



PROF. M. A. L. A. HALEEM, Ph.D.

Professor of Electrical and Electronic Engineering,
Faculty of Engineering, Southeastern University of Sri Lanka.

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PROFILE

More than 30 years of experience in academic teaching, academic and industrial research, and administrative activities. Experience in industrial research and development at the wireless communications research department, Division of Wireless Communication Research, Bell Laboratories, Lucent Technologies inc. (now Nokia Bell Labs), New Jersey, USA. Senior member of the Institute of Electrical and Electronics Engineers (IEEE) and published numerous research papers in outstanding international journals and conference proceedings. Contributed to books from recognized international publishers and have international patents of inventions.

EDUCATION

Ph.D. in Electrical Engineering, Stevens Institute of Technology, Hoboken, NJ, USA, 2006

Area: Cross Layer Optimization of Wireless Networks, Wireless Network Security

Advisor: Prof. Rajarathnam Chandramouli (Thomas Hattrick chair professor)

Thesis Title: A Study of Cross Layer Trade-offs in QoS and Security of Wireless Networks

M.Phil. in Electrical and Electronic Engineering, The Hong Kong University of Science and Technology (HKUST), Clear Water Bay, Hong Kong, 1995

Area: Dynamic Channel Allocation, Graph Coloring, Fuzzy Logic

Advisors: Dr. Kwan F. Cheung, Dr. Justin Chuang

Thesis Title: Fuzzy Logic Based Dynamic Channel Assignment

B.Sc. Eng. with specialization in Electrical and Electronic Engineering, University of Peradeniya, Kandy, Sri Lanka, 1990

RESEARCH AREAS

Green Wireless Technology, 5G Wireless Networks, Wireless Network Security, Cross Layer Optimization, Wireless Sensor Networks, MIMO Radar.

ACADEMIC/PROFESSIONAL EXPERIENCE

Professor of Electrical and Electronic Engineering and

Dean/ Faculty of Engineering

South Eastern University of Sri Lanka

Oluvil, Sri Lanka

Aug 2022 to Present

Professor of Electrical and Electronic Engineering and

Head/Department of Interdisciplinary Studies

Faculty of Engineering

South Eastern University of Sri Lanka

Oluvil, Sri Lanka

Feb 2022 to Aug 2022

Professor of Electrical and Electronic Engineering (Chair Cadre) Department of Electrical and Telecommunication Engineering Faculty of Engineering South Eastern University of Sri Lanka Oluvil, Sri Lanka	Jan 2020 to Feb 2022
Associate Professor Electrical Engineering Department College of Engineering University of Hail (UoH) Hail, Saudi Arabia	Sep 2011 to Aug 2020
Assistant Professor Electrical Engineering Department College of Engineering King Fahd University of Petroleum and Minerals (KFUPM) Dhahran, Saudi Arabia	Sep 2009 to Aug 2011
Research Associate (Postdoctoral Research Fellow) Department of Electrical and Computer Engineering School of Engineering, New Jersey Institute of Technology (NJIT) Newark, NJ, USA	Sep 2007 to Aug 2009
Postdoctoral Researcher Department of Electrical and Computer Engineering School of Engineering Stevens Institute of Technology Hoboken, NJ, USA	Sep 2005 to Aug 2007
Research Assistant (Ph.D. Candidate) Department of Electrical and Computer Engineering School of Engineering Stevens Institute of Technology Hoboken, NJ, USA	Jan 2003 to Aug 2005
Member of Technical Staff Wireless Communication Research Department Division of Wireless Communications Bell Laboratories, Lucent Technologies, Inc Holmdel, NJ, USA	July 1996 to Dec 2002
Department of Electrical and Electronic Engineering, The Hong Kong University of Science and Technology, Hong Kong	
<ul style="list-style-type: none"> • Research Assistant (Postgraduate Studentship) • Teaching Assistant (Postgraduate Studentship) 	Jan 1994 to June 1996 Aug 1993 to Jan 1994
Department of Electrical and Electronic Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka	

