



Chintha Tellambura

Curriculum

Vitæ (November 7, 2018)

Address Department of Electrical & Computer Engineering, University of Alberta,
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APPOINTMENTS

Professor 2007-present

Department of Electrical and Computer Engineering, University of Alberta, Canada

- Research: Cognitive radio, Cooperative Communications, Multi-Antenna Systems (MIMO), Fifth generation Wireless Networks, Multi-carrier modulation techniques
- Teaching: Probability and statistics, Digital and analog Communications, Wireless networks

Associate Professor 2002 - 2006

Department of Electrical and Computer Engineering, University of Alberta, Canada

- Research: Cognitive radio, Cooperative Communications, Multi-Antenna Systems (MIMO), Multi-carrier modulation techniques
- Teaching: Probability and statistics, Wireless Communications

Senior Lecturer 1999 - 2002

Faculty of Information Technology, Monash University, Australia

- Research: Multi-Antenna Systems, Multi-carrier modulation techniques
- Teaching: Data Communications

Lecturer 1997 - 1998

Faculty of Information Technology, Monash University, Australia

- Research: Multi-Antenna Systems, Multi-carrier modulation techniques
- Teaching: Data Communications

Post-doctoral Research Fellow 1994 - 1996

Department of Electronic and Electrical Engineering, University of Bradford, UK

Post-doctoral Research Fellow 1993 - 1994

Department of Electrical and Computer Engineering, University of Victoria, Canada

EDUCATION

- PhD in Electronic Engineering** 9/1993
University of Victoria, Canada
Thesis supervisor: Professor V. K. Bhargava
External examiner: Professor James K. Cavers
Thesis title: Performance analysis of trellis codes transmitted over fading channels
- M.Sc. in Digital Electronics** 1988
King's College, University of London, UK
- B.Sc. (1st class honors) in Electronics and Telecommunication Eng.** 1986
University of Moratuwa, Sri Lanka

AWARDS & EDITORSHIPS

1. Associate Editor, IEEE Access (2017–)
2. Fellow of the Canadian Academy of Engineering, 2017
3. Best Paper, IEEE International Conference on Communications, France, 2017.
4. McCalla Professorship, University of Alberta, 2012
5. Best Paper, IEEE International Conference on Communications, Canada, 2012
6. Fellow of the Institute of Electrical and Electronics Engineers (IEEE) for contributions to 'physical layer wireless communication theory', 2011
7. Killam Annual Professorship, University of Alberta, 2010
8. Area Editor, IEEE Transactions on Wireless Communications (2007-2012)
9. Editorial Advisory Board, IEEE Transactions on Wireless Communications (2012-2014)
10. Associate Editor, IEEE Transactions on Communications (1999 –2012)
11. Associate Editor, IEEE Transactions on Wireless Communications (2001 – 2012)
12. Associate Editor, IEEE Journal on Selected Areas of Communications (1999 - 2000)

PHD SUPERVISION

1. M. Ataeshojai*¹ (09/2021), "Massive MIMO based heterogeneous cellular networks"
2. A. Mohammadian (09/2021), "Generalized frequency division multiplexing based cellular networks"
3. A. R. Heidarpour* (09/2020), "Cooperative communications for future wireless systems"
4. M. H. Ardakani* (09/2020), "Relay assisted communications"
5. S. Silva* (09/2019), "Millimetre wave wireless 5G networks"
6. Yin Long (2016-2017), "Random matrix theory"- visiting PhD student
7. C. Ren (2015-2017), "Research on High-Performance Virtual Full-Duplex Relaying"- Lecturer, Beijing Engineering and Technology Research Center for Convergence Networks and Ubiquitous Services, University of Science and Technology Beijing, China.
8. K. Wu* (08/2018), "Machine learning for heterogeneous wireless networks",
9. K. Belbase* (12/2018), "Millimetre wave wireless 5G networks"
10. P. Herath* (04/2018), "Heterogeneous Cellular Networks and Device-to-Device Communication"
11. S. Kusaladharma (08/2017), "Stochastic Geometry Based Analysis of Candidate Technologies for 5G Cellular Systems," PDF, Concordia University, Canada.
12. Y. Dhungana (04/2016), "Modeling and analysis of heterogeneous and cognitive cellular networks," Research Engineer, Ericsson Canada Inc., Ottawa, Canada
13. V. Banjade* (01/2016), "Analysis of Non-Coherent Detectors for Opportunistic Spectrum Access in Broadband Wireless Networks," Research Scientist, Intel Labs, Portland, USA
14. Y. Cao (04/2015), "Beamforming for underlay two-way relay networks," Research associate, Department of Chemistry, University of Alberta, Canada
15. S. Han (08/2013), "Low complexity detection techniques for MIMO and cooperative networks", Assistant Professor at Institute of Automation, Chinese Academy of Science, Beijing, China
16. S. Atapattu* (08/2013), "Analysis of energy detection in cognitive radio networks" Research Fellow, Monash University of Melbourne, Australia
17. G. Amarasuriya* (08/2013), "Design and analysis of new wireless transmission strategies for cooperative relay networks", Assistant Professor, Southern Illinois University, Carbondale, IL, USA

¹* indicates co-supervision.

18. W. Xu (2011-2012), “Cooperative relay system and cognitive radio networks” Patent Attorney, China Patent Agent, Beijing City, China
19. D. Senaratne (09/2012), “New signal processing techniques for MIMO physical layer,” Systems Engineer, Qualcomm Inc., San Diego, USA
20. G. Wang (08/2011), “Channel estimation and training sequence design for one-way and two-way relay networks”, Associate Professor and associate dean, Beijing Jiaotong University, China
21. W. Zhang (04/2011), “Channel and frequency offset estimation for OFDM-based systems,” Research Engineer, Bell Mobility, Canada
22. A. Ghaderipoor (11/2009), “Unitary integration for unified MIMO capacity and performance analysis”, Engineer, Broadcom Corporation, Irvine, California, USA
23. Y. Fu* (03/2009), “Transmission precoding for interference mitigation in closed-loop MIMO OFDM systems,” Research Engineer, Qualcomm, San Diego, California, USA
24. L. Wang (10/2007), “Peak to average power ratio reduction in OFDM systems”, Research Engineer, SMART Technologies, Calgary, AB, Canada
25. D. Dao (12/2006), “Design of low complexity space-time block codes for wireless communication systems,” Senior Research Engineer, Huawei Technologies, Ottawa, Canada
26. K. Sathanathan (05/2003), Monash University, Melbourne, Australia, “OFDM for wireless communications (intercarrier interference and peak power reduction),” Research Engineer, NEC, Melbourne, Australia
27. A. Jayalath (09/2002), Monash University, Melbourne, Australia, “OFDM for wireless broadband communications: peak power reduction, spectrum and coding,” Senior Lecturer, School of Engineering Systems, Queensland University of Technology, Australia

