



# Dr. Atta-ur-Rahman

Assistant Professor

## Personal Data

Nationality | Pakistani

Date of Birth | October 1, 1982

Department | Computer Science

Official IAU Email | aaurrahman@iau.edu.sa

Office Phone No. | NA

## Language Proficiency

Language	Read	Write	Speak
Arabic	Yes	Yes	No
English	Yes	Yes	Yes
Urdu	Yes	Yes	Yes

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
Feb. 2013	PhD EE	ISRA University	Islamabad Campus, Pakistan
Apr. 2008	MS EE	International Islamic University	Islamabad, Pakistan
Apr 2004	BSCS	University of the Punjab	Lahore, Pakistan

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Adaptive Coding & Modulation for OFDM Systems using Fuzzy Rule Based System
Master	Spreading Code Analysis under GA Assisted MUD for Synchronous MC-CDMA System
Fellowship	

## Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Assistant Professor	Imam Abdulrahman Bin Faisal	College of Computer Science and Information Technology, building 400	Dammam, KSA	September 2016 – to date
Associate Professor	BIIT	PMAS-AA University	Rawalpindi, Pakistan	Oct. 2013-Sep. 2016
Assistant Professor	BIIT	PMAS-AA University	Rawalpindi, Pakistan	Feb. 2007-Oct. 2013
Lecturer	BIIT	PMAS-AA University	Rawalpindi, Pakistan	Feb. 2006-Feb.2007
Computer Instructor	Govt. College	of Commerce	Jauharabad Pakistan	May 2002-May 2003



### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Deputy Director (Academics, R&D)	BIIT, PMAS-AA University, Rawalpindi, Pakistan	Oct. 2012-Sep. 2016
Assistant Director (Academics)	BIIT, PMAS-AA University, Rawalpindi, Pakistan	Feb. 2010-Oct. 2012
Head Students Affairs	BIIT, PMAS-AA University, Rawalpindi, Pakistan	Feb. 2007-Oct. 2012

### Scientific Achievements

#### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Munir Ahmad, Muhammad Abdul Qadir, <b>Atta-ur-Rahman</b> , Rachid Zagrouba, Fahd Alhaidari, Tariq Ali & Farzana Zahid	Enhanced query processing over semantic cache for cloud based relational databases	Journal of Ambient Intelligence and Humanized Computing, 2020
2	D.A. Almubayedh, G. Alazman, M. Alkhalis, M. Alabdali, N. Nagy, M. Nagy, A.E. Tatar, M. Alfosail, <b>Atta-ur-Rahman</b> , N. Almubairik	Quantum Bit Commitment on IBM QX	Quantum Information Processing, 2020
3	A. Rehman, A. Athar, M.A. Khan, S. Abbas, <b>Atta-ur-Rahman</b> , A. Saeed	Modelling, Simulation, and Optimization of Diabetes Type II Prediction using Deep Extreme Learning Machine	Journal of Ambient Intelligence and Smart Environments, 2020
4	Gohar Zaman, Hairulnizam Mahdin, Khalid Hussain and <b>Atta-ur-Rahman</b>	Information Extraction from Semi and Unstructured Data Sources: A Systematic Literature Review	ICIC Express Letters, 2020
5	<b>Atta-ur-Rahman</b> , S. Dash, A.K. Luhach, N. Chilamkurti, S. Baek, Y. Nam	A Neuro-Fuzzy Approach for User Behavior Classification and Prediction	Journal of Cloud Computing: Advances, Systems and Applications (JoCCASA) 8(17), 2019.
6	D. Musleh, R. Ahmed, <b>Atta-ur-Rahman</b> , F. Al-Haidari	A NOVEL APPROACH TO ARABIC KEYPHRASE EXTRACTION	ICIC Express Letters B, 10 (10):875-884, 2019
7	H. M. Faisal, Z. Shaheen, <b>Atta-ur-Rahman</b> , G. Zaman, A. Alghamdi, N.A. Alowain	Knowledge Mapping for Research Papers	IJCSNS, 2019
8	<b>Atta-ur-Rahman</b>	Memetic Computing based Numerical Solution to Troesch Problem	Journal of Intelligent & Fuzzy Systems, IOS Press, 2019
9	M. Mahmud, <b>Atta ur Rahman</b> , M. Lee, J.Y. Choi	Evolutionary-based image encryption using RNA codons truth table	Optics & Laser Technology, Elsevier, 2019
10	<b>Atta-ur-Rahman</b>	Optimum Information Embedding in Digital Watermarking	Journal of Intelligent & Fuzzy Systems, IOS Press, 2019
11	M. Zaheer, I.M. Qureshi, K. Sultan, <b>Atta-ur-Rahman</b> , M.Z. Muzaffar, R.	High Capacity Image Steganography Based on Prime	Journal of Information Assurance and Security, 14 (3),