• Lecturer (Probationary)	Feb 1992 to Aug 1993
• Assistant Lecturer	Feb 1991 to Feb 1992
• Instructor	Mar 1990 to Feb 1991

VISITING POSITIONS

- Has been with the Electrical and Electronic Engineering Department, Faculty of Engineering, South Eastern University of Sri Lanka during June – August, 2016 and July-August, 2017 on full time assignment and taught EN62003 Electromagnetics, EN63001 Communication Systems I, EN63002 Control System, and EE33003 Theory of Electricity.
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FUNDED ACADEMIC RESEARCH

AS A FACULTY MEMBER

- **Intelligent Propagation Environment for Wireless Communication (SEUSL)**, 06/2021-Present, funded by Research and Innovation Center (RIC), SEUSL.
- **Energy Efficient Wireless Sensors (UoH)**, 09/2014-08/2015, funded by Deanship of Scientific Research, University of Hail, Saudi Arabia: Aim of this project has been to design and build wireless sensor hardware and software with minimum energy consumption and best configurability.
- **Camel Detector(UoH)**, 02/2014 – 08/2014, funded by the Deanship of Students Affairs, University of Hail, Saudi Arabia: This is a senior project carried out by a team of six students under my supervision.
- **WiMAX, system optimization (KFUPM)**, 09/2009-08/2011, funded by Saudi Arabia's National Science and Technology Plan.
- **Tagged User Analysis for MAC protocols (KFUPM)**, 09/2009-08/2011, funded by Deanship of Scientific Research of King Fahd University of Petroleum and Minerals, Saudi Arabia.

IN POSTDOCTORAL POSITIONS

- **Information Theory of MIMO RADAR**, 09/2007-07/2009, funded by Air Force Research Laboratory, USA: As a postdoctoral researcher at the Center for Wireless Communications and Signal Processing (CWCSPP), New Jersey Institute of Technology (NJIT), NJ, USA.
- **Correlation Models for Sensor Field Data**, 10/2005-08/2007, This work was partly funded by ONR/Stevens Maritime Security Laboratory, USA.
- **Distributed Compression and Encryption of Correlated Data**, 10/2005-08/2007, NSF-CT grant, USA.
- **Joint Source-Channel Coding**, 10/2005-08/2007, This work was partly funded by ONR/Stevens Maritime Security Laboratory.

AS A DOCTORAL CANDIDATE

- **Security-Throughput Tradeoff in Wireless Networks**, 08/2004-09/2005, funded by ARMY/ARDEC.
- **Stochastic Learning in Wireless Network Optimization**, 01/2003-07/2004, funded by National Science Foundation, USA.

AT BELL LABORATORIES (INTERNAL FUNDING)

- **Power optimal transmission in multi-user MIMO downlink**, 01/2002-12/2002, Bell Laboratories, Lucent Technologies inc., Crawford Hill, Holmdel, NJ, USA.

- **Multiple Input Multiple Output (MIMO) architecture for 3G wireless systems**, 01/2001-12/2001, Bell Laboratories, Lucent Technologies inc., Crawford Hill, Holmdel, NJ, USA.
- **High Data Rate (HDR) wireless system performance assessment**, 01/2000, 12/2000,), Bell Laboratories, Lucent Technologies inc., Crawford Hill, Holmdel, NJ, USA.
- **Measurements of outdoor to indoor wireless signal attenuation**, 07/1999-12/1999, Bell Laboratories, Lucent Technologies inc., Crawford Hill, Holmdel, NJ, USA.
- **Steerable Narrow Beam based Fixed Wireless Access System** (dubbed **Advanced Wireless System**), 01/1998-06/1999, Bell Laboratories, Lucent Technologies inc., Crawford Hill, Holmdel, NJ, USA.
- **Airloop Fixed Wireless System**, 01/1977-12/1977, Bell Laboratories, Lucent Technologies inc., Crawford Hill, Holmdel, NJ, USA.
- **Co-existence Dynamic Channel Assignment for the co-existence of overlay – underlay wireless networks**, 07/1966 – 12/1966, Bell Laboratories, Lucent Technologies inc., Crawford Hill, Holmdel, NJ, USA.

