List of Publications

A. 1. Journals

Submitted & under revision


Published-accepted

A 2. Papers in Refereed Conference Proceedings

IEEE Conference Proceedings


**Other International Refereed Conference Proceedings**


CITATION RECORD: 671 (All) in Scholar google.

http://scholar.google.com/citations?hl=en&user=67WtzIsAAAAJ

G.1 Theses

1. Distance Considerations and Coding Techniques for Bandlimited Channels, Ph.D., 1995 May, University of Manitoba, Canada.

2. Demodulation for Intersymbol Interference Channels in the Presence of Colored Gaussian Noise, M. Sc., 1991 September, University of Manitoba, Canada

G. 2. Theses Supervised - Student Research Supervision

Asian Institute of Technology (MEng. Theses)

1. Nguyen Hoang Ha, The Investigation of Trellis Coded-Modulation and Turbo Trellis Coded-Modulation Schemes for Rayleigh Multipath Fading Channels, 1997. went to Canada for PhD

2. Warnakulasuriya Anil Chandana Fernando, Performance of COFDM for LEO Satellite Channels in Global Mobile Communications, 1997. went to UK for PhD

3. Gi Ho Park, Turbo Coded Modulation Schemes for Rayleigh Multipath Fading Channel, 1998. went to US for PhD

4. Nguyen Vu Luu, Performance of Serial Concatenated Interleaved Codes in Correlated Multipath Fading Channels, 1998. went to Canada for PhD

5. Padam Lal Kafle, Performance of Parallel Concatenated Interleaved Codes in Correlated Multipath Fading Channels, 1998 [Telecom Finland Prize for best Graduate] went to Canada for PhD

6. A.D.S. Jayalath, Application of Orthogonal Frequency Division Multiplexing with Concatenated Coding in Wireless ATM, 1998. went to Australia for PhD

7. Zay Yar Thin, Coordinate Ordering Algorithms for Maximum Likelihood Soft-Decision Decoding of Binary Linear Block Codes, 1998 Research Study went to Canada for PhD (passed away due to illness)

8. Mohammad Ghulam Rahman, Performance of Serial Concatenated Convolutional Codes in Rayleigh Multipath Fading Channel, 1998 Research Study. went to Japan for PhD

9. Ta Tri Nghia, Partial Parallel Interference Cancellation for Direct Sequence-Code Division Multiple Access, 1999

10. Tran Anh Tuan, Unequal Error Protection for MPEG-2 Video Transmission over Frequency Selective Rayleigh Fading Channels, 1999. went to Canada for PhD

11. Doan Ngoc Dung, Performance Analysis of Trellis and Turbo Coded Modulation Schemes over Frequency Selective Rayleigh Fading Channels, 1999 [Sonera Prize for best Telecom Graduate] went to US for PhD

12. Thet Htun Khine, An Investigation into the Performance of Turbo Coded Multicarrier DS-CDMA Using Frequency Spread Coding, 1999. went to Japan for PhD

13. Poramate Tarasak, Performance of Trellis- and Block-Coded Modulation over Frequency-Selective Fading Channels, 1999. went to Canada for PhD
14. Kanagaratnam Sathananthan, Investigation of Frequency Offset and Peak to Average Power Ratio in OFDM Based Cellular Systems, 1999. went to Australia for PhD


17. Mr. Beminhennadige Janath Peiris, Investigation of Carrier Frequency Offset in OFDM Based Wireless Communication Systems, 2000 [Sonera Prize for best Telecom Graduate] went to US for PhD

18. Miss Nanthawan Ruangsurat, An Investigation of Peak to Average Power Ratio in MC-CDMA Combined with Partial Transmit Sequence, 2000


20. Mr. Ruwan Naminda Gajaweera, Low Bit Rate Video Transmission Over Correlated Frequency Selective Channels, 2000. Went to UK for PhD


23. Mr. Le Nhat Thang, Performance of Parallel and Serial Concatenated Convolution Codes in Correlated Rayleigh Multipath Fading Channels, 2000 Research Study. Went to Italy for PhD


25. Mr. Vu Gia Huy, Performance Investigation of Iterative Multiuser Receiver for Turbo-Coded DS-CDMA, 2001. went to Canada for PhD

26. Mr. Tran Cao Quyen, Investigation of Synchronization in OFDM System in Mobile Radio Environment, 2001. went to Canada for PhD

27. Mr. Thilak Ginige, The Design and Investigation of a 4-QAM-OFDM-CDMA Transmitter-Receiver to Obtain Low Peak to Average Power Ratio in Wireless Communications, D.Eng., 2002

28. Mr. Eakapong Tungsrisaguan, A Reduced Complexity of Soft-Output Algorithm Based on Sequential Decoding Technique and Its Applications, D. Eng., 2002

University of Moratuwa (M.Eng. Theses)


32. Prathapasinghe Dharmawansa, Analysis of Pairwise Error Probability Bounds for Space Time Coded MIMO Systems- ADB Scholarship; completed November 2004. Came to AIT to do PhD.