MSC SUPERVISION

1. D. Wang (08/2020), “Wireless Communications for 5G systems,” MSc. student, University of Alberta, Canada
2. K. Pourtahmasi* (08/2017), “Exact Solutions for Certain Weighted Sum-rate and Common-rate Maximization Problems,” Research Assistant, University of Alberta, Canada
3. B. Banerjee (08/2017), “A Study of Optimized Caching and User Mobility in Wireless Cache-enabled Networks,” PhD student, University of Alberta, Canada
4. S. Silva* (09/2015), “Relay selection for MIMO and massive MIMO two-way relay networks”, PhD student, University of Alberta
5. M. Jin* (09/2013), “Parallel implementations of detection algorithms for MIMO systems on the graphics processing unit,” unknown status

6. M. Wang (12/2013), "Gauss-Chebyshev quadratures for Wireless performance analysis," Engineer, Telus, Edmonton, AB, Canada
7. S. Kusaladharma (08/2013), "Aggregate interference analysis for cognitive radio networks", PDF, Concordia University, Canada
8. Z. Abdeyazdan* (09/2012), "Improving energy efficiency in broadcasting and multicasting applications," Software Engineer, Cisco, Kanata, ON, Canada
9. K. Mahdaviani (08/2012), "Customized raptor code designs for finite lengths and practical settings", PhD student, University of Toronto, Canada
10. M. Soysa (08/2011), "Performance of dual hop relay systems with imperfect CSI", PhD student, University of California, San Diego, USA
11. X. Gong* (07/2010), "Joint bandwidth and power allocation in wireless communication networks", Assistant Professor, Electrical and Computer Engineering, Auburn University, USA
12. P Kalansuriya (08/2009), "Rate adaptive transmission in cooperative networks", Electronic Engineer, Clarinox Technologies, Australia
13. D. Ngo (07/2009), "Resource allocation for OFDMA-based multicast wireless systems", Lecturer, School of Electrical Engineering and Computer Science, University of Newcastle, Australia
14. T. Nechiporenko (08/2008), "Cooperative communication under adaptive transmission", Associate, Smart & Biggar Fetherstonhaugh, Montreal, Canada
15. K. Phan, (05/2008), "Resource allocation in wireless networks via convex programming", PhD student, McGill University, Canada
16. Y. Wu (09/2007), "Low-Complexity Detection for Multiple Antenna Wireless Communication Systems", Research Engineer, Honeywell, Edmonton, AB, Canada
17. M. Sharmin (09/2007), "Maximum Likelihood Detection in Communication using Meta-heuristic Search Methods", Engineer, Celanese EVA Performance Polymers, Edmonton, AB, Canada
18. M. Hajiaghayi (08/2007), "Unitary and Differential Unitary Space Time Modulation," Data Scientist, Microsoft, Seattle, USA
19. X. Deng (08/2007), "Performance Analysis of Orthogonal Space-Time Block-Coded MIMO Systems with Antenna Selection", Patent agent, Gowlings, Ottawa, Canada
20. S. Kaviani (12/2006), "Closed-loop transmit diversity for multiple antenna systems", Senior System Engineer, Qualcomm Inc., San Diego, USA
21. T. Cui (08/2005), "Efficient detection techniques for wireless communications", Systems Engineer, Qualcomm Inc., San Diego, USA

22. A. Alavi* (12/2004), “Decoding algorithms for peak reduction codes”, Research Engineer, Analog Devices Inc, Raleigh, NC, USA
23. Y. Chen (08/2004), “New diversity combiners and the impact of fading correlation on diversity systems,” Research engineer, Cisco, CA, USA
24. I. Shakeel (12/2002), Monash University, Melbourne, Australia, “Block coding to compensate non-linear distortions of DS-CDMA,” unknown status
25. X. Huang (08/2000), Monash University, Melbourne, Australia, “Efficient Wireless MAC protocols,” unknown status
26. K. Tanuvidaja (08/1999), Monash University, Melbourne, Australia, “Parallel simulation of CAC algorithms for ATM networks,” unknown status

PDF SUPERVISION

1. Dr. Jinming Wen (2016-2017), PDF, University of Toronto, Canada
2. Dr. Zeinab Zeinalkhani (2016-201), MITAC PDF, University of Alberta, Canada
3. Dr. Ahmad Abu Al Haija (2015-2016), PDF, University of Toronto, Canada
4. Dr. Saman Atapattu* (2013-2014), Research Fellow, University of Melbourne, Australia
5. Dr. H. Bagheri* (2010-2011), Senior Engineer, Huawei Technologies, Chicago, USA
6. Dr. A. Ghaderipoor (2009–2010), Systems Engineer, Broadcom Corporation, Irvine, California, USA
7. Dr. Z. Zhang (2007–2008), Professor, University of Science and Technology Beijing, China
8. Dr. W. Chen (2004–2006), Professor, Shanghai Jiaotong University, China

RESEARCH FUNDING [≈\$4M]

1. Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery, ‘Design, integration and analysis of wireless technologies for 5G networks’, \$ 325, 000 (PI, 2016–2021)
2. Mitacs, ‘Smart public toilets using Internet of things’, \$ 143, 333 (PI, 2016–2018)
3. Natural Sciences and Engineering Research Council of Canada (NSERC) CRD, ‘Practical network coding solutions’, \$ 330, 000 (co-PI, 2013–2015)
4. Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery, ‘Multiple antenna two-way relay networks’, \$ 385, 000 (PI, 2011–2016)

5. Alberta Advanced Education and Technology, 'Effective, efficient, and secure communications in broadband wireless ', \$ 50, 000 (PI, 2008–2009)
6. Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery, 'Efficient detection algorithms for MIMO and OFDM', \$ 278, 500 (PI, 2005–2011)
7. Natural Sciences and Engineering Research Council of Canada (NSERC) Strategic, 'Intelligent signal processing for ubiquitous high-capacity, heterogeneous scalable wireless networks', \$ 589, 500 (PI, 2007–2010)
8. Natural Sciences and Engineering Research Council of Canada (NSERC) Strategic, 'Enabling technologies for future wireless high throughput packet data access', \$ 1, 000, 000 (co-PI, 2002–2007)
9. Natural Sciences and Engineering Research Council of Canada (NSERC), 'OFDM for wireless communications ', \$ 112, 000 (PI, 2002–2006)
10. Canadian Foundation for Innovation , 'Infrastructure for establishing a communications research laboratory', \$ 285, 000 (PI, 2002–2006)
11. Australian Research Council, "Coding and signal design techniques for reducing signal peaks and interference," \$ 165,000 (PI, 2001–2003)

PUBLICATION STATISTICS

Updated from Google Scholar on November 7, 2018.

