 January 2022

Sharing the Research Experience Seminars  
Department of Systems and Computer Engineering, Carleton University  
Virtual Event (Ottawa, Canada), 16 December 2021

181. 6G/B6G HAPS (High Altitude Platform Station) Networks for Integrated Communications, Computing, Sensing, Positioning, ... – Everything  
Keynote Speech  
Workshop on Emerging Topics in 6G Communications @ IEEE Globecom 2021  
Hybrid Event (In-Person and Virtual Conference), Madrid, Spain, 07 December 2021

180. Wireless Infrastructure of 2040s towards Sustainable and Smart Cities and Societies  
Keynote Speech  
CommNet 2021
Virtual Event, 03 December 2021

179. AI-enabled B6G Wireless Infrastructure for Green and Sustainable Cities & Societies
Invited Seminar
Huawei Future Wireless Research Workshop #7
Virtual Event (Ottawa, Canada), 30 November 2021

Sharing the Research Experience Seminars
Department of Systems and Computer Engineering, Carleton University
Virtual Event (Ottawa, Canada), 12 November 2021

177. Wireless Infrastructure of 2040s towards Green and Smart Societies
Invited Seminar
IPM’s 40th Anniversary Seminar Series
Macao Technical Institute, Macao, 15 October 2021

176. 23 Years @ Carleton | Research and Other Stuff
Invited Seminar
Department of Systems and Computer Engineering, Carleton University
Ottawa Canada | virtual event, 01 October 2021

175. Wireless Access Architecture 2040: Towards a Green ICT Ecosystem [YouTube]
Invited Seminar
IEEE ComSoc "Green Communications & Computing Technical Committee (TCGCC)" and "Machine Learning for Communications Emerging Technology Initiative (ETI-ML)" Joint Seminar
Virtual Event, 21 September 2021

174. 6G/B6G HAPS Networks: An Evolution with a Revolutionary Impact
Invited Talk
Looking beyond 5G – Future Technology Trends towards 6G Workshop
ITU-APT Foundation of India (IAFI)
16 September 2021

173. 6G/B6G HAPS (High Altitude Platform Station) Networks for Integrated Communications, Computing, Sensing, Positioning, … – Everything
Keynote Speech
5th Iranian Conference on Communications Engineering (ICCE 2021)
Virtual Event (Shahrood University of Technology, Iran), 15-16 September 2021

172. 6G/B6G HAPS Networks: An Evolution with a Revolutionary Impact [YouTube]
IEEE ComSoc Oregon Virtual Distinguished Lecture
Virtual Event (Oregon, USA), 14 September 2021

171. 6G/B6G HAPS Networks: An Evolution with a Revolutionary Impact [YouTube]
Keynote Speech
2021–2022 Carleton 6G Workshop #1: HAPS (High Altitude Platform Station) Networks
Virtual Event (Ottawa, Canada), 29 July 2020

170. Non-Terrestrial Networks: Key Enabler for the Smart Societies of the Future
Keynote Speech
IEEE/CIC International Conference on Communications in China (ICCC) 2021
Xiamen, China, 30 July 2020
169. Aerial Networks for Integrated Communications, Sensing, Computing, Navigation, ... – Everything
Invited Seminar
Huawei Future Wireless Research Workshop #6
Virtual Event (Ottawa, Canada), 29-30 June 2021

168. RSMA for Aerial Networks: Advanced PHY for Advanced RAN
Keynote Speech
Workshop on Rate Splitting Multiple Access @ IEEE ICC 2021
Virtual Event (Montreal, Canada), 18 June 2021

167. Integrated Terrestrial-HAPS-LEO Networks: Key Enabler for the Smart Societies of the Future
Invited Seminar
Macao Technical Institute, Macao, 16 June 2021

166. Non-Terrestrial Networks (NTN): The Next 20 Years
Half-day Tutorial
IEEE International Conference on Communications (ICC) 2021
Virtual Event (Montreal, Canada), 14 June 2021

165. Integrated Terrestrial-HAPS-LEO Networks: Key Enabler for the Smart Societies of the Future
Departmental Seminar
Department of Electronics Engineering, York University, UK, 09 June 2021

164. Integrated Terrestrial-Aerial-Satellite Networks: Key Enabler for the Super Smart Cities of the Future
Virtual Event, 27 May 2021

163. Integrated LEO-HAPS Networks: Best of Both Worlds
Invited Talk
Unmanned Aircraft Systems (UAS) Connectivity Technical Working Group (TWG) Meeting
United Nations World Food Programme (UB WFP)
Virtual Event, 26 May 2021