**AS AN M.Phil. STUDENT
(FUNDING FROM HONG KONG CORPORATE RESEARCH CENTER)**

- State Space Analysis of Dynamic Channel Assignment
 - Fuzzy Logic Based Dynamic Channel Assignment
 - Dynamic Channel Allocation using Neural Networks
 - Software test-bed for performance assessment of Dynamic Channel Assignment in Cellular Wireless Communication Systems on Sun-Unix network and Parallel Virtual Machine (PVM).
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UNDERGRADUATE TEACHING

EN 83001 Communication Systems II, E16, South Eastern University of Sri Lanka
EE 84099/EN 84099 - Final Year Research Project - Part II, E15, E16, South Eastern University of Sri Lanka
EE 74099/EN 74099 - Final Year Research Project - Part I, E15, E16, South Eastern University of Sri Lanka
EN 63002 Control Systems, E16, South Eastern University of Sri Lanka
EN 62003 Electromagnetics, E16, South Eastern University of Sri Lanka
EN 43001 Analog Electronics, E17, E18, South Eastern University of Sri Lanka
Control Systems
EN 52002 Power Electronics, E16, E17, South Eastern University of Sri Lanka
EN 42080 Electronics, E17, E18 (Mech Eng), South Eastern University of Sri Lanka
EE 417 Communications Engineering II, Spring 2018/209 – Fall 2018/2019, University of Hail, Saudi Arabia
EE 303 Electronics II, Spring 2016/2017 – Fall 2018/2019, University of Hail, Saudi Arabia
EE 315 Probabilistic Methods in Electrical Engineering, Fall 2012/2013- Fall 2017/2018, University of Hail, Saudi Arabia
EE370 Communications Engineering I, Spring 2011/2012 – Fall 2018/2019, University of Hail, Saudi Arabia
EE 205 Electrical Circuits II **LECTRIC CIRCUITS II**, Spring 2010/2011, King Fahd University of Petroleum and Minerals, Saudi Arabia

EE201 Electrical Circuits I, Fall 2010/11, King Fahd University of Petroleum and Minerals, Saudi Arabia
EE204 Principles of Electrical Circuit Analysis (for students in non-electrical engineering programs), Spring 2009/10, King Fahd University of Petroleum and Minerals, Saudi Arabia
EE207 Signals and Systems, Fall 2009/2010, King Fahd University of Petroleum and Minerals, Saudi Arabia
EE411 Senior Project, Fall 2011/2012 – Fall 2015/2016, University of Hail, Saudi Arabia, Fall 2009/2010-Spring 2010/2011, King Fahd University of Petroleum and Minerals, Saudi Arabia
EE351 Co-op Program, Fall 2011/2012-Fall 2015/2016, University of Hail, Saudi Arabia, Fall 2009/2010-Spring 2010/2011, King Fahd University of Petroleum and Minerals, Saudi Arabia

CpE358 Switching Theory and Logic Design, Fall 2006, Department of Electrical and Computer Engineering, Stevens Institute of Technology, Hoboken, NJ

EE493 Data & Computer Communications, Fall 2005, Stevens Institute of Technology, Hoboken, NJ

Electrical Measurements and Electromagnetics, 1990-1993, University of Peradeniya, Sri Lanka

Electronic Circuits, 1993, University of Peradeniya, Sri Lanka

Introduction to Electrical Engineering I, 1993, University of Peradeniya, Sri Lanka
 Engineering Physics II, Communications, Applied Electricity (Laboratory Classes)

POSTGRADUATE TEACHING

EE 559 Selected topics in Communications, Fall 2018/2019, University of Hail, Saudi Arabia

EE 570 Stochastic Processes, Spring 2010/2011, King Fahd University of Petroleum and Minerals, Saudi Arabia, Spring 2018/2019, University of Hail