	Alnanih	Series Representation and Payload Redundancy Removal	pp-40-47, 2019.
12	S. Dash, S. Biswas, D. Banerjee, <b>Atta-ur-Rahman</b>	Edge and Fog Computing in Healthcare – A Review	Scalable Computing 20(2):191-206, May 2019.
13	<b>Atta-ur-Rahman</b> , F.A. Alhaidari, D. Musleh, M. Mahmud, M.A. Khan	Synchronization of Virtual Databases: A Case of Smartphone Contacts	J. Comput. Theor. Nanosci., vol. 16 (3), 2019.
14	<b>Atta-ur-Rahman</b> , F.A. Alhaidari	An Electronic Data Interchange Framework for Educational Institutes	ICIC Express Letters, vol.13, No. 9, September 2019
15	M. Ahmad, U. Farooq, <b>Atta-ur-Rahman</b> , A. Alqatari, S. Dash & A.K. Luhach	Investigating TYPE constraint for frequent pattern mining	Journal of Discrete Mathematical Sciences and Cryptography, 22:4, 605-626, 2019.
16	A. Alqahtani, F.A. Alhaidari, <b>Atta-ur-Rahman</b> , M. Mahmud, and K. Sultan	Decision Support System Assisted E-Recruiting System	J. Comput. Theor. Nanosci., vol. 16 (2), 335–340, 2019
17	Kiran Sultan, I.M. Qureshi, <b>Atta-ur-Rahman</b> , M. Zaheer	CSI based Multiple Relay Selection and Transmit Power Saving Problem for Underlay CRN using FRBS and Swarm Intelligence	IJAMC, vol. 10 (3), 2019. IGI Global
18	<b>Atta-ur-Rahman</b> , F.A. Alhaidari	The Digital Library and the Archiving System for Educational Institutes	Pakistan Journal of Information Management and Libraries (PJIM&L), vol. 20 (1), pp. 94-117, Dec 2018
19	M.Z. Muzaffar, I.M. Qureshi, <b>Atta-ur-Rahman</b> , F.A. Alhaidari, M.A.A. Khan	Compressed Sensing for Security and Payload Enhancement in Digital Audio Steganography	Journal of Information Hiding and Multimedia Signal Processing, 15(6):1506-1517, Nov. 2018
20	<b>Atta-ur-Rahman</b> , F.A. Alhaidari	Querying RDF Data	Journal of Theoretical and Applied Information Technology 26(22):7599-7614, 2018.
21	<b>Atta-ur-Rahman</b> , A. Bakry, K. Sultan, M.A.A. Khan, M. Farooqui, D. Musleh	Clinical Decision Support System in Virtual Clinic	Journal of Computational and Theoretical Nanoscience, 15(6):1795-1804, 2018.
22	S.N. Khan, N.M. Nawi, M. Imrona, A. Shahzad, A. Ullah, <b>Atta-ur-Rahman</b>	Opinion Mining Summarization and Automation Process: A Survey	International Journal on Advanced Science, Engineering and Information Technology, vol. 8 (5), 2018.
23	M. H. Salam, S. Memon, L. Das, <b>Atta-ur-Rahman</b> , Z. Hussain, R. H. Shah, N.A. Memon	Sensor based Survival Detection System in Earthquake Disaster Zones	International Journal of Computer Science and Network Security, vol. 18, no. 5, pp. 46-52, 2018.
24	<b>Atta-ur-Rahman</b>	Efficient Decision Based Spectrum Mobility Scheme for Cognitive Radio based V2V Communication System	Journal of Communications (2018), (Scopus)
25	<b>Atta-ur-Rahman</b> , Jamal Alhiyafi	HL7 Generic Web Interface	Journal of Computational and Theoretical Nanoscience (2018), (Scopus)