Papers	560
Citations	15078
G-index	105
H-index	67

PEER-REVIEWED JOURNAL PAPERS

238. S. Kusaladharma and C. Tellambura, "Interference and Outage analysis of Random D2D Networks underlying Millimeter Wave Cellular networks," to appear in *IEEE Transactions on Communications*, September 2018.
237. Z. Mobini, M. Mohammadi, and C. Tellambura, "Wireless-Powered Full-Duplex Relay and Friendly Jamming for Secure Cooperative Communications," *IEEE Transactions on Information Forensics and Security*, vol. 14, no. 3, pp. 621-634, March 2019.

236. P. Herath, C. Tellambura, and W. A. Krzymień, "Coverage probability analysis of three uplink power control schemes: Stochastic geometry approach", *EURASIP Journal on Wireless Communications and Networking*, December 2018.
235. A. Mohammadian, M. Baghani, and C. Tellambura, "Optimal power allocation of GFDM secondary links with Power Amplifier Nonlinearity and ACI," to appear in *IEEE Wireless Communications Letters*, 2018.
234. W. Chen, R. He, D. W. Matolak, C. Tellambura, and Z. Sheng, "IEEE Access Special Section Editorial: High Mobility 5G LTE-V: Challenges and Solutions," *IEEE Access*, vol. 6, pp. 40221-40225, 2018.
233. L. Li, J. Wen, X. Tang, and C. Tellambura, "Modified Sphere Decoding for Sparse Code Multiple Access," *IEEE Communications Letters*, vol. 22, no. 8, pp. 1544-1547, August 2018.
232. A. Reza Heidarpour, M. Ardakani and C. Tellambura, "Network-Coded Cooperation with Outdated CSI," *IEEE Communications Letters*, vol. 22, no. 8, pp. 1720-1723, August 2018.
231. W. Zhao, G. Wang, S. Atapattu, C. Tellambura and H. Guan, "Outage Analysis of Ambient Backscatter Communication Systems," *IEEE Communications Letters*, vol. 22, no. 8, pp. 1736-1739, August 2018.
230. A. Mohammadian, M. Baghani, and C. Tellambura, "Analysis and rate optimization of GFDM-based cognitive radios". *Transactions on Emerging Telecommunications Technologies*, June 2018.
229. K. Belbase, Z. Zhang, H. Jiang, and C. Tellambura, "Coverage Analysis of Millimeter Wave Decode-and-Forward Networks With Best Relay Selection," *IEEE Access*, vol. 6, pp. 22670-22683, 2018.
228. K. Wu, M. Tang, C. Tellambura, and D. Ma, "Cooperative Spectrum Sensing as Image Segmentation: A New Data Fusion Scheme," *IEEE Communications Magazine*, vol. 56, no. 4, pp. 142-148, April 2018.
227. Y. Long, Z. Chen, J. Fang, and C. Tellambura, "Data-driven Based Analog Beam Selection for Hybrid Beamforming under Mm-Wave Channels," *IEEE Transactions on Journal of Selected Topics in Signal Processing*, vol. 12, no. 2, pp. 340-352, May 2018.
226. S. Ma, G. Wang, R. Fan, and C. Tellambura, "Blind Channel Estimation for Ambient Backscatter Communication Systems," *IEEE Communications Letters*, vol. 22, no. 6, pp. 1296-1299, June 2018.
225. S. Silva, G. Amarasuriya, M. Ardakani and C. Tellambura, "Performance Analysis of Massive MIMO Two-way Relay Networks with Pilot Contamination, Imperfect CSI, and Antenna Correlation," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 6, pp. 4831-4842, June 2018.

224. K. P. Roshandeh, M. Ardakani and C. Tellambura, "Exact Solutions for Certain Weighted Sum-rate and Common-rate Maximization Problems," *IEEE Communications Letters*, vol. 22, no. 5, pp. 1026-1029, May 2018.
223. S. Kusaladharma and C. Tellambura, "Performance Characterization of Spatially Random Energy Harvesting Underlay D2D Networks with Transmit Power Control," *IEEE Transactions on Green Communications and Networking*, vol. 2, no. 1, pp. 87-99, March 2018.
222. T. Cui, F. Gao, A. Nallanathan, H. Lin and C. Tellambura, "Iterative Demodulation and Decoding Algorithm for 3GPP/LTE-A MIMO-OFDM Using Distribution Approximation," *IEEE Transactions on Wireless Communications*, vol. 17, no. 2, pp. 1331-1342, Feb. 2018.
221. B. Banerjee, A. Abu Al Haija, C. Tellambura and H. A. Suraweera, "Simple and Accurate Low SNR Ergodic Capacity Approximations," *IEEE Communications Letters*, vol. 22, no. 2, pp. 356 - 359, January 2018.
220. K. Belbase and C. Tellambura, "Two-way Relay Selection for Millimeter Wave Networks," *IEEE Communications Letters*, vol. 22, no. 1, pp. 201-204, January 2018.
219. S. Atapattu, P. Dharmawansa, C. Tellambura, and J. Evans, "Exact Outage Analysis of Multiple-User Downlink with MIMO Matched-Filter Precoding," *IEEE Communications Letters*, vol. 21, no. 12, pp. 2754-2757, Dec. 2017.
218. A. Reza Heidarpour, M. Ardakani and C. Tellambura, "Generalized Relay Selection for Network Coded Cooperation Systems," *IEEE Communications Letters*, vol. 21, no. 12, pp. 2742-2745, Dec. 2017.
217. S. Kusaladharma and C. Tellambura, "Performance Analysis of Cooperative Beacon Sensing Strategies for Spatially Random Cognitive Users," *IEEE Transactions on Cognitive Communications*, vol. 3, no. 4, pp. 585-598, Dec. 2017.
216. C. Ren, J. Chen, and C. Tellambura, "Spectrum Sharing with Device-to-Device Successive Relaying and Hybrid Complex Field Network Coding," *IEEE Transactions on Vehicular Technology*, Vol. 66, no. 9, pp. 7947 - 7963, March 2017.
215. S. Kusaladharma and C. Tellambura, "Secondary User Interference Characterization for Spatially Random Underlay Networks with Massive MIMO and Power Control," *IEEE Transactions on Vehicular Technology*, Vol, 66, no. 9, pp. 7897 - 7912, March 2017.
214. K. P. Roshandeh, A. Kuhestani, M. Ardakani and C. Tellambura, "Ergodic sum rate analysis and efficient power allocation for a massive MIMO two-way relay network," *IET Communications*, vol. 11, no. 2, pp. 211-217, January 2017.
213. A. A. Al Haija and C. Tellambura, "Small-Macro Cell Cooperation for HetNet Uplink Transmission: Spectral Efficiency and Reliability Analyses," *IEEE Journal on Selected Areas in Communications*, vol. 35, no. 1, pp. 118-135, January 2017.