EE499 Wireless and Mobile Communications, Spring 2010/2011, King Fahd University of Petroleum and Minerals, Saudi Arabia

ECE742 Communication Systems II, Spring 2008, Department of Electrical and Computer Engineering, New Jersey Institute of Technology, Newark, NJ

GRADUATE THESES SUPERVISION

- Sidharth Nair, M.Sc.. Cross Layer Optimization of WiMAX systems, King Fahd University of Petroleum and Minerals, Saudi Arabia, 2011.
- Khurram Masoodh, Ph.D., Tagged User Analysis in Frequency Selective Fading channels, King Fahd University of Petroleum and Minerals, Saudi Arabia, 2011.
- Mohammed Akber Ali, Resource Allocation for MIMO-OFDMA Systems with Fairness Constraints, King Fahd University of Petroleum and Minerals, Saudi Arabia, 2011.

ACADEMIC COMMITTEES

ELECTRICAL & TELECOMMUNICATIONS ENGINEERING DEPARTMENT, SOUTH EASTERN UNIVERSITY OF SRI LANKA

Chairman, Online Examination Committee, FE, SEUSL

June 2021-Present

ELECTRICAL ENGINEERING DEPARTMENT, UNIVERSITY OF HAIL, SAUDI ARABIA

Chairman, Examination committee (EC)

9/2012-present

Chairman, Program Development Assessment and Evaluation Committee(PDAEC)

9/2016-present

Member, Library, Books and IT Committee

9/2012-present

Member, Labs and Facilities Committee	9/2013-8/2016
Member, Labs and Facilities Committee	9/2013-8/2016
Member, Research Committee	9/2012-8/2016
Member, EE Quality and Development Committee	9/2011-8/2016
Member, EE Community Services Committee	9/2012-8/2016

ELECTRICAL ENGINEERING DEPARTMENT, KING FAHD UNIVERSITY, SAUDI ARABIA

Member, Senior Project Committee	9/2009-8/2011
Member, Laboratory Development Committee	9/2009-8/2011

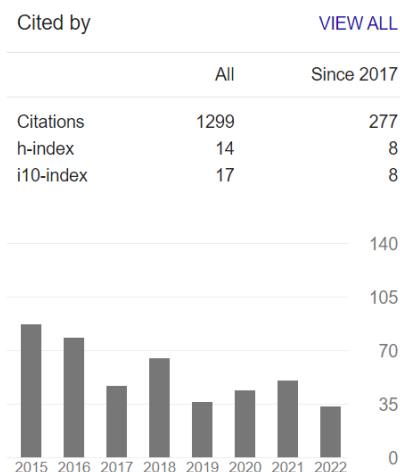
COLLEGE OF ENGINEERING, UNIVERSITY OF HAIL, SAUDI ARABIA

Member, Examination Committee	9/2017-present
Member, Internal Auditing and Evaluation Committee (IAEC)	9/2011-8/2016
Member, Member, Library, Books and IT Committee	9/2012-8/2016

PATENTS

1. M. Haimovich and M. A. Haleem, "Multi-Frequency Waveforms for MIMO Radar", Licensed to multiple organizations by the office of patents of inventions processing center, New Jersey Institute of Technology, Newark, NJ, USA.
2. M. A. Haleem and Chih-Lin I, "Dynamic Channel Allocation in Macrocells with Deterministic Exclusion for Allowing Underlying Autonomous Microcells", Patent granted by US Patent and Trademark Office on April 4, 2000, US Patent 6,047,190.
3. M. A. Haleem and Chih-Lin I, "Dynamic Channel Allocation in Macrocells with Random Exclusion for Allowing Underlying Autonomous Microcells", Patent granted by US Patent and Trademark Office on April 4, 2000, EP 0898436 A2, CA 2243802 A1, US 6055432 A.

