



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

كلية علوم الحاسب وتقنية المعلومات
College of Computer Science and Information Technology

Faculty Research Data

Department of Computer Science

2012 - 2017



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College of Computer Science and Information Technology

Faculty Research Publications (2012 - 2017)



Details of Research Publications (2012 - 2017)

#	Authors	Title of the paper	Journal Name	Publisher/IF	Year
1	M. Mahmud, Atta-ur-Rahman, N. Aldhafferi, A. Alqahtani	Security Analysis of Liveness Authentication of Human Iris Templates: A Deep Learning Approach	Journal of Medical Imaging and Health Informatics	American Scientific Publisher, USA (Scopus+ISI [0.621])	2017
2	H.M.Faisal, M. Ahmad, S. Asghar, Atta-ur-Rahman,	Intelligent Quranic Story Builder	International Journal of Hybrid Intelligent Systems	IOS Press, Netherland Scopus Indexed	2017
3	Atta-ur-Rahman, Saleh A. Rashed, A. Abraham	User Behaviour Classification and Prediction Using Fuzzy Rule Based System and Linear Regression	Journal of Information Assurance and Security	MIR Labs, USA ISI Indexed	2017
4	Z. Hussain, S. Memon, L.D. Dhomeja, Atta-ur-Rahman, S. Abbasi	Analysis of Non-Technical Electrical Power Losses and their economic Impact on Pakistan	Sindh University Research Journal	Sindh University, Pakistan	2017
5	Atta-ur-Rahman	Application of Soft computing in Adaptive Communication	International Journal of Control Theory and Applications	Serial Publications Scopus Indexed	2017
6	Atta-ur-Rahman, S. Das	Data Mining for Student's Trends Analysis Using Apriori Algorithm	International Journal of Control Theory and Application	Serial Publications Scopus Indexed	2017
7	Atta-ur-Rahman, S. Das	Big Data Analysis for Teacher Recommendation using Data Mining Techniques	International Journal of Control Theory and Application	Serial Publications Scopus Indexed	2017
8	Awais Ahmad, Anand	Energy Efficient Hierarchical Resource	IEEE Transactions on	n/a. IEEE	2017



	Paul, Muard Khan, Sohail Jabbar, Muhammad Mazhar Ullah Rathore, Naveen Chilamkurti, Nasro Min-Allah	Management for Mobile Cloud Computing	Sustainable Computing		
9	Li Chen, Yinrun Lyu, Chong Wang, Jingzheng Wu, Nasro Min-Allah, Jamal Alhiyafi, Yongji Wang	Solving Linear Optimization over Arithmetic Constraint Formula	Journal of Global Optimization		2017
10	Arwa AlKhunine, B.M. Imran	Improving Public Safety in Everyday's Life Using Mobile Computing Applications	International Journal of Computer Engineering and Recent Trends (IJCERT) 2017	IJCERT	2017
11	Sunday O. Olatunji	Improved email spam detection model based on support vector machines	Neural Comput. Appl	(ISI Web of Science- Thomson Reuters)/ Springer/ 2.505	2017
12	Ahmad A. Adewunmi, SuzyLawati Ismail, Taoreed O. Owolabi ,Abdullah S. Sultan,Sunday O. Olatunji , Zulkifli Ahmad	Modeling the thermal behavior of coal fly ash based polymer gel system for water reduction in oil and gas wells	Journal of Petroleum Science and Engineering.	(ISI Web of Science- Thomson Reuters)/Elsevier/ 1.873	2017
13	Taoreed. O. Owolabi, Kabiru .O. Akande, Sunday. O. Olatunji, Abdullah Alqahtani	Modeling of Curie temperature of manganite for magnetic refrigeration application using manual search and hybrid gravitational-based support vector regression	Soft computing	(ISI Web of Science- Thomson Reuters)/Springer /2.472	2017