212. Y. Dhungana and C. Tellambura, "Performance Analysis of SDMA with Inter-tier Interference Nulling in HetNets," *IEEE Transactions on Wireless Communications*, vol. 16, no. 4, pp. 2153 - 2167, January 2017.
211. A. A. Al Haija and C. Tellambura, "Decoding Delay and Outage Performance Analysis of Full-Duplex Decode-Forward Relaying: Backward or Sliding Window Decoding," *IEEE Transactions on Communications*, vol. 64, no. 11, pp. 4520-4533, November 2016.
210. G. Wang, F. Gao, R. Fan and C. Tellambura, "Ambient Backscatter Communication Systems: Detection and Performance Analysis," *IEEE Transactions on Communications*, vol. 64, no. 11, pp. 4836-4846, November 2016.
209. S. Kusaladharma, P. Herath and C. Tellambura, "Underlay Interference Analysis of Power Control and Receiver Association Schemes," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 11, pp. 8978-8991, November 2016.
208. P. Herath, W. A. Krzymień and C. Tellambura, "Coverage and Rate Analysis for Limited Information Cell Association in Stochastic-Layout Cellular Networks," *IEEE Transactions on Vehicular Technology*, vol. 65, no. 9, pp. 6962-6971, September 2016.
207. Y. Dhungana and C. Tellambura, "Multichannel analysis of cell range expansion and resource partitioning in two-tier heterogeneous cellular networks," *IEEE Transactions on Wireless Communications*, vol. 15, no.3 pp. 2394-2406, March 2016.
206. M. Mohammadi, H. A. Suraweera, Y. Cao, I. Krikidis, and C. Tellambura, "Full-duplex radio for uplink/downlink wireless access with spatially random nodes," *IEEE Transactions on Communications*, vol. 63, pp 5250-5266, December 2015.
205. T. M. Hoang, T. Q. Duong, H. A. Suraweera, C. Tellambura, and H. V. Poor, "Cooperative beamforming and user selection for improving the security of relay-aided systems," *IEEE Transactions on Communications*, vol. 63, no. 12, pp. 5039-5051, December 2015.
204. S. Atapattu, C. Tellambura, and H. Jiang "Unified Analysis of Low-SNR Energy Detection and Threshold Selection," *IEEE Transactions on Vehicular Technology*, ol. 64, no. 11, pp. 5006-5019, November 2015.
203. Y. Cao and C. Tellambura, "Cognitive beamforming in underlay two-way relay networks with multiantenna terminals," *IEEE Transactions on Cognitive Communications and Networking*, vol. 1, no. 3, pp. 294-304, September 2015.
202. V. R. S. Banjade, C. Tellambura, and H. Jiang, "Approximations for Performance of Energy Detector and p-norm Detector," *IEEE Communications Letters*, vol. 19, no. 10, pp. 1678-1681, October 2015.
201. V. R. S. Banjade, C. Tellambura, and H. Jiang, "Asymptotic Performance of Energy Detector in Fading and Diversity Reception," *IEEE Transactions on Communications*, vol.63, no.6, pp.2031-2043, June 2015

200. G. Wang, Q. Liu, R. He, F. Gao, and C. Tellambura, "Acquisition of Channel State Information in Heterogeneous Cloud Radio Access Networks: Challenges and Research Directions," *IEEE Wireless Communications Magazine*, vol.22, no.3, pp.100-107, June 2015.
199. Y. Cao and C. Tellambura, "Outage analysis of ZFB-MRT/MRC Underlay Two-Way Relay Systems," *IEEE Communications Letters*, vol.19, no.6, pp.1049-1052, June 2015.
198. S. Han, C. Tellambura, and T. Cui, "SNR-Dependent Radius Control Sphere Detection for MIMO Systems and Relay Networks," *Transactions on Emerging Telecommunications Technologies*, vol. 26, no. 3, pp. 389-402, March 2015.
197. Yun Cao and C. Tellambura, "Joint Distributed Beamforming and Power Allocation in Underlay Cognitive Two-Way Relay Links Using Second-Order Channel Statistics," *IEEE Transactions on Signal Processing*, vol.62, no.22, pp.5950-5961, November 2014
196. V. S. Banjade, C. Tellambura, and H. Jiang, "Performance of p-norm Detector in AWGN, Fading and Diversity Reception," *IEEE Transactions on Vehicular Technology*. Vol. 63, no.7, pp 3209-3222, September 2014.
195. S. Kusaladharma and C. Tellambura, "A Multiple-Ring Model for Cognitive Radio Aggregate Interference," *IEEE Communications Letters*, vol.18, no.4, pp.596-599, April 2014.
194. V. N. Q. Bao, T.Q. Duong, and C. Tellambura, "On the Performance of Cognitive Underlay Multihop Networks with Imperfect Channel State Information," *IEEE Transactions on Communications*, vol.61, no.12, pp.4864-4873, December 2013.
193. G. Amarasuriya, C. Tellambura, and Masoud Ardakani, "Multi-Way MIMO Amplify-and-Forward Relay Networks With Zero-Forcing Transmission," *IEEE Transactions on Communications*, vol. 61, no.12, pp.4847-4863, December 2013.
192. Y. Dhungana and C. Tellambura, "Uniform Approximations for Wireless Performance in Fading Channels," *IEEE Transactions on Communications*, vol.61, no.11, pp.4768-4779, November 2013.
191. S. Kusaladharma and C. Tellambura, "Impact of Beacon Misdetection on Aggregate Interference for Hybrid Underlay-Interweave Networks," *IEEE Communications Letters*, vol.17, no.11, pp.2052-2055, November 2013.
190. G. Amarasuriya, C. Tellambura, and M. Ardakani, "Sum rate analysis of two-way MIMO AF relay networks with zero-forcing," *IEEE Transactions on Wireless Communications*, vol.12, no.9, pp.4456-4469, September 2013.
189. S. Atapattu, Y. Jing, H. Jiang, and C. Tellambura, "Relay Selection and Performance Analysis in Multiple-User Networks," *IEEE Journal on Selected Areas in Communications*, vol. 31, no. 8, pp 1517-1529, August 2013.
188. D. Senaratne and C. Tellambura, "GSVD beamforming for two-user MIMO downlink channel," *IEEE Transactions on Vehicular Technology*, vol. 62, no. 6, pp 2596-2606, July 2013.