LIST OF PUBLICATIONS



PEER REVIEWED JOURNAL PUBLICATIONS

1. Muapper Alhadri, Ibrahim Alatawi, Fuhaid Alshammari, **Mohamed A. Haleem**, Ashraf Mohamed Ahmed Heniegal, Gamal B. Abdelaziz, Mohamed M. Z. Ahmed, Umar F. Alqsair, A. E. Kabeel, and Mohamed Elashmawy, "Design of a Low-Cost Parabolic Concentrator Solar Tracking System: Tubular Solar Still Application," Journal of Solar Energy Engineering, Oct 2022, 144(5): 051006 (10 pages), Published Online: April 26, 2022, <https://doi.org/10.1115/1.4054232>.

2. M. T. Chugthai, M. I. Khan, H. Alsaif, **M. A. Haleem**, and M. Usman, "Holding Arrangement for End Face Polishing of Single Mode and other Optical Fibres," Accepted for publication in *Journal of Optical Technology*, OSA Publishing, Russia, Dec. 2018. ISSN 1070-9762 (Print), ISSN: 1091-0786 (Online), IF: 0.392.
3. **Mohamed Abdul Haleem**, "On the Capacity and Transmission Techniques of Massive MIMO Systems," *Wireless Communications and Mobile Computing*, Hindawi, 17 July 2018. DOI: 10.1155/6302 ISSN: 1530-8669 (Print), ISSN: 1530-8677, IF: 0.869.
4. Mohamed A H Eleiwa, Muhammad Usman, Mohamad Rahal, **M.A. Haleem**, and M.T. Chughtai, "Mechanically Controlled Smart Corner Reflector Antenna System for Cellular Networks," *International Journal of Mechanical & Mechatronics Engineering IJMME-IJENS*, Vol. 16, No. 01, pp. 141-147, February 2016.
5. **Mohamed A. Haleem**, "Energy Efficient Transmission Techniques for Wireless Sensor Networks," *IET Journal of Science, Measurement, and Technology – Special issue on Green Wireless Technology*, anticipated publication date – 4th Quarter 2014, Vol. 8, Iss. 6, pp. 420-425, November 2014.
6. M. Mohandes, **M. A. Haleem**, M. Kousa, and K. Balakrishnan, "Pilgrim Tracking and Identification using Wireless Networks and GPS in a Mobile Phone," *Arabial Journal for Science and Engineering*, Vol. 38, Iss. 8, pp. 2135-2141, March 2013.
7. M. Mohandes, **M. A. Haleem**, M. Deriche, and K. Balakrishnan, "Wireless Sensor Networks for Pilgrims Tracking," *IEEE Embedded Systems Letters*, 01/2012; 4(4):106-109.
8. C. N. Mathur, **M. A. Haleem**, K. P. Subbalakshmi, R. Chandramouli, Impact of Constraints on the Complexity and Performance of Channel Assignment in Multi-hop Wireless Networks, *Journal of Cyber Security and Mobility*, Vol. 1, Iss. 2, pp. 161-187, 2012.
9. **M. A. Haleem**, K. P. Subbalakshmi, and R. Chandramouli, "Joint Encryption and Compression of Correlated Sources with Side Information," *invited paper, EURASIP Journal on Information Security - special issue on the Interplay between Compression and Security for Image and Video Communication and Adaptation over Networks (SecComp)*, Dec 2008.
10. **M. A. Haleem**, C. N. Mathur, R. Chandramouli, and K. P. Subbalakshmi, "Opportunistic Encryption: A Trade-off between Security and Throughput in Wireless Networks," *IEEE Transactions on Dependable Computing*, Vol. 4, Iss. 4, pp. 313 - 324, Oct-Dec 2007.
11. Yiping Xing, Chetan N. Mathur, **M. A. Haleem**, R. Chandramouli, and K. P. Subbalakshmi, "Dynamic Spectrum Access with QoS and Interference Temperature Constraints," *IEEE Transaction on Mobile Computing*, April 2007.
12. **M. A. Haleem** and R. Chandramouli, "Adaptive downlink scheduling and rate selection: a cross-layer design," *IEEE Journal on Selected Areas in Communications (JSAC) special issue on Mobile Computing and Networking*, Vol. 23, No. 6, June 2005.
13. **M. A. Haleem** and R. Chandramouli, "Adaptive Stochastic Iterative Rate Selection for Wireless Channels," *IEEE Communication Letters*, Vol. 8, No. 5, pp. 292-294, May 2004.