162. Integrated Terrestrial-Aerial-Satellite Networks: Key Enabler for the Super Smart Cities of the Future
Keynote Speech
5th International Conference on Internet of Things and Its Applications
Virtual Event (Isfahan, Iran), 19 May 2021

161. Wireless Networks: 5G and Beyond
Mini-Lecture
CU at Home (Carleton University)
Virtual Event (Ottawa, Canada), 18 May 2021

160. Non-Terrestrial Networks (NTN): Opportunities and Progress
IEEE ComSoc YP Fireside Chats (Mohamed-Slim Alouini and Halim Yanikomeroglu)
Virtual Event, 18 March 2021

159. Faster-Than-Nyquist (FTN) Signaling [YouTube]
Invited Seminar (Ebrahim Bedeer and Halim Yanikomeroglu)
IEEE ComSoc Full Duplex Emerging Technology Initiative (FD ETI)
Virtual Event, 05 February 2021

158. High Altitude Platform Station (HAPS) Networks of 2030s [YouTube]
Adventures in the SKY Session Invited Talk
2021 IEEE Summit on Communications Futures (ComFutures) 
Virtual Event, 16-17 January 2021 

157. LEO and HAPS Networks: 2030s Forecast 
Invited Talk 
IEEE ComSoc Satellite and Space Communications Technical Committee Meeting 
Virtual Event, 18 December 2020 

156. Wireless Access Architecture: The Next 20+ Years [YouTube] 
Current and Future Trends in 5G/B5G/6G Event 
IEEE Young Professionals Montreal 
Virtual Event (Montreal, Canada), 14 December 2020 

155. Collaboration with Industry – An Academic’s Perspective 
Fireside Chat 
IEEE ComSoc Young Professionals Session 
IEEE Global Communications Conference (Globecom) 2020 
Virtual Event (Taipei, Taiwan), 10 December 2020 

154. Information and Communications Technologies and Turkey [YouTube] [YouTube] 
Invited Seminar 
IEEE Young Professionals Turkey 
Virtual Event (Turkey), 07 December 2020 

153. Sharing the Research Experience 
Seminar 
Department of Systems and Computer Engineering, Carleton University 
Virtual Event (Ottawa, Canada), 07 December 2020 

152. Non-Terrestrial Networks (NTN): The Next 20 Years 
Half-day Tutorial 
IEEE Global Communications Conference (Globecom) 2020 
Hybrid Event, Taipei, Taiwan, 07-11 December 2020 

151. Wireless Access Architecture: The Next 20+ Years 
Keynote Speech 
ACM 4th International Conference on Future Networks and Distributed Systems (ICFNDS) 2020 
Virtual Event (St. Petersburg, Russia), 26 November 2020 

150. A Novel HAPS Vision [YouTube] 
Carleton University Wireless Seminar Series 
Virtual Event (Ottawa, Canada), 02 November 2020 

149. A Novel HAPS Vision 
Invited Seminar 
Huawei Wireless Research Advisory Board (WRAB) Workshop #5 
Virtual Event (Ottawa, Canada), 28-29 October 2020 

148. Wireless Access Architecture: The Next 20+ Years [YouTube] 
Departmental Seminar 
Department of Electrical and Electronics Engineering, Hacettepe University 
Virtual Event (Ankara, Turkey), 20 October 2020 

147. Wireless Access Architecture: The Next 20 + Years
Invited Seminar
WWRF (Wireless World Research Forum) Online Seminars – The Inaugural Seminar
Virtual Event, 13 October 2020

Keynote Speech
The International Workshop on Drone-Assisted Smart Backhaul Solutions for 5G and Beyond (DroneCom) in conjunction with IEEE Infocom 2020
Virtual Event (Toronto, Canada), 06 July 2020

145. Wireless Access Architecture: The Next 20+ Years
Invited Talk
WWRF (Wireless World Research Forum) Meeting No. 44
Virtual Event (Copenhagen, Denmark), 01 July 2020

144. Current Research Status and Open Issues on HAPS/UAV
Invited Seminar
Huawei Wireless Research Advisory Board (WRAB) Workshop #4
Virtual Event (Ottawa, Canada), 25 June 2020

143. Wireless Networks: A Look into the Next 20 Years
5G Open Talks Platform, Scientific and Technological Research Council of Turkey (TUBITAK)
Virtual Event (Istanbul, Turkey), 17 June 2020