187. T. Cui, S. Han, and C. Tellambura, "Probability-distribution-based node pruning for sphere decoding," *IEEE Transactions on Vehicular Technology*, vol. 62, no. 4, pp 1586-1596, May 2013.
186. Y. Dhungana and C. Tellambura, "Rational Gauss-Chebyshev quadratures for wireless performance analysis," *IEEE Wireless Communications Letters*, vol. 2, no. 2, pp 215-218, April 2013.
185. S. Atapattu, Y. Jing, H. Jiang, and C. Tellambura, "Relay selection schemes and performance analysis approximations for two-way networks," *IEEE Transactions on Communications*, vol. 61, no. 3, pp 987-998, March 2013.
184. S. Kusaladharma and C. Tellambura, "On Approximating the cognitive radio aggregate interference," *IEEE Wireless Communications Letters*, vol. 2, no. 1, pp 58-61, February 2013.
183. S. Kusaladharma and C. Tellambura, "Aggregate interference analysis for underlay cognitive radio networks," *IEEE Wireless Communications Letters*, vol. 1, no. 6, pp 641-644, December 2012.
182. Y. Dhungana and C. Tellambura, "New simple approximations for error probability and outage in fading," *IEEE Communications Letters*, vol. 16, no. 11, pp. 1760-1763, November 2012.
181. G. Wang, F. Gao, R. Xu, and C. Tellambura. "Doubly selective channel estimation for amplify-and-forward relay networks," *EURASIP Journal on Advances in Signal Processing*, November 2012.
180. S. Han, T. Cui, and C. Tellambura, "Improved K-Best Sphere Detection for Uncoded and Coded MIMO Systems," *IEEE Wireless Communications Letters*, vol. 1, no. 5, pp. 472-475, October 2012.
179. G. Amarasuriya, C. Tellambura, and M. Ardakani, "Performance Analysis of Pairwise Amplify-and-Forward Multi-Way Relay Networks," *IEEE Wireless Communications Letters*, vol. 1, no. 5, pp. 524-527, October 2012.
178. Y. Dhungana, N. Rajatheva, and C. Tellambura, "Performance Analysis of Antenna Correlation on LMS-Based Dual Hop AF MIMO systems," *IEEE Transactions on Vehicular Technology*, vol. 61, no. 8, pp. 3590-3602, October 2012.
177. K. Mahdavian, M. Ardakani, and C. Tellambura, "On Raptor Code Design for Inactivation Decoding," *IEEE Transactions on Communications*, vol. 60, no. 9, pp. 2377-2381, September 2012.
176. Y. Wang, W. Chen, and C. Tellambura, "Genetic Algorithm Based Nearly Optimal Peak Reduction Tone Set Selection for Adaptive Amplitude Clipping PAPR Reduction," *IEEE Transactions on Broadcasting*, vol. 58, no. 3, pp. 462-471, September 2012.

175. G. Amarasuriya, C. Tellambura, and M. Ardakani, "Two-Way Amplify-and-Forward Multiple-Input Multiple-Output Relay Networks with Antenna Selection," *IEEE Journal on Selected Areas in Communications*, vol. 30, no. 8, September 2012.
174. W. Xu, J. Zhang, P. Zhang, and C. Tellambura, "Outage Probability of Decode-and-Forward Cognitive Relay in Presence of Primary User's Interference," *IEEE Communications Letters*, vol. 16, no. 8, pp. 1252-1255, August 2012.
173. G. Amarasuriya, C. Tellambura, and M. Ardakani, "Performance Analysis of Hop-by-hop Beamforming for Dual-hop MIMO AF Relay Networks," *IEEE Transactions on Communications*, vol. 60, no. 7, pp. 1823-1837, July 2012.
172. L. Vijayandran, P. Dharmawansa, T. Ekman, and C. Tellambura, "Analysis of Aggregate Interference and Primary System Performance in Finite Area Cognitive Radio Networks," *IEEE Transactions on Communications*, vol. 60, no. 7, pp. 1811-1822, July 2012.
171. H. Bagheri, M. Ardakani, and C. Tellambura, "Resource Allocation for Two-Way AF Relaying with Receive Channel Knowledge," *IEEE Transactions on Wireless Communications*, vol. 11, no. 6, pp. 2002-2007, June 2012.
170. D. Senaratne and C. Tellambura, "Spatial Multipath Resolution with Space Time Block Codes," *IEEE Wireless Communications Letters*, vol. 1, no. 3, pp. 249-252, June 2012.
169. A. Ghaderipoor, C. Tellambura, and A. Paulraj, "On the Application of Character Expansions for MIMO Capacity Analysis," *IEEE Transactions on Information Theory*, vol. 58, no. 5, pp. 2950-2962, May 2012.
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EXTERNAL EXAMINATIONS

1. Y. Zhang -PhD 08/2011, "Intercarrier Interference Reduction and Channel Estimation in OFDM Systems," University of Victoria, Victoria, BC, Canada.
2. M. Mohammadnia-Avval -PhD 07/2011, "Analysis and Design of OFDM Systems: Loading and Nonlinear Distortion Mitigation," University of British Columbia, Vancouver, BC, Canada.
3. V. Bohara -PhD 06/2011, "Design and Implementation of Cooperative Wireless Networks," Nanyang Technological University, Singapore.
4. S. Al-Ahmadi -PhD 07/2010, "Composite Fading Channel Modeling and Information Capacity Analysis for Distributed Antenna Architectures in Cellular Networks", Carleton University, Ottawa, Canada.
5. A. Ghassemi -PhD 07/2008, "IFFT-based Techniques for Peak Power Reduction in OFDM Communication systems," University of Victoria, Victoria, BC, Canada.
6. A. Basri -PhD 06/2008, "Wireless Communication over Fading Channels with Imperfect Channel Estimates," University of Toronto, Toronto, ON, Canada.
7. L. Gor - PhD 09/2007, "Complexity Reduction in Multiple Input Multiple Output Algorithms," Victoria University, Melbourne, Australia.
8. V. Pauli - PhD 10/2007, "Design and Analysis of Low-Complexity Noncoherent Detection Schemes," Technische Fakultät der Universität Erlangen-Nürnberg.
9. S. Song -PhD 09/2005, "System design for ultra wideband wireless communications," City University of Hong Kong, Hong Kong.