14. H. Zheng, A. Lozano, **M. Haleem**, "Multiple ARQ Processing for MIMO Systems," *European Association for Speech, Signal, and Image Processing (EURASIP) Journal on Applied Signal Processing*, 2004:5, pp. 772-782.
15. H. Huang, H. Viswanathan, A. Blanksby and **M. Haleem**, "Multiple Antenna Enhancements for a High Rate CDMA Packet Data System," *Journal of Very Large Scale Integration (VLSI) Signal Processing* 30, pp. 55-69, 2002, Kluwer Academic Publishers.
16. **M. Haleem**, S. Sukumar, P.R.P. Hoole and S.R.H. Hoole, "High Frequency Lightning-like Electromagnetic Pulses and Plane Metallic Surfaces: Experimental Results," *Journal of Electromagnetic Forces and Applications*, 1992, pp. 481-484, Elsevier Publishers B.V.

PEER REVIEWD CONFERENCE PUBLICATIONS

17. Yomal Malinda, Damith Pushpika, **Mohamed Haleem**, Aslam Saja, Safnas Kariapper, Sithy Juhaniya, Fuhaid Alshammari, and Mohamed Elashmawy, "Precision Dual Axis Tracker for Solar Concentrator," IESL YMS Technical Conference 2021, Sri Lanka.
18. A.M.N.C. Attanayake, W.G.R.U. Hansamali, R. Hirshan, **M.A.L.A. Haleem**, and M.N.A. Hinas, "Amigo (A Social Robot): Development of a robot hearing system," IETATC, 28th of August 2021.
19. K. L. P. P. Liyanage, W. W. M. D. Darshani, A. M. A. Saja, A. I. S. Juhaniya, **M. A. L. A. Haleem**, "Smart Dust Bins for Monitoring and Increasing the Efficiency of Solid Waste Management," IESL YMS Technical Conference 2021, Sri Lanka.
20. **M. A. Haleem**, Z. Huneiti, S. Nair, and S. Al-Ghadhban, "Throughput Optimization in Multiuser MIMO-OFDM Systems," International Conference on Innovations in Information Technology (IIT)-2012.
21. K. Masood, M. S. Sohail, A. H. Sheikh, **M. A. Haleem**, "Application of Tagged User Analysis to FU-FB Slotted ALOHA Performance over Frequency Selective Fading Channels," 75th IEEE Vehicular Technology Conference (VTC Spring), 2012.
22. S. Hu, Yu-Dong Yao, A. U. Sheikh, and **M. Abdul Haleem**, "Tagged User Approach for Finite-User Finite-Buffer S-Aloha Analysis in AWGN and Frequency Selective Fading Channels," IEEE Sarnoff Symposium 2011, Princeton, NJ, USA.
23. M. Mohandes, K. Balakrishnan, **M. Haleem**, and A. Abul-Hussain, "Pilgrim Tracking Using Wireless Sensor Network," *25th International Conference on Advanced Information Networking and Applications (AINA-2011)* March 22 - 25, 2011, Biopolis, Singapore.
24. **M. A. Haleem** and A. Haimovich, "Range and Speed Resolution in Coherent Distributed MIMO Radar with Gaussian Pulse Trains," *Conference on Information Sciences and Systems (CISS) 2009*, Johns Hopkins University in Baltimore, Maryland.
25. **M. A. Haleem**, A. Haimovich, and R. Blum, "Sidelobe Mitigation in MIMO Radar with Multiple Subcarriers," *Invited paper, IEEE Radar Conference 2009*, Pasadena, CA.