142. Non-Terrestrial Networks (NTN) for 6G Ultra-Connectivity
Keynote Speech
3rd Workshop on Ultra-high speed, Low latency and Massive Communication for Futuristic 6G Networks (ULMC6GN) collocated with IEEE International Conference on Communications (ICC) 2020
Virtual Event (Dublin, Ireland), 11 June 2020

141. Non-Terrestrial Networks (NTN): The Next 20 Years [YouTube]
Carleton University Online Wireless Seminars
Virtual Event (Ottawa, Canada), 04 June 2020

140. **Wireless Access Architecture: The Next 20 Years**
Keynote Speech
IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom)
Virtual Event (Odessa, Ukraine), 28 May 2020

139. AI-Driven Personalization in Wireless Networks – Opportunities and Concerns
Invited Seminar
Office of the Privacy Commissioner Canada
Gatineau, Quebec, Canada, 26 February 2020

138. **Artificial Intelligence Enabled Integrated Aerial/Terrestrial Wireless Access Networks for 2030s**
Half-day Tutorial (with Dr. Haris Gacanin, Department Head, Nokia Bell Labs, Belgium)
IEEE Global Communications Conference (Globecom) 2019
Waikoloa, HI, USA, 09 December 2019

137. **Wireless Access Architecture: The Next 20+ Years**
Invited Seminar
Department of Electrical and Computer Engineering, University of Rochester
Rochester, New York, USA, 04 December 2019
136. Big Data and AI-driven Framework to Enable Personalization in Wireless Networks  
Invited Speaker  
**Ottawa Artificial Intelligence Alliance Second Annual Workshop**  
National Research Council Canada (NRC), Ottawa, Ontario, Canada, 28 November 2019

135. Digital 2030: The Future of Artificial Intelligence Panel  
Panelist  
Royal Society of Canada Celebration of Excellence and Engagement (COEE 2019) Symposium  
Fairmont Chateau Laurier Hotel, Ottawa, Ontario, Canada, 21 November 2019

134. Wireless Access Architecture: The Next 20 Years  
Seminar  
Carleton Wireless Seminar Series  
Carleton University, Ottawa, Ontario, Canada, 15 November 2019

133. Wireless Access Architecture: New Horizons  
Invited Seminar  
Huawei Wireless Research Advisory Board (WRAB) Workshop #3  
Stittsville, Ontario, Canada, 13 November 2019

132. **Predictions for the 6G Networks of 2030s based on the 4G and 5G Experience**  
Keynote Speech  
The 57th IEEE 5G Summit – Sheridan  
Brampton, Ontario, Canada, 22 October 2019

131. **A Disruptive Wireless Access Architecture for 6G Networks of 2030s**  
Keynote Speech  
Integrated Ground-Air-Space Borne Communications (IGASC) Workshop  
IEEE International Conference on Wireless for Space and Extreme Environments (WiSEE) 2019  
Ottawa, Ontario, Canada, 17 October 2019

130. **360° View of Innovative Mission Critical Mobile Applications APIs**  
Panel Chair  
IEEE PIMRC 2019  
Istanbul, Turkey, 10 September 2019

129. **Views on 6G Networks of the 2030s**  
Executive Panel Chair  
IEEE PIMRC 2019  
Istanbul, Turkey, 09 September 2019

128. **A Disruptive Wireless Access Architecture for 6G Networks of 2030s**  
Keynote Speech  
IEEE 5G Toronto Summit 2019  
Toronto, Ontario, Canada, 09 August 2019

127. **Integrated Aerial/Terrestrial 6G Networks for 2030s**  
Half-day Tutorial  
IEEE International Conference on Communications (ICC) 2019  
Shanghai, China, 24 May 2019

126. DDINS Workshop Panel at IEEE ICC 2019  
Panelist  
Shanghai, China, 20 May 2019
125. **AI & Data Analytics in Intelligent, Adaptive, and Efficient 6G Networks of 2030s**
Keynote Speech
1st International Workshop on Data Driven Intelligence for Networks and Systems (DDINS) at IEEE ICC 2019
Shanghai, China, 20 May 2019

124. Thoughts on Beyond 5G
Invited Seminar
Turkcell Technology
Istanbul, Turkey, 26 April 2019

123. **Integrated Space/Aerial/Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity in 2030s**
Keynote Speech
IEEE 27th Signal Processing and Communications Applications Conference (SIU) 2019
Sivas, Turkey, 24 April 2019

122. **Integrated Aerial/Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity in 2030s**
Half-day Tutorial
IEEE Wireless Communications & Networking Conference (WCNC) 2019
Marrakech, Morocco, 15 April 2019