10. Y. Kou – PhD 08/2005, “Peak-to-average power ratio and intercarrier-interference reduction algorithms for orthogonal frequency-division multiplexing systems,” University of Victoria, Canada.
11. S. Sureshkumar –PhD 07/2005, “Techniques to reduce multiple-access interference in multi-carrier CDMA systems,” University of Manitoba, Winnipeg, Canada.
12. K. Zhang – PhD 05/2004, “Performance analysis and enhancement of multicarrier transmission systems,” Nanyang Technological University, Singapore.
13. L. Huang –PhD 03/2003, “Blind channel estimation and multiuser detection for multirate CDMA communications,” Victoria University of Technology, Melbourne, Australia.
14. J. Shentu – PhD 12/2001, “Frequency offset estimation for OFDM, PCC OFDM and overlap PCC OFDM,” La Trobe University, Melbourne, Australia.
15. L. Soon – PhD 08/2000, “Families of binary and multiple-valued sequences with good correlation properties for use in digital communications,” Nanyang Technological University, Singapore.
16. Y. Ma -MSc 10/2005, “Multiple-symbol differential detection for differential space-time modulation in the presence of multiple cochannel interferers,” McGill University, Montreal, PQ, Canada.
17. K. Anderson -MSc 10/2000, “Practical multiuser detection algorithms for CDMA,” Victoria University of Technology, Australia.
18. J. Kong MSc 07/2000, “Weight patterns and interleaver design for parallel concatenated convolutional codes,” University of Canterbury, New Zealand.
19. T. Salim -MSc 04/2000, “Timing synchronization of PCC OFDM,” La Trobe University, Melbourne, Australia.

CONFERENCE ACTIVITIES

171. Technical program committee, Waveform and signal processing track, *Military Communications Conference*, Baltimore, MD, USA. 11/2016
170. Technical program committee, *Asia-Pacific Conference on Communications*, Yogyakarta, Indonesia, 08/2016
169. Technical program committee, Fundamentals and PHY track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Valencia, Spain, 09/2016
168. Technical program committee, Cognitive radio for future generation networks and spectrum workshop, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Valencia, Spain, 09/2016

167. Technical program committee, *International Symposium on Wireless Communication Systems*, Poznan, Poland , 09/2016
166. Technical program committee, Communication theory symposium, *IEEE Global Communications Conference*, Washington, DC, USA, 12/2016
165. Technical program committee, Cognitive radio and networks symposium, *IEEE Global Communications Conference*, Washington, DC, USA, 12/2016
164. Technical program committee co-chair, *Biennial Symposium on Communications*, Kelowna, BC, Canada, 06/2016
163. Technical program committee, *International Conference on Telecommunications*, Thessaloniki, Greece, 05/2016
162. Technical program committee, *IEEE International Symposium on Information Theory*, Barcelona, Spain, 07/2016
161. Technical program committee, *IEEE Canadian Conference on Electrical and Computer Engineering*, Vancouver, BC, Canada, 05/2016
160. Technical program committee, Signal processing for communications symposium, *IEEE International Conference on Communications*, Kuala Lumpur, Malaysia, 05/2016
159. Technical program committee, Wireless communications symposium, *IEEE International Conference on Communications*, Kuala Lumpur, Malaysia, 05/2016
158. Technical program committee, Communications theory symposium, *IEEE International Conference on Communications*, Kuala Lumpur, Malaysia, 05/2016
157. Technical program committee, Communications theory symposium, *IEEE Global Communications Conference* San Diego, USA, 12/2015
156. Technical program committee, Wireless communications symposium, *IEEE Global Communications Conference* San Diego, USA, 12/2015
155. Technical program committee, Workshop on 5G heterogeneous and small cell networks, *IEEE Global Communications Conference* San Diego, USA, 12/2015
154. Technical program committee, Fundamentals and PHY track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Hong Kong, 08/2015
153. Technical program committee, Waveform and signal processing track, *Military Communications Conference*, Tampa, FL, USA, 10/2015
152. Technical program committee, *International Symposium on Wireless Communication Systems*, Brussels, Belgium, 08/2015
151. Technical program committee, *Canadian Workshop on Information Theory*, St. John's, NL, Canada, 07/2105

150. Technical program committee, Wireless communications symposium, *IEEE International Conference on Communications*, London, UK, 06/2015
149. Technical program committee, Signal processing for communications symposium, *IEEE International Conference on Communications*, London, UK, 06/2015
148. Technical program committee, Communications theory symposium, *IEEE International Conference on Communications*, London, UK, 06/2015
147. Technical program committee, Workshop on small cell and 5G networks, *IEEE International Conference on Communications*, London, UK, 06/2015
146. Technical program committee, *International Conference on Telecommunications*, Sydney, Australia, 04/2015
145. Technical program committee, *IEEE International Conference on Communication, Networks, and Satellite*, Jakarta, Indonesia, 11/2014
144. Technical program committee, *IEEE Consumer Communications and Networking Conference*, Las Vegas, Nevada, USA, 01/2015
143. Technical program committee, *International Conference on Communication Systems*, Macau, China, 11/2014
142. Technical program committee, *IEEE Region 10 Technical Symposium*, Kuala Lumpur, Malaysia, 014/2014
141. Technical program committee, Waveform and Signal Processing Track, *Military Communications Conference*, Baltimore, USA, 10/2014
140. Technical program committee, Fundamentals and PHY Track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Washington, DC, USA, 09/2014
139. Technical program committee, Wireless communications symposium, *IEEE Global Communications Conference*, Austin, USA, 12/2014
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136. Technical program committee, *European Signal Processing Conference*, Lisbon, Portugal, 09/2014
135. Technical program committee, *International Symposium on Information Theory*, Honolulu, HI, USA, 07/2014
134. Technical program committee, *IEEE Canadian Conference on Electrical and Computer Engineering*, Toronto, Canada, 05/2014