26	<b>Atta-ur-Rahman</b> , Dhiaa Musleh, Nahier Aldhafferi, Abdullah Alqahtani, Hassan Alfifi	Adaptive Communication for Capacity Enhancement: A Hybrid Intelligent Approach	Journal of Computational and Theoretical Nanoscience (2018), (Scopus)
27	Nahier Aldhafferi, Abdullah Alqahtani, <b>Atta-ur-Rahman</b> , Muhammad Azam	Constraint Based Rule Mining in Patient Claim Data	Journal of Computational and Theoretical Nanoscience (2018), (Scopus)
28	Kiran Sultan, <b>Atta-ur-Rahman</b> , Bassam Zafar, Nahier Aldhafferi, Abdullah Alqahtani	Intelligent Multiple Relay Selection and Transmit Power-Saving with ABC Optimization for Underlay Relay-assisted CRNs	Journal of Communications (2018), (Scopus)
29	Abdullah Alqahtani, Naheir Aldhafferi, <b>Atta-ur-Rahman</b> , Kiran Sultan, Mohammad Aftab Alam Khan	Adaptive Communication: A Systematic Review	Journal of Communications (2018), (Scopus)
30	<b>Atta-ur-Rahman</b> , Kiran Sultan, Nahier Aldhafferi, Abdullah Alqahtani	Education Data Mining for Enhanced Teaching and Learning	Journal of Theoretical and Applied Information Technology (2018), (Scopus)
31	<b>Atta-ur-Rahman</b> , Maqsood Mahmud, Kiran Sultan, Nahier Aldhafferi, Abdullah Alqahtani	Medical Image Watermarking for Fragility and Robustness: A Chaos, ECC and RRNS Based Approach	Journal of Medical Imaging and Health Informatics. (2018), (ISI WoS), (Scopus)
32	Maqsood Mahmud, <b>Atta-ur-Rahman</b> , Nahier Aldhafferi, Abdullah Alqahtani	Security Analysis of Liveness Authentication of Human Iris Templates: A Deep Learning Approach	Journal of Medical Imaging and Health Informatics. (2018), (ISI WoS), (Scopus)
33	<b>Atta-ur-Rahman</b> , Kiran Sultan, Dhiaa Musleh, Nahier Aldhafferi, Abdullah Alqahtani, Maqsood Mahmud	Robust and Fragile Medical Image Watermarking: A Joint Venture of Coding and Chaos Theories	Journal of Healthcare Engineering (2018), (ISI WoS), (Scopus)
34	<b>Atta-ur-Rahman</b> , Kiran Sultan, Nahier Aldhafferi, Abdullah Alqahtani, Maqsood Mahmud	Reversible and Fragile Watermarking for Medical Images	Computational and Mathematical Methods in Medicine (2018), (ISI WoS), (Scopus)
35	<b>Atta-ur-Rahman</b> , Aghiad Bakry, Kiran Sultan, Aftab Alam Khan, Mehwash Farooqui, Dhiaa Musleh	Clinical Decision Support System for Virtual Clinic	Journal of Computational and Theoretical Nanoscience (2018), (Scopus)
36	Muhammad Zeeshan Muzaffar, Ijaz Mansoor Qureshi, <b>Atta-ur-Rahman</b> , Fahd Abdulsalam Alhaidari, Mohammed Aftab Alam Khan, Kiran Sultan	Compressed Sensing for Security and Payload Enhancement in Digital Audio Steganography	Journal of Information Hiding and Multimedia Signal Processing (2018), (Scopus)
37	Muhammad Hammad-u-Salam, Shahzad Memon, Lachhman Das, <b>Atta-ur-Rehman</b> , Zahoor Hussain, Raza Hussain Shah, Nisar Ahmed Memon	Drone Based Resilient Network Architecture for Survivals in Earthquake Zones in Pakistan	Sindh University Research Journal, 2018
38	<b>Atta-ur-Rahman</b> , Saleh A. Alrashed, Ajith Abraham	User Behaviour Classification and Prediction Using Fuzzy Rule Based System and Linear Regression	Journal of Information Assurance and Security – 2018 (WoS - ISI indexed)
39	Muhammad Zaheer, Ijaz Mansoor Qureshi, <b>Atta-ur-Rahman</b> , Jamal Alhiyafi, Zeeshan Muzaffar	Improved and Secure Differential LSB Embedding Steganography	Journal of Information Assurance and Security – 2018 (WoS - ISI indexed)