26. **M. A. Haleem** and A. Haimovich, "On the Distribution of Ambiguity Levels in MIMO Radar," *Invited paper, Asilomar Conference on Signals, Systems, and Computers 2008*, Pacific Grow, CA.
27. C. N. Mathur, **M. A. Haleem**, R. Chandramouli, and K. Subbalakshmi, "Impact of Constraints on the Complexity of Dynamic Spectrum Assignment," *IEEE Global Telecommunications Conference (GLOBECOM) 2008*, New Orleans, LA.
28. **M. A. Haleem**, K. P. Subbalakshmi, "Optimal Source-Channel Decoder for Correlated Markov Sources over Additive Markov Channels," *Data Compression Conference (DCC) 2007*, Snowbird, Utah.
29. **M. A. Haleem**, Chetan N. Mathur, K. P. Subbalakshmi, "Joint Distributed Compression and Encryption of Correlated Data in Sensor Networks," *IEEE Military Communications Conference (MILCOM) 2006*, Washington, DC.
30. **M. A. Haleem**, Chetan N. Mathur, R. Chandramouli, and K. P. Subbalakshmi, "On Optimizing the Security-Throughput Trade-off in Wireless Networks with Adversaries," *International Conference on Applied Cryptography and Network Security (ACNS) 2006*, Singapore.
31. Y. Xing, Chetan Nanjunda Mathur, **M. Haleem**, R. Chandramouli, and K. P. Subbalakshmi, "Priority Based Dynamic Spectrum Access with QoS and Interference Temperature Constraints," *IEEE International Conference on Communications(ICC) 2006*, Istanbul, Turkey.
32. Y. Xing, C. Nanjunda, **M. A. Haleem**, R. Chandramouli, and K. P. Subbalakshmi, "Real-Time Secondary Spectrum Sharing with QoS Provisioning", *IEEE Consumer Communications and Networking Conference (CCNC) 2006*, Las Vegas, NV.
33. C. Nanjunda, **M. A. Haleem**, and R. Chandramouli, "Robust Encryption for Secure Image Transmission over Wireless Channels," *IEEE International Conference on Communications (ICC) 2005*, Seoul, Korea.
34. **M. A. Haleem** and R. Chandramouli, "Joint Adaptive Rate Control and Randomized Scheduling for Multimedia Wireless Systems," the *IEEE International Conference on Communications (ICC) 2004*, Paris, France.
35. **M. A. Haleem** and R. Chandramouli, "Adaptive Transmission Rate Assignment for Fading Wireless Channels with Pursuit Learning Algorithm," the *38th Annual Conference on Information Sciences and Systems (CISS) 2004*, Princeton University, Princeton, NJ.
36. H. Zheng, A. Lozano, **M. Haleem**, "Multiple ARQ Processes for MIMO Systems," the *13th IEEE Int. Symp. on Personal, Indoor and Mobile Radio Communications (PIMRC) 2002*, Lisboa, Portugal.
37. **M. A. Haleem**, D. Avidor, and R. Valenzuela, "Fixed Wireless Access System with Autonomous Resource Assignment," *IEEE Personal, Indoor and Mobile Radio Communications (PIMRC) 1998*, Boston, MA.

38. Chih-Lin I and **M. A. Haleem**, "Deterministic Co-Existence Dynamic Channel Allocation Algorithms," *IEEE Global Telecommunications Conference (GLOBECOM) 1997*, Phoenix, AZ.
39. Chih-Lin I and **M. A. Haleem**, "Co-Existence Dynamic Channel Allocation Algorithm," *IEEE Vehicular Technology Conference (VTC) 1997*, Phoenix, AZ.
40. **M. Haleem**, K. Cheung, and J. Chuang, "Aggressive Fuzzy Distributed Dynamic Channel Assignment for PCS," *IEEE International Conference on Universal Personal Communications (ICUPC) 1995*, Tokyo, Japan.
41. **M. Haleem**, K. Cheung, and J. Chuang, "Aggressive Fuzzy Distributed Dynamic Channel Assignment Algorithm," *IEEE International Conference on Communications (ICC) 1995*, Seattle, WA.
42. **M. Haleem**, K. Cheung, and J. Chuang, "Fuzzy Logic Based Dynamic Channel Assignment," *IEEE International Conference on Communication Systems (ICCS) 1994*, Singapore.