	and Nahier Aldhafferri,				
14	Taoreed. O. Owolabi, Kabiru .O. Akande, Sunday. O. Olatunji, Abdullah Alqahtani and Nahier Aldhafferri	Incorporation of GSA in SBLLM-based neural network for enhanced estimation of magnetic ordering temperature of manganite	Journal of intelligent fuzzy and system	(ISI Web of Science-Thomson Reuters)/IOS/1.261	2017
15	K. O. Akande, T. O. Owolabi, S. O. Olatunji, and A. AbdulRaheem	A hybrid particle swarm optimization and support vector regression model for modeling permeability prediction of hydrocarbon reservoir.	Journal of Petroleum Science and Engineering.	(ISI Web of Science-Thomson Reuters)/Elsevier/1.873	2017
16	Babatunde Abiodun Salami, Megat Azmi Megat Johari, Zainal Arifin Ahmad, Taoreed Olakunle Owolabi, Mohammad Maslehuddin and Sunday Olusanya Olatunji	Modelling the early strength of Pofa-based alkali-activated mortar composites	Construction materials	(Scopus indexed)/ICE/	2017
17	Taoreed O Owolabi, Kabiru O Akande, Sunday O Olatunji, Abdullah Alqahtani, Nahier Aldhafferri	Incorporation of GSA in SBLLM-based neural network for enhanced estimation of magnetic ordering temperature of manganite	Journal of Intelligent & Fuzzy Systems		2017
18	Taoreed O Owolabi, Kabiru O Akande, Sunday O Olatunji, Abdullah Alqahtani, Nahier Aldhafferid	Modeling of Curie temperature of manganite for magnetic refrigeration application using manual search and hybrid gravitational-based support vector regression	Soft Computing		2017
19	Mohammad Aftab	Double Security of RFID Credit Cards	International Journal of	Google Scholar	2017



	Alam Khan, A.A.S. Qureshi, M. Farooqui		Computer Sciences and Engineering	Citation Index, Research gate/ International Journal of Computer Sciences and Engineering/IF: 2.638	
20	D. Düştegör, N. Sultana, N. Felemban, D. Alqahtani	Determinants, Barriers and Policy Implications to a Smarter Electricity Grid: the Case of the Eastern Province in Saudi Arabia	Utility Policy	WOS- SCOPUS/Elsevier/1.68 2	2017
21	Nehad Ibrahim, Alaa Hammouda, Sayed Nouh	New Approach for Text Mining of Arabic on the Web	International Journal of Computer Science and Information Security	ISSN 1974-5500, Pittsburgh, PA, USA	2017
22	Eltayeb Abuelayamn Saleh Alrashed Mohamed Alqahtani Yasser Bamarouf	Agile Alternatives to Galois Field for S-Box Entries	International Journal of Computer Science and Networks	1.5	2017
23	Eltayeb Abuelyaman Saleh Alrashed Abdullah Almuhaideb	Reduced Overhead of Changes in Secure Multicasting Membership",	International Journal of Computer Science and Networks	1.5	2017
24	Nazar Abbas Saqib, Yaqoot Shakeel, Muazzam Ali Khan, Hasan Mehmood and Muhammad Zia	An effective empirical approach to VoIP traffic classification	Turkish Journal of Electrical Engineering and Computer Sciences	0.518	2017
25	Muazzam A. Khan, Jawad Ahmad, Qaisar Javaid & Nazar A. Saqib	An Efficient and Secure Partial Image Encryption for Wireless Multimedia Sensor Networks using Discrete Wavelet Transform, Chaotic maps and Substitution box	Journal of Modern Optics ISSN: 0950-0340	1.267	2017
26	Marius Nagy and Naya Nagy	Quantum Oblivious Transfer: a secure practical implementation	Quantum Information Processing	15(12):5037-5050. DOI: 10.1007/s11128-	2016