40	Muhammad Zeeshan Muzaffar, Ijaz Mansoor Qureshi, <b>Atta-ur-Rahman</b>	WPM-LWT based Novel Robust Audio Steganography Technique	International Journal of Computer Science and Information Security – 2016 (WoS - ISI indexed)
41	<b>Atta-ur-Rahman</b> , Kiran Sultan, Sujata Das, Mohammed Aftab Alam Khan	Management of Resource Usage in Mobile Cloud Computing	International Journal of Pure and Applied Mathematics – 2018 (Scopus Indexed)
42	<b>Atta-ur-Rahman</b>	Application of Soft computing in Adaptive Communication	International Journal Control Theory and Applications - 2017 (Scopus Indexed)
43	<b>Atta-ur-Rahman</b> , Sujata Das	Big Data Analysis for Teacher Recommendation using Data Mining Techniques	International Journal Control Theory and Applications - 2017 (Scopus Indexed)
44	<b>Atta-ur-Rahman</b> , Sujata Das	Data Mining for Student's Trends Analysis Using Apriori Algorithm	International Journal Control Theory and Applications - 2017 (Scopus Indexed)
45	Zahoor Hussain, Shahzad Memon, Lachhman Das, <b>Atta-ur-Rahman</b>	Design of an On-Demand Electric Power Load Management Service for Smart Meters Using GSM	Science, Technology and Development
46	Hafiz Muhammad Faisala, Munir Ahmad, Sohail Asghar and <b>Atta-ur-Rahman</b>	Intelligent quranic story builder	International Journal of Hybrid Intelligent Systems
47	<b>Atta-ur-Rahman</b> , Qureshi I.M., Malik A.N., Naseem M.T.	A Real Time Adaptive Resource Allocation Scheme for OFDM Systems using GRBF-Neural Net. & Fuzzy Rule Base System	International Arab Journal of Information Technology, Zarqa University Press, Jordan, 2014
48	<b>Atta-ur-Rahman</b> , Qureshi I.M., Malik A.N., Naseem M.T.	QoS and Rate Enhancement in DVB-S2 using Fuzzy Rule Base System	Journal of Intelligent & Fuzzy Systems, IOS Press, 2016
49	Muzaffar M.Z., Qureshi I.M., <b>Atta-ur-Rahman</b> , Naseem M.T.	WPM-LWT based Novel Robust Audio Steganography Technique	International Journal of Computer Science & Information Security, August 2016
50	Ain, N.U., <b>Atta-ur-Rahman</b>	Quantum Cryptography: A Comprehensive Survey	Journal of Information Assurance and Security, 2016
51	<b>Atta-ur-Rahman</b> , Azam M., Zaman G.	Performance Comparison of Product Codes and Cubic Product Codes using FRBS for Robust Watermarking	International Journal of Computer Information Systems and Industrial Management Applications
52	Sultan, K, Zafar B.A., Khan W., <b>Atta-ur-Rahman</b>	SNR Maximization using Fuzzy Rule Based System in Relay Assisted Cognitive Radio Networks	Communications on Applied Electronics, March 2016
53	<b>Atta-ur-Rahman</b>	Knowledge Representation: A Semantic Network Approach	Handbook of Research on Computational Intelligence Applications in Bioinformatics, Edition: 1st, Chapter: 4, Publisher: IGI Global, 2016
54	Naseem M.T., Qureshi I.M., <b>Atta-ur-Rahman</b> , Muzaffar M.Z.,	Spread Spectrum based Invertible Watermarking for Medical Images	International Arab Journal of Information Technology, Zarqa