INVITED BOOK CHAPTERS

1. **M. A. Haleem** and K. P. Subbalakshmi, "Global System for Mobile Communications (GSM)", Book chapter in *The Handbook of Computer Networks, Volume 2, LANs, MANs, WANs, the Internet, and Global, Cellular, and Wireless Networks*, Hosseing Bidgoli (Ed.), ISBN: 978-0 471-78459-3, Hardcover, John Wiley & Sons, Inc., December 2007.
 2. **M. A. Haleem**, Sajal K. Das, and R. Chandramouli, "Online Stochastic Optimization of Wireless Multimedia Networks," Book chapter in *Adaptation Techniques in Wireless Multimedia Networks*, W. Li and Y. Xiao (Eds.), ISBN-10: 1594548838, ISBN-13: 978-1594548833, Nova Science Publishers, May 2006.
-

PROFESSIONAL ACTIVITIES AND AFFILIATIONS

- Senior Member, IEEE
- Member of Technical Program Committee, IEEE International Conference Communications (ICC) 2013
- Member of Technical Panel, IEEE Waveform Design Conference, 2009
- Member of Technical Program Committee, IEEE Global Telecommunications Conference (GLOBECOM) 2007 Multimedia Communications, Software and Services Symposium (MCSSS) and Wireless Communications (WC) Symposium
- Member of Technical Program Committee, IEEE International Conference Communications (ICC) 2007 Multimedia Communications and Home Services Symposium (MCH)
- Member of Technical Program Committee, IEEE Consumer Communications and Networking Conference (CCNC) Multimedia Networking Track 2007
- Member of Technical Program Committee, IEEE GLOBECOM 2006 symposium on Information and Communication Security
- Reviewer for papers submitted to IEEE Journals, IEEE Conferences, IET journals, and several other journals

INVITED TALKS AND GUEST LECTURES

1. “Network Security”, Guest Lecture, Department of Electrical and Computer Engineering, University of Colorado at Boulder, Boulder, Colorado, October 22, 2007.
 2. “Towards Cognitive Radio”, Research Talk, Department of Electrical and Computer Engineering, University of Colorado at Boulder, Boulder, Colorado, October 22, 2007.
 3. “Distributed Compression and Encryption in Wireless Sensor Networks”, Seminar presentation, Department of Electrical Engineering, State University of New York (SUNY) at Buffalo, March 22, 2007.
 4. “Stochastic Learning Automata in User Scheduling and Rate Assignment in Downlink”, Invited speech, Department of Wireless Communications Research, Bell Laboratories, Crawford Hill, Holmdel, NJ, July 2005.
-

HONORS AND AWARDS

1. **Best student paper award**, “Real-Time Secondary Spectrum Sharing with QoS Provisioning,” IEEE Consumer Communications and Networking Conference (CCNC) 2006.
2. **Outstanding Doctoral Dissertation in Electrical and Computer Engineering Award 2005**, Stevens Institute of Technology, Hoboken, NJ.
3. **Team Award** in the 2001 performance review at Wireless Communications Research Department, Bell Laboratories, Lucent Technologies inc., Holmdel, NJ.
4. **Student travel grants** by IEEE Communications society to International Conference on Universal Personal Communications (ICUPC) 1995, Tokyo, Japan and International Conference on Communications (ICC) 1995, Seattle, WA.
5. **Certificate of Merit** in IEEE Postgraduate Student Paper Contest conducted by IEEE Hong Kong section in 1994.
6. **“Mahapola” scholarship** by Ministry of Higher Education, Sri Lanka 1983-1990.
7. **Gold medal** for the best essay on the topic “National unity and integrity” in the all island level contest held by Lions Club, Sri Lanka in 1978 (in high school).
8. Listed in **Marquis Who’s Who of America**, 60th anniversary edition (2006-2007) and Who’s Who in Science and Engineering 2006-2007.