				016-1438-1. Impact Factor:2.19	
27	Naya Nagy and Marius Nagy	Quantum Bit Commitment Within an Equivalence Class	International Journal of Unconventional Computing	12(5-6):413-432. Impact Factor:1.02	2016
28	Naya Nagy, Marius Nagy and Paul Hodor.	Cryptography and Information Protection in the Living World	International Journal of Unconventional Computing	12(2-3):133-143. Impact Factor:1.02	2016
29	Marius Nagy and Naya Nagy	Quantum-based secure communications with no prior key distribution	Soft Computing	20(1):87-101. DOI: 10.1007/s00500-014-1555-7. Impact Factor:2.47	2016
30	Z. Hussain, S. Memon, L.Das, Atta-ur-Rahman	Design of an On-Demand Electric Power Load Management Service for Smart Meters Using GSM	Science, Technology and Development	Science and Technology Division, Pakistan	2016
31	M.Z. Muzaffar, I.M. Qureshi, Atta-ur-Rahman	WPM-LWT based Novel Robust Audio Steganography Technique	International Journal of Computer Science and Information Security (IJCSIS),	USA ISI Indexed	2016
32	Atta-ur-Rahman, M.Azam, G.Zaman	Performance Comparison of Product Codes and Cubic Product Codes using FRBS for Robust Watermarking	International Journal of Computer Information Systems and Industrial Management Applications	MIR Labs, USA Scopus Indexed	2016
33	Atta-ur-Rahman, 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 (Scopus+ISI [1.812])	2016
34	Ain, N.U., Atta-ur-Rahman	Quantum Cryptography: A Comprehensive Survey	Journal of Information Assurance and Security	MIR Labs, USA ISI Indexed	2016
35	Sultan, K, Zafar B.A., Khan W., Atta-ur-	SNR Maximization using Fuzzy Rule Based System in Relay Assisted Cognitive Radio	Communications on Applied Electronics	Foundations of Computer Science	2016



	Rahman	Networks			
36	Saif Ur Rehman Malik, Samee U. Khan, Sam J. Ewen, Nikos Tziritas, Joanna Kolodziej, Albert Y. Zomaya, Sajjad Ahmad Madani, Nasro Min-Allah, Lizhe Wang, Cheng-Zhong Xu, Qutaibah M. Malluhi, Johnatan E. Pecero, Pavan Balaji, Abhinav Vishnu, Rajiv Ranjan, Sherali Zeadally, Hongxiang Li	Performance analysis of data intensive cloud systems based on data management and replication: a survey	Distributed and Parallel Databases 34(2): 179-215 (2016).	Impact Factor: 1.179, Springer	2016
37	Saif Ur Rehman Malik, Samee U. Khan, Sam J. Ewen, Nikos Tziritas, Joanna Kolodziej, Albert Y. Zomaya, Sajjad Ahmad Madani, Nasro Min-Allah, Lizhe Wang, Cheng-Zhong	Performance analysis of data intensive cloud systems based on data management and replication: a survey	Distributed and Parallel Databases	Impact Factor: 1.179, Springer	2016



	Xu, Qutaibah M. Malluhi, Johnatan E. Pecero, Pavan Balaji, Abhinav Vishnu, Rajiv Ranjan, Sherali Zeadally, Hongxiang Li				
38	Saleh Alrashed, Jamal Alhiyafi, Aamir Shafi, Nasro Min-Allah	An efficient schedulability condition for non-preemptive real-time systems at common scheduling points	The Journal of Supercomputing	Springer	2016
39	Ansar Javed, Bibrak Qamar, Mohsan Jameel, Aamir Shafi, Bryan Carpenter	Towards Scalable Java HPC with Hybrid and Native Communication Devices in MPJ Express	International Journal of Parallel Programming	Springer	2016
40	Muhammad Tariq Saeed, Jamil Ahmad, Shahzina Kanwal, Andreana N Holowatyj, Iftikhar A Sheikh, Rehan Zafar Paracha, Aamir Shafi, Amnah Siddiqa, Zurah Bibi, Mukaram Khan, Amjad Ali	Formal modeling and analysis of the hexosamine biosynthetic pathway: role of O-linked N-acetylglucosamine transferase in oncogenesis and cancer progression	PeerJ	PeerJ Inc.	2016
41	Alrashed, S., Alhiyafi, J., Shafi, A., Min- Allah, N	An efficient schedulability conditions for non-preemptive real-time systems at common scheduling points	Journal of Supercomputing		2016
42	B.Mohammed Imran, Alhanouf M. Al-	Towards Early Detection of Diabetic	International Journal of Pharma Medicine and	IJPMBS	2016