121. Personalized Application Delivery in Intelligent, Adaptive, and Efficient 6G Networks
Panel: What will be on the Agenda for Data Day 16.0?
Carleton University Data Day 6.0
Ottawa, Ontario, Canada, 26 March 2019

120. Integrated Space/Aerial/Terrestrial 6G Networks in 2030s for Ubiquitous 3D Super-Connectivity
Invited Seminar
MDA Corporation
Montreal, Quebec, Canada, 26 February 2019

119. Connected and Autonomous Aerial Networks in 2030s for Ubiquitous 3D Super-Connectivity
Carleton 6G Workshops #2: Connected and Autonomous Aerial Networks
Ottawa, Ontario, Canada, 07 February 2019

118. **Integrated Aerial/Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity in 2030s**
Half-day Tutorial
IEEE Consumer Communications & Networking Conference (CCNC) 2019
Las Vegas, Nevada, USA, 14 January 2019

117. Thoughts on 6G
Keynote Speech
6G-PHY-Fest
Carleton University 6G Workshop
Ottawa, Canada, 18 December 2018

116. **Airborne Communication Networks**
Keynote Speech
IEEE Globecom 2018 Wi-UAV – 9th International Workshop on Wireless Networking and Control for Unmanned Autonomous Vehicles
Abu Dhabi, UAE, 09 December 2018

115. **Integrated Terrestrial/Aerial 6G Networks for Ubiquitous 3D Super-Connectivity in 2030s**
IEEE Distinguished Lecture
114. 6G Networks for Ubiquitous Super-Connectivity
IEEE Distinguished Lecture
IEEE Communications Society (ComSoc) Jordan Chapter
Princess Sumaya University of Technology (PSUT)
Amman, Jordan, 21 November 2018

113. 6G Networks for Ubiquitous Super-Connectivity [Part1] [Part2]
IEEE Distinguished Lecture
IEEE Communications Society (ComSoc) Jordan Chapter
Jordan Engineers Association (JEA)
Amman, Jordan, 21 November 2018

112. 6G Networks for Ubiquitous Super-Connectivity
IEEE Distinguished Lecture
IEEE Communications Society (ComSoc) Jordan Chapter
Jordan University of Science and Technology (JUST)
Irbid, Jordan, 21 November 2018

111. Key Enablers in Research and Innovation
Research and Innovation in the Information Age Panel
Panelist
The First Annual IEEE Jordan ComSoc Congress (JCSC) 2018
Amman, Jordan, 20 November 2018

110. 6G Networks for Ubiquitous Super-Connectivity
Keynote Speech
The First Annual IEEE Jordan ComSoc Congress (JCSC) 2018
Amman, Jordan, 20 November 2018

109. Integrated Terrestrial/Aerial 6G Networks for Ubiquitous 3D Super-Connectivity in 2030s
IEEE Distinguished Lecture
IEEE Communications Society (ComSoc) Kingston Chapter
Queen’s University
Kingston, Ontario, Canada, 13 November 2018

108. Integrated Terrestrial/Non-Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity
Keynote Speech
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
Montreal, Canada, 30 October 2018

106. Integrated Terrestrial/Non-Terrestrial 6G Networks for Ubiquitous 3D Super-Connectivity
Keynote Speaker
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. Five 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 Distinguished Lecture
IEEE Communications Society (ComSoc) Australian Capital Territory (ACT) Chapter
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 #1
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
Plenary Speech
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 (BackNets)  
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  
IEEE 25th Signal Processing and Communications Applications Conference (SIU) 2017  
Antalya, Turkey, 17 May 2017

91. **Views on 5G**  
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 Distinguished Lecture  
IEEE Malaysia ComSoc/VTS Joint Chapter
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 (VTC2015-Fall)
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 Distinguished Lecture
IEEE Communications Society Turkey Chapter
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 Distinguished Lecture
IEEE Communications Society (ComSoc) Montreal Chapter
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
EAI 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
Keynote Speech
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 Vehicular Technology, Communications and Information Theory, and Signal Processing Societies
Montreal Chapter
McGill University
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 Communications Society Kingston Section
Queen’s 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 Distinguished Lecture
IEEE Vehicular Technology Society (VTS) Vancouver Chapter
University of British Columbia
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 Distinguished Lecture
IEEE Communications Society (ComSoc) Kitchener-Waterloo Chapter
University of Waterloo
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
Invited Seminar
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
   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
   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
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