List of Publications, Patents and Presentations

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Books


Journal Papers


Submitted Journal Papers


Conference Papers


Patents


Non Refereed Contributions


Documents with Formally Acknowledged Contribution


**Non-Interview Technical Presentations**

Invited speaker at:

• The IEEE Canada, Hamilton Section
  Seminar Topic: Migrating to space-time communications: Potential gains and challenges
  September 2006

• The Centre for Advanced Systems and Technologies in Communications (SYTACom)
  McGill University, Montreal
  Seminar Topic: Non-coherent MIMO communications: Grassmannian constellations and efficient detection
  May 2007

• The Communications Research Centre, Industry Canada, Ottawa
  Seminar Topic: Efficient Non-coherent communications at high SNRs.
  December 2007

• The Digital Communication Centre—Communications Seminar Series (SPICOM Seminar)
  University of Minnesota, Minneapolis
  Seminar Topic: Grassmannian signalling for non-coherent MIMO communication:
  Constellation design and efficient detection
  February 2008

• Wireless Communications Group
  Carleton University, Ottawa
  Seminar Topic: Joint routing and resource allocation via superposition coding for wireless data networks.
  October 2009

• The Communications Research Centre, Industry Canada, Ottawa
  Seminar Topic: Jointly optimized routes and power allocations for narrowband wireless *ad hoc* communication networks.
  January 2010

• The Fields Institute
  Industrial Optimization Seminar Series
  University of Toronto, Toronto, Canada
  Seminar Topic: Optimizing the transmit covariance and the relay precoder in general AWGN full-duplex amplify-and-forward relay channels
  November 2010

• Nile University, Smart Village, Egypt
  Seminar Topic: Joint optimization of input covariance and relay precoder of full-duplex amplify-and-forward relays
  May 2011
• American University in Cairo, Egypt  
  December 2013  
  Seminar Topic: Routing, scheduling and power allocation in generic OFDMA wireless networks: Optimal design and efficiently computable bounds

• German University in Cairo, Egypt  
  December 2013  
  Seminar Topic: Cross-layer designs for Generic OFDMA wireless networks