		using RNS & Chaos	University Press, Jordan, 2015
55	<b>Atta-ur-Rahman</b> , Saba N., Ain N.	A novel robust watermarking technique using Cubic Product Codes	Journal of Information Security Research, 2015
56	<b>Atta-ur-Rahman</b> , Qureshi I.M., Malik A.N., Naseem M.T.	Dynamic Resource allocation for OFDM Systems using Differential Evolution and Fuzzy Rule Base System	Journal of Intelligent & Fuzzy Systems, IOS Press, 2014
57	<b>Atta-ur-Rahman</b> , Qureshi I.M., Malik A.N., Naseem M.T.	A Real Time Adaptive Resource Allocation Scheme for OFDM Systems using GRBF-Neural Net. & Fuzzy Rule Base System	International Arab Journal of Information Technology, Zarqa University Press, Jordan, 2014
58	Naseem M.T., Qureshi I.M., <b>Atta-ur-Rahman</b> , Muzaffar M.Z.	Novel Technique for Capacity Maximizing in Digital Watermarking using FRBS	Journal of Intelligent & Fuzzy Systems, IOS Press, 2014
59	Naseem M.T., Qureshi I.M., <b>Atta-ur-Rahman</b> , Muzaffar M.Z.	Image Selection Criteria for Embedding desired Capacity using FRBS	Neural Network World, Czech Republic, 2014
60	Naseem, M.T., Qureshi, I.M., Cheema, T.A. <b>Atta-ur-Rahman</b> ,	Hash based Medical Image Authentication and Recovery using Chaos and Residue Number System	J. Basic Appl. Sci. Res., 2013
61	Sultan, K, Qureshi I.M., Khan W., <b>Atta-ur-Rahman</b> ,	Performance Enhancement of Secondary Network using Fuzzy Rule based System in Cognitive Relay Networks	European Journal of Scientific Research, 2013
62	Muzaffar M.Z., Qureshi I.M., <b>Atta-ur-Rahman</b> , Naseem M.T.	Changing Slope Method: A Novel Technique for Digital Audio Steganography	J. Basic Appl. Sci. Res., 2013
63	<b>Atta-ur-rahman</b> , Qureshi I. M. and Naseem M.T.	A Novel Technique for Reliable Image Transmission using Product Codes	International Journal of Computer Applications, Foundation in Computer Science, USA, 2013
64	<b>Atta-ur-rahman</b>	Teacher Assessment and Profiling using Fuzzy Rule based System and Apriori Algorithm	International Journal of Computer Applications, Foundation in Computer Science, USA, 2013
65	<b>Atta-ur-Rahman</b> , Qureshi I.M., Naseem M.T.	Performance of Modified Iterative Decoding Algorithm for Multilevel Codes in Adaptive OFDM System	International Journal of Computer Information Systems and Industrial Management Applications, MIR Labs, USA, 2013
66	<b>Atta-ur-Rahman</b> , Qureshi I.M.	Comparison of Coding Schemes over FRBS aided AOFDM Systems	Journal of Networking and Innovative Computing, MIR Labs, USA, 2013
67	<b>Atta-ur-Rahman</b> , Qureshi I.M., Malik A.N.	Adaptive Resource Allocation in OFDM Systems using GA and Fuzzy Rule Base System	World Applied Sciences Journal, 2012
68	<b>Atta-ur-Rahman</b> , Qureshi I.M., Malik A.N.	A Fuzzy Rule Base Assisted Adaptive Coding and Modulation	J. Basic Appl. Sci. Res., 2012



		Scheme for OFDM Systems	
69	<b>Atta-ur-Rahman</b> ; Naseem M.T., Muzaffar M.Z.	Reversible and Robust Watermarking using RNS and Product Codes	Journal of Information Assurance and Security, MIR Labs, USA, 2012
70	Shahzadi N., <b>Atta-ur-rahman</b> , Sawar M.J.	Semantic Network based Classifier of Holy Quran	International Journal of Computer Applications, Foundation in Computer Science, USA, 2012
71	<b>Atta-ur-Rahman</b> , Qureshi I.M., Muzaffar M.Z.	Adaptive Coding and Modulation for OFDM Systems using Product Codes and Fuzzy Rule Base System	International Journal of Computer Applications, Foundation in Computer Science, USA, 2011
72	Shahzadi N., <b>Atta-ur-rahman</b> , Shaheen A.	Semantic Network based Semantic Search of Religious Repository	International Journal of Computer Applications, Foundation in Computer Science, USA, 2011

#### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
1	F. Alhaidari, <b>Atta-ur-Rahman</b> , R. Zagrouba	Cloud of Things: Architecture, Applications and Challenges	Journal of Ambient Intelligence and Humanized Computing, 2020	June 2020
2	<b>Atta-ur-Rahman</b>	GRBF-NN Based Ambient Aware Realtime Adaptive Communication in DVB-S2	Journal of Ambient Intelligence and Humanized Computing, 2020	June 2020

#### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	J. Alhiyafi, <b>Atta-ur-Rahman</b> , F.A. Alhaidari, A. Alghamdi	Automatic Text Categorization using Fuzzy Semantic Network	SEAHF'19, 2019.
2	F.A. Alhaidari, <b>Atta-ur-Rahman</b> , M.A.A. Khan, S. Das	Motion Detection in Digital Video Recording Format with Static Background	SEAHF'19, 2019.
3	S. Das, A. Abraham, <b>Atta-ur-Rahman</b>	Kernel based Chaotic Firefly Algorithm for Diagnosing Parkinson's Disease	International Conference on Hybrid Intelligent Systems (HIS'18), Porto, Portugal, 2018.
4	M. Azam, <b>Atta-ur-Rahman</b> , K. Sultan, S. Das, S.N. Khan	Automated Testcase Generation and Prioritization Using GA and FRBS	Second International Conference, ICAICR 2018, Shimla, India, July 14–15, 2018.
5	Naveed Ahmed, <b>Atta-ur-Rahman</b> , Sujata Dash, Maqsood Mahmud	Flood Prediction Techniques Based on Geographical Information System using Wireless Sensor Networks	International Conference on Data and Information Systems (2017). In: Lecture Notes in Network and Systems, Springer Book Series (ISSN: 2367-3370)
6	<b>Atta-ur-Rahman</b> , Sultan	Differential Evolution Assisted MUD for	Innovations in Bio-Inspired Computing