33. Samantha Sriyananda, Multiuser Detection in Multicarrier CDMA with Space Time Coding – completed August 2005, joined Jyvaskyla 2010 PhD
AIT-TC/ICT (M.Eng. Theses) from 2006

34. Mr. Surachai Chieochan, Performance of Cooperative Uplink Multicarrier CDMA System Employing V-BLAST in Frequency-Selective Rayleigh Fading Channels, 2006. went to Canada for PhD

35. Mr. Sivasothy Senthuran, Realistic Channel Model for Capacity Analysis of Multi-User MIMO System, 2006 (AIT-INT Dual Degree). went to Canada for PhD

36. Mr. Pham Tran Tung, Sub-Optimal Chip-Level Equalizer Combined with Parallel Interference Canceller for MIMO CDMA Downlink Channels, 2006. [Sonera Prize for best Telecom Graduate] went to Canada for PhD

37. Mr. Vien Hoai Nam, Performance Analysis of MIMO-OFDM Multiband UWB Systems in a Lognormal Fading Channel, 2006. went to Canada for PhD

38. Mr. Abul Hasanat Md. Rezaul Karim, A Collaborative Intrusion Detection System for Mobile Ad Hoc Networks Using Bayesian Method, 2006, ICT. Went to US for PhD


42. Iqbal Shahid, Bit-Interleaved Space-Time Coded Modulation with Iterative Decoding, 2007. [Wireless Multimedia Prize] went to Canada for PhD


44. Imran Khan, Capacity and Performance Analysis of Space-Time Block Coded MIMO-OFDM Systems Under Rician Fading, 2007. Started PhD at AIT

45. Thambu Kuganeswaran, Distributed Video Coding and Transmission over MIMO Wireless Channel, 2007. went to Canada for PhD


50. Saman Udaya Bandara Atapattu, Performance Analysis of cooperative Communication Network with TDMA based Protocols, 2007 December. went to Canada for PhD

51. Subodha Hettiachchi Gunawardena, Diversity Selection in Amplify-Forward Cooperative Communication Systems with TDMA-Based Protocols over Fading Channels, 2008 [Sonera Prize for best Telecom Graduate] went to Canada for PhD

52. Dao Anh Quan, Analysis of MIMO-OFDM Cooperative Diversity Systems, 2008
53. Phruetthirat Promcharoen, Comparison of Peer-to-Peer Certificate Exchange between PGP and Crypto Contact, 2008. Research Study

54. Udesh Sanjika Oruthota, Cooperative Communication Over Multicarrier CDMA System with Decode & Forward Relays in Frequency Selective Channels, 2008 ICT. Went to Finland to do PhD, Aalto University.

55. Dinusha R. Gamage, Practical Approach towards LDPC Based DVC, 2008 ICT


57. Sudarshan Guruacharya, Optimal Power Allocation Under an Uncertain Noise Floor for Gaussian Interference Channels, 2009. Went to NTU, Singapore to do PhD.

58. Muhammad Hasanain Chaudary, Performance and Optimal Resource Analysis of MIMO-OFDMA Uplink System with Carrier Frequency Offset, 2009 MS (Thesis) leading to PhD at AIT.

59. Tachporn Sanguanpuak, Power Brgaining for the Amplify and Forward Relay Channel, 2009. Now Doctoral student at AIT.

60. Shujaat Ali Khan Tanoli, Performance Analysis of BICM-ID Based Cooperative Network over Raylength and Nakagami Fading Channels, 2009. MS (Thesis) leading to PhD at AIT. **Graduated 2011, D.Eng.**

61. Mr. Haroon Rasheed, *Sensing Analysis for Cognitive Radio in Multipath and Shadowing Conditions over Composite Fading*, D.Eng., 2011 May (4 years Master leading to PhD)

62. Mr. Mohammed Moshin Nazir, *ECOSYSTEM MODELING FOR SELF-ORGANIZING COOPERATIVE COGNITIVE WIRELESS COMMUNICATION NETWORKS*, Ph.D.,2011 Intersem (4 years Master leading to PhD)

63. Zuhaib Ashfaq Khan, Performance Analysis of MIMO Based Cooperation Diversity System Using Hybrid FDMA-TDMA Technique, 2009. MS (Thesis) leading to PhD at AIT.

64. Chatura Kalyana Wickrema Seneviratne, Energy and Capacity Analysis of Relay Assisted MIMO Ad Hoc Networks: A Game Theoretical Approach, 2009 ICT. Went to Canada for PhD.


66. Madhushan Thilina, Cognitive and relay networks : power allocation and beamforming, 2010 ICT. Went to Canada for PhD.

67. K. B. Manosha, Spectrum sharing in overlay and underlay paradigms for cognitive communication improvements, 2010 ICT. Joined CWC in 2010 PhD.

68. Amila Pradeep Kumara, *RESOURCE ALLOCATION AND INTERFERENCE MITIGATION FOR OFDMA BASED WIRELESS HIERARCHICAL NETWORKS*, 2011 TC. Joined Waterloo, Canada for PhD.


70. Yamuna Dhungana, *PERFORMANCE ANALYSIS OF LAND MOBILE SATELITE BASED MIMO RELAY COMMUNICATION*, 2011 TC. Went to Canada for PhD.

71. Vesh Sharma, *COOPERATIVE COMMUNICATION WITH COGNITIVE RADIOS: DISTRIBUTED DETECTION, FUSION AND POWER ALLOCATION*, 2011 TC. Went to Canada for PhD.

73. Uditha Wijewardhana, INTERFERENCE, PERFORMANCE ANALYSIS AND POWER ALLOCATION FOR COGNITIVE AD HOC NETWORK WITH RELAY ASSISTED PRIMARY LINK, 2011 ICT. Joined CWC PhD.

74. Mathew Goonewardhana, COGNITIVE RADIO RESOURCE ALLOCATION BASED ON PRIMARY SYSTEM BEHAVIOR, 2011 ICT. Joined INRS, Montreal, Canada for PhD.

75. Inosha Sugathapala, UPLINK POWER AND RATE OPTIMIZATION IN CDMA AND OFDMA FEMTOCELL NETWORKS USING GAME THEORY, 2011 ICT. Joined CWC 2012 PhD.

76. Prabodini Semasinghe, Fractional Frequency Reuse based Downlink Resource Allocation for Two-Tier Femtocell Networks, 2012 TC. Went to University of Manitoba, Canada for PhD.

Summary of student research supervision at AIT (May 1996 – May 2012)

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