	Abdullatif, Bushra S. Al-Awwad, Mzoon M. Alwalmani, Sarah A. Al-Suhaibani, and Shahad A. Al-Sayah	Retinopathy Using Extended Fuzzy Logic,"	Biological Sciences, Vol. 5, No. 2, pp. 99-98, April 2016.		
43	K. O. Akande, T. O. Owolabi, S. O. Olatunji, and A. Abduraheem,	A Novel Homogenous Hybridization Scheme for Performance Improvement of Support Vector Machines Regression in Reservoir Characterization	J Appl. Comput. Intell. Soft Comput.,	(Thomson Reuter web of science)/ hindawi	2016
44	T. O. Owolabi, K. O. Akande, and S. O. Olatunji,	Computational Intelligence Approach for Estimating Superconducting Transition Temperature of Disordered MgB 2 Superconductors Using Room Temperature Resistivity,"	Appl. Comput. Intell. soft Comput of science)	(Thomson Reuter web of science)/ hindawi	2016
45	T. O. Owolabi, K. O. Akande, S. O. Olatunji, A. Alqahtani, and N. Aldhafferri	Estimation of Curie temperature of manganese-based materials for magnetic refrigeration application using hybrid gravitational based support vector regression	AIP Advances	(ISI Web of Science-Thomson Reuters)/AIP/ 1.43	2016
46	T. O. Owolabi, K. O. Akande, and S. O. Olatunji	Computational intelligence method of estimating solid-liquid interfacial energy of materials at their melting temperatures	J. Intell. fuzzy Syst.	(ISI Web of Science-Thomson Reuters)/IOS/ 1.261	2016
47	T. O. Owolabi, K. O. Akande, and S. O. Olatunji	Estimation of average surface energies of transition metal nitrides using computational intelligence technique	Soft Comput.	(ISI Web of Science-Thomson Reuters)/Springer /2.472	2016
48	A. A. Adewumi, T. O. Owolabi, I. O. Alade, and S. O. Olatunji	Estimation of physical, mechanical and hydrological properties of permeable concrete using computational intelligence approach	Appl. Soft Comput.	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 3.541	2016
49	T. O. Owolabi, Y. F. Zakariya, K. O.	Estimation of melting points of fatty acids using homogeneously hybridized support	Neural Comput. Appl	(ISI Web of Science-Thomson Reuters)/	2016