	K., Aldhaffer N., Alqahtani A.	MC-CDMA Systems Using Non-Orthogonal Spreading Codes	and Applications. IBICA 2017. Advances in Intelligent Systems and Computing, vol 735. Springer, Cham, 2018
7	<b>Atta-ur-Rahman</b> et al	A Comprehensive Study of Mobile Computing in Telemedicine	Second International Conference, ICAICR 2018, Shimla, India, July 14–15, 2018
8	<b>Atta-ur-Rahman</b> , Kiran Sultan, Nahier Aldhaffer, Abdullah Alqahtani,	Differential Evolution Assisted MUD for MC-CDMA Systems Using Non-Orthogonal Spreading Codes	The 8th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2017). In: Advances in Intelligent Systems and Computing, Springer Series (ISSN: 2194-5357)
9	Muhammad Azam, <b>Atta-ur-Rahman</b> , Kiran Sultan, Sujata Das, Sundas Naqeeb Khan, Mohammed Aftab Alam Khan	Automated Testcase Generation and Prioritization using GA and FRBS	2nd International Conference on Advanced Informatics for Computing Research (2018). In: Communications in Computer and Information Science (CCIS), Springer Series (ISSN: 1865-0929)
10	Ain, N., <b>Atta-ur-Rahman</b>	Quantum Cryptography Trends: A Milestone in Information Security	International Conference on Hybrid Intelligent Systems (HIS'15), Nov. 2015
11	<b>Atta-ur-Rahman</b> , Qureshi I.M.	Effectiveness of Modified Iterative Decoding Algorithm for Cubic Product Codes	International Conference on Hybrid Intelligent Systems (HIS'14), Nov. 2014
12	<b>Atta-ur-Rahman</b> , Qureshi I.M.	Optimum Resource Allocation in OFDM Systems using FRBS and Particle Swarm Optimization	Nature and Biologically Inspired Computing (NaBIC'13), 2013
13	<b>Atta-ur-Rahman</b> , Qureshi I.M., Salam M.H., Naseem M. T	Efficient Link Adaptation in OFDM Systems using a Hybrid Intelligent Technique	International Conference on Hybrid Intelligent Systems (HIS'13), Dec. 2013
14	<b>Atta-ur-Rahman</b> , Zaidi D.N., Salam M.H., Jamil S.	User Behavior Classification using Fuzzy Rule Based System	International Conference on Hybrid Intelligent Systems (HIS'13), Dec. 2013
15	<b>Atta-ur-Rahman</b> , Qureshi I.M., Naseem M.T., Muzaffar M.Z.	An Intelligent Link Adaptation Scheme for OFDM based HYPERLAN5	International Conference of SoftComputing for Pattern Recognition (SoCPaR'13), 2013
16	<b>Atta-ur-Rahman</b> , Salam M.H., Jamil S.	A Telemedicine Proposal for Remote Areas of Pakistan	3 <sup>rd</sup> World Congress on Information and Communication Technologies (WICT'13), 2013
17	<b>Atta-ur-Rahman</b> , Qureshi I.M., Salam M.H., Muzaffar M. Z.	Adaptive Communication using Soft-computing Techniques	International Conference of SoftComputing for Pattern Recognition (SoCPaR'13), 2013
18	Naseem, M.T., Qureshi, I.M., <b>Atta-ur-Rahman</b>	Chaos based Secure and Reversible Watermarking	International Conference on Modeling and Simulation (ICOMS'13), 2013
19	Naseem, M.T., Qureshi, I.M., <b>Atta-ur-Rahman</b> , Muzaffar, M.Z.	Chaos based Invertible Authentication of Medical Images	IEEE Conference on Emerging Technologies (ICET'13), 2013
20	<b>Atta-ur-Rahman</b> , Qureshi I.M., Muzaffar M.Z., Naseem M.T.	A Fuzzy Rule Base Aided Rate Enhancement Scheme for OFDM Systems	IEEE Conference on Emerging Technologies (ICET'12), 2012





21	<b>Atta-ur-Rahman</b> , Qureshi I.M., Muzaffar M.Z., Naseem M.T.	FRBS based Rate Enhancement Scheme for OFDM Systems using Product Codes	IEEE 15 <sup>th</sup> International Multi-topic Conference (INMIC'12), 2012
22	<b>Atta-ur-Rahman</b> , Qureshi I.M., Naseem M.T., Muzaffar M.Z.	A GA-FRBS based Rate Enhancement Scheme for OFDM based HYPERLANS	10 <sup>th</sup> IEEE International Conference on Frontiers of Information Technology (FIT'12), 2012
23	<b>Atta-ur-Rahman</b> , Qureshi I.M., Muzaffar M.Z., Naseem M.T.	Adaptive Resource Allocation for OFDM Systems using Fuzzy Rule Base System and Water-filling Principle	IEEE Conference on Soft Computing for Pattern Recognition (SoCPaR'12), 2012
24	<b>Atta-ur-Rahman</b> , Qureshi I.M., Muzaffar M.Z., Naseem M.T.	Performance of Modified Iterative Decoding Algorithm for Multilevel Codes	IEEE International conference on Computational aspects of Social Networks (CaSoN'12), 2012
25	Naseem M.T., Qureshi I.M., <b>Atta-ur-Rahman</b>	Robust Watermarking for Medical Images Resistant to Geometric Attacks	IEEE 15 <sup>th</sup> International Multi-topic Conference (INMIC'12), 2012
26	<b>Atta-ur-Rahman</b> ; Naseem, M.T.; Qureshi, I.M.; Muzaffar, M.Z.	Reversible watermarking using Residue Number System	IEEE 7 <sup>th</sup> International Conference on Information Assurance and Security (IAS'11), 2011
27	<b>Atta-ur-Rahman</b> , Ghouri, S.A. Adeel, H., Waheed, A.	Performance of Modified Iterative Decoding Algorithm for Product codes	IEEE International Conference on Computational Aspects of Social Networks (CASoN'11), 2011

#### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
2017-307-CSIT	Atta-ur-Rahman (Deanship of Scientific Research)	Medical Image Authentication using Hybrid Intelligent Techniques in Digital Watermarking	May 2017

#### Current Researches

#	Research Title	Name of Investigator(s)

#### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution

#### Membership of Scientific and Professional Societies and Organizations

- IEICE Japan
- MIR Labs, USA

#### Teaching Activities



**Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)**

1	CS 513: Mobile Computing - Term 1, 2017-18 to date (Coordinator)
2	CS 414: Computer Organization - Term 1, 2016-17 to date (Coordinator)
3	CS 422: Language Theory and Finite Automata- Term 2, 2016-17 to date (Coordinator)
4	CS 516: Advance Programming Language – Term 2, 2017-18 to date (Coordinator)
5	CS 511: Project Proposal – Term 1, 2016-17 to date (Coordinator)
6	CS 521: Project Implementation – Term 2, 2016-17 to date (Coordinator)
7	CIS 517: Data Mining and Warehousing – Term 1, 2020-21

**Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)**

1	CS 614: Theory of Computation - Term 2 2017-18 & 2019-2020 (Coordinator)
2	

**Guest/Invited Lectures for Undergraduate Students**

#	Activity/Course Title and Code	Subject	College and University or Program	Date

**Student Academic Supervision and Mentoring**

#	Level	Number of Students	From	to
1	BS	30	2016	date
2	MS	2	2018	date
3	BS	500+	2006	2016
4	MS	20	2009	2016

**Supervision of Master and/or PhD Thesis**

#	Degree Type	Title	Institution	Date
1	MSCS	Semantic Network based Search and Classifier of Holy Quran	BIIT	2012
2	MSCS	Teacher Assessment and Profiling System	BIIT	2012
3	MSCS	Intelligent Network Advisor	BIIT	2012
4	MSCS	Analytical User Behavior Prediction	BIIT	2014



5	MSCS	Intelligent Routing Protocol for WSN	BIIT	2013
6	MSCS	HL7 Generic Intelligent Interface	BIIT	2014
7	MSCS	Frame based Rule Base System	BIIT	2013
8	MSCS	Semantic Search in Digital Archiving System	BIIT	2014
9	MSCS	Client Profiling in Health Industry	BIIT	2013
10	MSCS	Web Personalization to Increase website ranking using web usage mining	BIIT	2014
11	MSCS	Big Data Analysis	BIIT	2015
12	MSCS	CDSS for Virtual Clinic	BIIT	2015
13	MSCS	Crop Yield Maximization in Kisan Online	BIIT	2015
14	MSCS	Data mining for students' trend analysis	BIIT	2015
15	MSCS	Example based Learning and CV Selection	BIIT	2016
16	MSCS	Profiling based Customized Proxy Server	BIIT	2016
17	MSCS	Synchronization in Virtual Databases	BIIT	2016
18	MSCS	DSS for Blood Bank Organization	BIIT	2016
19	MSCS	Applying Data Mining Classification Techniques and Ensemble Learning to Identify Epileptic Pediatric	CCSIT, IAU	2019-2020

#### Ongoing Research Supervision

#	Degree Type	Title	Institution	Date

#### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

##### Administrative Responsibilities

#	From	To	Position	Organization

##### Committee Membership

#	From	To	Position	Organization
1	September 2018	date	Member	Scientific Research Committee, CCSIT, IAU
2	September 2019	date	Member	Practical Teaching Initiative Committee, CCSIT, IAU
3	September 2017	September 2018	Chair	Teaching and Learning Committee, CCSIT, IAU
4	September	Date	Member	Strategic and Planning Committee, CCSIT, IAU



	2017			
5	September 2017	Date	Member	Academic Accreditation Committee, CCSIT, IAU
6	September 2017	September 2018	Member	Teaching and Learning Quality Assurance Unit, CCSIT, IAU
7	September 2019	Date	Member	Practical Teaching Committee, CCSIT, IAU
8	September 2019	Date	Chair	Program Quality Unit, CCSIT, IAU

#### Scientific Consultations

#	From	To	Institute	Full-time or Part-time

#### Volunteer Work

#	From	To	Type of Volunteer	Organization

#### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	
2	

#### Last Update

19/05/2020