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130. Technical program committee, *International Workshop on High Mobility Wireless Communications*, Shanghai, China, 11/2013
129. Technical program committee, Technical program committee, Fundamentals and PHY track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, London, UK, 09/2013
128. Technical program committee, Mobile and wireless networks track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, London, UK, 09/2013
127. Technical program committee, Wireless networking symposium, *IEEE Global Communications Conference Atlanta*, USA, 12/2013
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116. Technical program committee, *International Conference on Communication Systems*, Singapore, 11/2012
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114. Technical program committee, Waveform and signal processing track, *Military Communications Conference*, Florida, USA, 10/2012
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112. Technical program committee, Signal processing for communications symposium, *IEEE Global Communications Conference*, California, USA, 12/2012
111. Technical program committee, Communication theory symposium, *IEEE Global Communications Conference*, California, USA, 12/2012
110. Technical program committee, Signal processing for communications symposium, *IEEE International Communications Conference in China*, Beijing, China, 08/2012
109. Technical program committee, *International Symposium on Wireless Communication Systems*, Paris, France, 08/2012
108. Technical program committee, PHY and fundamentals track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Sydney, Australia, 09/2012
107. Technical program committee, *Queens Biennial Symposium on Communications*, Kingston, ON, Canada, 05/2012
106. Technical program committee, PHY and fundamentals track, *IEEE Wireless Communications & Networking Conference*, Paris, France, 04/2012
105. Technical program committee, Signal processing for communications symposium, *IEEE International Conference on Communications*, Ottawa, Canada, 06/2012
104. Technical program committee, Communications theory symposium, *IEEE International Conference on Communications*, Ottawa, Canada, 06/2012
103. Technical program committee, *ACM International Conference on Modelling, Analysis and Simulation of Wireless and Mobile Systems*, Miami Beach, FL, USA, 11/2011
102. Technical program committee, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Toronto, Canada, 09/2011
101. Technical program committee, Signal processing for communications symposium, *IEEE Global Communications Conference*, Houston, USA, 12/2011

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99. Technical program committee, *IEEE Sarnoff Symposium*, Princeton, NJ, USA, 05/2011
98. Technical program committee, *Canadian Workshop on Information Theory*, Kelowna, BC, Canada, 05/2011
97. Technical program committee, *Wireless Telecommunications Symposium*, New York, NY, USA, 04/2011
96. Technical program committee, PHY and fundamentals track, *IEEE Wireless Communications & Networking Conference*, Cancun, Mexico, 03/2011
95. Technical program committee, Wireless networking symposium *IEEE International Conference on Communications*, Kyoto, Japan, 06/2011
94. Technical program committee, Wireless communications symposium, *IEEE International Conference on Communications*, Kyoto, Japan, 06/2011
93. Technical program committee, Signal processing for communications symposium, *IEEE International Conference on Communications*, Kyoto, Japan, 06/2011
92. Technical program committee, Communication theory symposium, *IEEE International Conference on Communications*, Kyoto, Japan, 06/2011
91. Technical program committee, Signal processing symposium, *IEEE Global Communications Conference*, Florida, FL, USA, 12/2010
90. Technical program committee, Communication theory symposium, *IEEE Global Communications Conference*, Florida, FL, USA, 12/2010
89. Technical program committee, Wireless communications symposium, *IEEE Global Communications Conference*, Florida, USA, 12/2010
88. Technical program committee, Workshop on mobile computing and emerging communication networks, *IEEE Global Communications Conference*, Florida, FL, USA, 12/2010
87. Technical program committee, *International Conference on Wireless Communications & Signal Processing*, Suzhou, China, 10/2010
86. Technical program committee, Waveform and signal processing track, *Military Communications Conference*, CA, USA, 10/2010
85. Technical program committee, *International Symposium on Turbo Codes & Iterative Information Processing*, Brest, France, 09/2010
84. Technical program committee, Fundamentals and PHY track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Istanbul, Turkey, 09/2010

83. Technical program committee, *Queens Biennial Symposium on Communications*, Kingston, ON, Ontario, Canada, 05/2010
82. Technical program committee, Signal processing for communications symposium, *IEEE International Conference on Communications*, Cape Town, South Africa, 05/2010
81. Technical program committee, Signal processing symposium, *IEEE Global Communications Conference*, Honolulu, HI, USA, 12/2009
80. Technical program committee, Communication theory symposium, *IEEE Global Communications Conference*, Honolulu, HI, USA, 12/2009
79. Technical program committee, Wireless communications symposium, *IEEE Global Communications Conference*, Honolulu, HI, USA, 12/2009
78. Technical program committee, *European Wireless Conference*, Aalborg, Denmark, 05/2009
77. Technical program committee, *International Symposium on Information Theory*, Seoul, Korea, 07/2009
76. Technical program committee, *Canadian Workshop on Information Theory*, Ottawa, ON, Canada, 05/2009
75. Technical program committee, *Communications Networks and Services Research Conference*, Moncton, Canada, 05/2009
74. Technical program committee, Communications and signal processing symposium, *GCC Conference & Exhibition*, Kuwait City, Kuwait, 05/2009
73. Technical program committee, Wireless communications symposium *IEEE International Conference on Communications*, Deresden, Germany, 06/2009
72. Technical program committee, Signal processing for communications symposium, *IEEE International Conference on Communications*, Deresden, Germany, 06/2009
71. Technical program committee, Communication theory symposium, *IEEE International Conference on Communications*, Deresden, Germany, 06/2009
70. Technical program committee, *Mosharaka International Conference on Communications, Computers and Applications*, Amman, Jordan, 08/2008
69. Technical program committee, Signal processing symposium, *IEEE Global Communications Conference*, New Orleans, LA, USA, 12/2008
68. Technical program committee, Wireless communications symposium, *IEEE Global Communications Conference*, New Orleans, LA, USA, 12/2008
67. Technical program committee, Communications theory symposium, *IEEE Global Communications Conference*, New Orleans, LA, USA, 12/2008

66. Technical program committee, Communications and information theory symposium, *International Wireless Communications and Mobile Computing Conference*, Crete Island, Greece, 08/2008
65. Technical program committee, Fundamentals and PHY track, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Cannes, France, 09/2008
64. Technical program committee, *Queens Biennial Symposium on Communications*, Kingston, ON, Ontario, Canada, 06/2008
63. Technical program committee, *European Wireless Conference*, Prague, Czech Republic, 06/2008
62. Technical program committee, *IEEE International Conference on Circuits and Systems for Communications*, Shanghai, China, 05/2008
61. Technical program committee, *IEEE Canadian Conference on Electrical and Computer Engineering*, Niagara Falls, ON, Canada, 05/2008
60. Technical program committee, *Communications Networks and Services Research Conference*, Halifax, NS, Canada, 05/2008
59. Technical program committee, *IEEE Wireless Communications & Networking Conference*, Las Vegas, USA, 4/2008
58. Technical program committee, Wireless communications symposium *IEEE International Conference on Communications*, Beijing, China, 05/2008
57. Technical program committee, Signal processing symposium, *IEEE International Conference on Communications*, Beijing, China, 05/2008
56. Technical program committee, Communications theory symposium, *IEEE International Conference on Communications*, Beijing, China, 05/2008
55. Technical program committee, Signal processing for communication symposium, *IEEE Global Communications Conference*, Washington, DC, USA, 11/2007
54. Technical program committee, Wireless communications symposium *IEEE Global Communications Conference*, Washington, DC, USA, 11/2007
53. Technical program committee, Communications theory symposium, *IEEE Global Communications Conference*, Washington, DC, USA, 11/2007
52. Technical program committee, *International Conference on Wireless Communications and Mobile Computing*, Honolulu, Hawaii, USA, 08/2007
51. Technical program committee, *Mosharaka International Conference on Communication Systems and Circuits*, Amman, Jordan, 06/2007