	Akande, and S. O. Olatunji,	vector regression		Springer/ 2.505	
50	T. O. Owolabi, K. O. Akande, and S. O. Olatunji	Application of computational intelligence technique for estimating superconducting transition temperature of YBCO superconductors	Appl. Soft Comput.,	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 3.541	2016
51	T. O. Owolabi, M. Faiz, S. O. Olatunji, and I. K. Popoola	Computational intelligence method of determining the energy band gap of doped ZnO semiconductor	Mater. Des	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 4.364	2016
52	Morufu Olusola Ibitoye Nur Azah Hamzaid Ahmad Khairi Abdul Wahab 1 , Nazirah Hasnan , Sunday Olusanya Olatunji and Glen M. Davis OAM	Estimation of Electrically-Evoked Knee Torque from Mechanomyography Using Support Vector Regression	Sensor.	(ISI Web of Science-Thomson Reuters)/ MDPI/ 2.677	2016
53	Taoreed O Owolabi, Kabiru O Akande, Sunday O Olatunji, Abdullah Alqahtani, Nahier Aldhaffer	Estimation of Curie temperature of manganite-based materials for magnetic refrigeration application using hybrid gravitational based support vector regression	AIP Advances		2016
54	Hari. Srivastava, Khadeejah Alhindi and Maslina. Darus	An investigation into the polylogarithm function and its associated class of meromorphic functions	Maejo International Journal of Science and Technology	Maejo University. ISI	2016
55	K. Al Safwan, F. AlShaer, L. Hakami, K. Aseeri, M. AlJishi, D. Düşteğör	Design and implementation of a residential energy monitoring system prototype tailored to meet local needs	International Journal of Computing and Digital Systems	INSPEC-Google Scholar- Ulrich's Periodicals Directory /University of	2016



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56	Faisal Nadeem, Muhammad Zia, Hasan Mahmood and Nazar A. Saqib	Bandwidth Efficient Transceiver Design for Differentially Encoded OFDM System	Wireless Networks ISSN:1022-0038	1.006	2016
57	A. Hussain, N. A. Saqib, M. Zia and H. Mahmood	Spectrum resource management in Wi-Fi networks through adaptable channelization	Electronics Letters ISSN: 0013-5194	0.93	2016
58	Nazar Abbas Saqib, Muhammad Zia, Hasan Mehmood and Muazzam A. Khan	On Generating High-Quality Random Numbers DOI: 10.1142/S0218126617500190	Journal of Circuits, Systems, and Computers ISSN: 0218-1266	0.308	2016
59	Naseem M.T., Qureshi I.M., Atta-ur-Rahman, Muzaffar M.Z.	Spread Spectrum based Invertible Watermarking for Medical Images using RNS & Chaos	International Arab Journal of Information Technology	Zarqa University Press, Jordan (Scopus+ISI [0.724])	2015
60	Atta-ur-Rahman, Saba N., Ain N.	A Novel Robust watermarking technique using Cubic Product Codes	Journal of Information Security Research	Digital Information Research Foundation	2015
61	M. B. Qureshi, M. M. Dehnavi, N. Min- Allah, M. S. Qureshi, H. Hussain, I. Rentifis, N. Tziritas, T. Loukopoulos,S. U. Khan, C.-Z. Xu, A. Y. Zomaya	Survey on Grid Resource Allocation Mechanisms”, Journal of Grid Computing, 12(2): 399-441 (2014).	Journal of Grid Computing, 12(2): 399- 441 (2014).	Impact Factor: 1.5, Springer	2015
62	Muhammad Bilal Qureshi, Saleh Alrashed, Nasro Min- Allah, Joanna Kolodziej, Piotr	Maintaining The Feasibility Of Hard Real-Time Systems With A Reduced Number Of Priority Levels	Applied Mathematics and Computer Science 25(4): 709- 722 (2015).	Impact Factor: 1.4,	2015



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63	Hamza Zafar, Farrukh Aftab Khan, Bryan Carpenter, Aamir Shafi, Asad Waqar Malik	MPJ Express meets YARN: towards Java HPC on Hadoop systems	Procedia Computer Science	Elsevier	2015
64	Musleh, Dhiaa, Khaldoun Halawani, and Sabri Mahmoud	Fuzzy Modeling for Handwritten Arabic Numeral Recognition	International Arab Journal of Information Technology	indexed by thomson reuters and elsevier IF: 0.724	2015
65	Naya Nagy, Marius Nagy and Selim G. Akl	Carving secret messages out of public information	Journal of Computer Science	11(1):64-70.	2015
66	K. O. Akande, T. O. Owolabi, and S. O. Olatunji	Investigating the effect of correlation-based feature selection on the performance of neural network in reservoir characterization	J. Nat. Gas Sci. Eng	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 2.718	2015
67	T. O. Owolabi, K. O. Akande, and S. O. Olatunji	Estimation of surface energies of hexagonal close packed metals using computational intelligence technique	Appl. Soft Comput.,	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 3.541	2015
68	K. O. Akande, T. O. Owolabi, and S. O. Olatunji	Investigating the effect of correlation-based feature selection on the performance of support vector machines in reservoir characterization	J. Nat. Gas Sci. Eng	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 2.718	2015
69	T. O. Owolabi, K. O. Akande, and S. O. Olatunji,	Development and validation of surface energies estimator (SEE) using computational intelligence technique	Comput. Mater.	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 2.292	2015
70	Adebayo, A.R., Abdurraheem, A., Olatunji, S.O.	Artificial intelligence based estimation of water saturation in complex reservoir systems	Journal of Porous Media	(ISI Web of Science-Thomson Reuters)/Begell house/ 1.035	2015
71	Olatunji, S.O, Selamat, A,	Modeling permeability and PVT properties of oil and gas reservoir using hybrid model based	Neurocomputing	(ISI Web of Science-Thomson Reuters)/	2015



	Abdulraheem, A	on type-2 fuzzy logic systems		Elsevier/ 3.317	
72	Ahmad, A.L., Adewole, J.K., Leo, C.P, Sultan, A.S, Olatunji, S.O.	Prediction of plasticization pressure of polymeric membranes for CO2 removal from natural gas	Journal of Membrane Science	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 6.035	2015
73	Asafa, T.B., Adeniran, A.A., Olatunji, S.O	Functional networks models for rapid characterization of thin films: An application to ultrathin polycrystalline silicon germanium films	Appl. Soft Comput.	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 3.541	2015
74	T. O. Owolabi, K. O. Akande, and S. O. Olatunji	Estimation of surface energies of face-centred cubic metals using computational intelligence technique	Int. J. Mater. Eng. Innov	(Scopus Indexed)/Inderscience/	2015
75	T. O. Owolabi, K. O. Akande, and O. O. Sunday,	Modeling of average surface energy estimator using computational intelligence technique	Multidiscip. Model. Mater. Struct.,	(Scopus Indexed)/ Emerald /	2015
76	Khadeejah Alhindi, Maslina Darus	Certain properties of an operator involving the generalized hypergeometric functions	Proceedings of the Pakistan Academy of Sciences	Pakistan Academy of Science. SCOPUS	2015
77	K. Alissa, J. Reid, E. Dawson, and F. Salim.	BP-XACML an authorization policy language for business processes.	Information Security and Privacy	Springer International Publishing.	2015
78	Waqar Farooq, Muazzam A. Khan, SaadRehman, and Nazar Abbas Saqib	A Survey of Multicast Routing Protocols for Vehicular Ad Hoc Networks Article ID: 923086 DOI:10.1155/2015/923086	International Journal of Distributed Sensor Networks ISSN: 1550-1329	0.906	2015
79	Awais Ahmed, Zia Muhammad, HasanMahmood, Nazar Abbas Saqib	Partial Automatic Repeat Request Transceiver for Bandwidth and Power Efficient Multiple-Input–Multiple-Output Orthogonal Frequency Division Multiplexing Systems DOI:10.1049/iet-com.2014.0159	IET Communications ISSN: 1751-8628	0.624	2015
80	Muhammad Mazhar	Energy Harvesting and Management in	Journal of Circuits,	0.308	2015