50. Technical program committee, *International Symposium on Information Theory*, Nice, France, 06/2007
49. Technical program committee, *European Wireless Conference*, Paris, France, 04/2007
48. Technical program committee, Communications theory symposium, *IEEE International Conference on Communications*, Glasgow, Scotland, 06/2007
47. Technical program committee, Wireless communications symposium, *IEEE International Conference on Communications*, Glasgow, Scotland, 06/2007
46. Technical program committee, Phy/MAC Track, *IEEE Wireless Communications & Networking Conference*, Hong Kong, 03/2007
45. Technical program committee, *IEEE Singapore International Conference on Communication Systems*, Singapore, 10/2006
44. Technical program committee, Wireless communications symposium *IEEE Global Communications Conference*, San Francisco, CA, USA, 11/2006
43. Technical program committee, Communications theory symposium *IEEE Global Communications Conference*, San Francisco, CA, USA, 11/2006
42. Technical program committee, Signal processing for communication symposium *IEEE Global Communications Conference*, San Francisco, CA, USA, 11/2006
41. Technical program committee, *Asia-Pacific Conference on Communications*, Busan, Korea, 11/2006
40. Technical program committee, *European Signal Processing Conference*, Florence, Italy, 11/2006
39. Technical program committee, *Wireless Euro-Mediterranean International Conference*, Amman, Jordan, 05/2006
38. Technical program committee, *IEEE International Symposium on Powerline Communications and Its Applications*, Orlando, FL, USA, 03/2006
37. Technical program committee, Wireless communications symposium *IEEE International Conference on Communications*, Istanbul, Turkey, 06/2006
36. Technical program committee, Communications theory symposium *IEEE International Conference on Communications*, Istanbul, Turkey, 06/2006
35. Technical program committee, Phy/MAC Track, *IEEE Wireless Communications & Networking Conference*, Las Vegas, NV, USA, 04/2006
34. Technical program committee, *International Symposium on Wireless Pervasive Computing*, Phuket, Thailand, 01/2006

33. Technical program committee, *IEEE International Symposium on Personal Indoor and Mobile Radio Communications*, Berlin, Germany, 09/2005
32. Chair, Communication theory symposium, *IEEE Global Communications Conference*, St. Louis, Missouri, USA, 12/2005.
31. Technical program committee, *International Workshop on Signal Processing Advances in Wireless Communications*, New York, NY, USA, 01/2005
30. Technical program committee, DSP for wireless applications track, *IEEE Vehicular Technology Conference*, Dallas, TX, USA, 09/2005
29. Technical program committee, Modeling and simulation track, *IEEE Vehicular Technology Conference*, Dallas, TX, USA, 09/2005
28. Technical program committee, Wireless access track, *IEEE Vehicular Technology Conference*, Dallas, TX, USA, 09/2005
27. Technical program committee, Wireless personal communication systems track, *IEEE Vehicular Technology Conference*, Dallas, TX, USA, 09/2005
26. Technical program committee, Transmission technology track, *IEEE Vehicular Technology Conference*, Dallas, TX, USA, 09/2005
25. Technical program committee, Communications theory symposium, *IEEE International Conference on Communications*, Seoul, Korea, 05/2005
24. Technical program committee, Wireless communications symposium, *IEEE International Conference on Communications*, Seoul, Korea, 05/2005
23. Technical program committee, Signal processing for communications symposium, *IEEE International Conference on Communications*, Seoul, Korea, 05/2005
22. Technical program committee, *IEEE Wireless Communications & Networking Conference*, New Orleans, LA, 03/2005
21. Technical program committee, *IASTED International Conference on Communication Systems and Applications*, Banff, AB, Canada, 07/2005
20. Technical program committee, *IASTED International Conference on Wireless Networks and Emerging Technologies*, Banff, AB, Canada, 07/2005
19. Technical program committee, MIMO symposium, *International Conference on Wireless Networks, Communications, and Mobile Computing*, Maui, HI, USA, 06/2005
18. Technical program committee, *International Conference on Communications Systems*, Singapore, 09/2004
17. Technical program committee, Transmission technology track, *IEEE Vehicular Technology Conference*, Los Angeles, CA, USA, 09/2004

16. Technical program committee, Wireless access track, *IEEE Vehicular Technology Conference*, Los Angeles, CA, USA, 09/2004
15. Technical program committee, Communications theory symposium, *IEEE International Conference on Communications*, Paris, France, 06/2004
14. Technical program committee, Wireless communications symposium, *IEEE International Conference on Communications*, Paris, France, 06/2004
13. Technical program committee, Signal processing in communications symposium, *IEEE International Conference on Communications*, Paris, France, 06/2004
12. Technical program committee, Wireless communications symposium, *IEEE Global Communications Conference*, Dallas, TX, USA, 11/2004
11. Technical program committee, Networks and systems symposium, *IEEE Global Communications Conference*, Dallas, TX, USA, 11/2004
10. Technical program committee, *IASTED International Conference on Communication Systems and Applications*, Banff, AB, Canada, 07/2004
9. Technical program committee, *Communication Networks and Services Research Conference*, Fredericton, NB, Canada, 05/2004
8. Technical program committee, Wireless communications symposium, *IEEE Global Communications Conference*, San Francisco, USA, 12/2003
7. Technical program committee, Communication theory symposium, *IEEE Global Communications Conference*, San Francisco, USA, 12/2003
6. Technical program committee, *IEEE Vehicular Technology Conference*, Orlando, FL, USA, 10/2003
5. Technical program committee, Communication theory symposium, *IEEE International Conference on Communications*, Anchorage, Alaska, USA, 05/2003
4. Session chair, *IEEE Pacific Rim Conference on Communications, Computers and Signal Processing*, Victoria, BC, Canada, 08/2003
3. Session chair, *IEEE Vehicular Technology Conference*, Vancouver, BC, Canada, 09/2002
2. Session chair, *IEEE International Symposium on Advances in Wireless Communications*, Victoria, BC, Canada, 09/2002
1. Session organizer and session chair, *IEEE International Conference on Communications*, Dresden, Germany, 06/2009 and *IEEE Vehicular Technology Conference*, 2002