	Abbas, Muhammad Zia, Khalid Saleem, Nazar Abbas Saqib, Hasan Mahmood	Wireless Networks for Perpetual Operations DOI: http://dx.doi.org/10.1142/S0218126615500413	Systems, and Computers ISSN: 0218-1266		
81	Atta-ur-Rahman, 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 (Scopus+ISI [1.812])	2014
82	Atta-ur-Rahman, Qureshi I.M., Malik A.N., Naseem M.T.,	A Real Time Adaptive Resource Allocation Scheme for OFDM Systems using GRBF-Neural Networks and Fuzzy Rule Base System	International Arab Journal of Information Technology	Zarqa University Press, Jordan (Scopus+ISI [0.724])	2014
83	Naseem M.T., Qureshi I.M., Atta-ur-Rahman, Muzaffar M.Z.	“Novel Technique for Capacity Maximizing in Digital Watermarking using FRBS	Journal of Intelligent & Fuzzy Systems	IOS Press (Scopus+ISI [1.812])	2014
84	Naseem M.T., Qureshi I.M., Atta-ur-Rahman, Muzaffar M.Z.,	Image Selection Criteria for Embedding desired Capacity using FRBS	Neural Network World	NNW.CZ (Scopus+ISI [0.412])	2014
85	Kashif Bilal, S.U. Khan, N Min-Allah, S.A. Madani	Quantitative Comparisons of the State of the Art Data Center Architectures	Concurrency and Computation: Practice and Experience	Impact Factor: 1.33, Wiley	2014
86	Jingzheng Wu, Liping Ding, Yanjun Wu, Nasro Min-Allah, Samee U. Khan, Yongji Wang	C2 Detector: A Covert Channel Detection Framework in Cloud Computing, Security and Communication Networks,	Security and Communication Networks, 2013. Impact Factor: 0.414.	Impact Factor: 1.06, Wiley	2014
87	Bibrak Qamar, Ansar Javed, Mohsan Jameel, Aamir Shafi, Bryan Carpenter	Design and implementation of hybrid and native communication devices for Java HPC	Procedia Computer Science	Elsevier	2014
88	Omar Khan, Mohsan Jameel, Aamir Shafi	High Performance Message-passing InfiniBand Communication Device for Java	Procedia Computer Science	Elsevier	2014



		HPC			
89	Olatunji, S.O.Selamat, A., Abdulraheem, A	A hybrid model through the fusion of type-2 fuzzy logic systems and extreme learning machines for modelling permeability prediction	Information fusion	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 5.667	2014
90	Olatunji, S.O, Selamat, A, Abdulraheem, A	Improved sensitivity based linear learning method for permeability prediction of carbonate reservoir using interval type-2 fuzzy logic system	Applied soft computing	(ISI Web of Science-Thomson Reuters)/ Elsevier/ 3.541	2014
91	T. O. Owolabi, K. O. Akande, and S. O. Olatunji	Estimation of Superconducting Transition Temperature T C for Superconductors of the Doped MgB2 System from the Crystal Lattice Parameters Using Support Vector Regression	J. Supercond. Nov. Magn.	(ISI Web of Science-Thomson Reuters)/ Springer/ 1.02	2014
92	Hafsa Yazdani, Fatemah Al Zayer, Naya Nagy and Marius Nagy	Turing Machine Simulations: Classic and Quantum	International Journal of Computer and Electrical Engineering	6(1):49-53	2014
93	Khadeejah Alhindi, Maslina Darus	New class of analytic functions associated with the generalized hypergeometric functions	Acta Universitatis Apulensis		2014
94	Khadeejah Alhindi, Maslina Darus	Study on new class of convex functions	American Institute of Physics Conference Series	AIP Publishing. ISI	2014
95	Khadeejah Alhindi, Maslina Darus	Certain properties for a class of analytic functions associated with hypergeometric functions	Journal of Numerical Analysis and Approximation Theory	București: Romania.	2014
96	Khadeejah Alhindi, Maslina Darus	A new class of meromorphic functions involving the polylogarithm function	Journal of Complex Analysis	Hindawi	2014
97	Muhammad Zia, Tamour Kiani, Nazar A. Saqib, Tariq Shah, and Hasan Mahmood	Bandwidth Efficient Selective Retransmission for MIMO-OFDM Systems DOI: http://dx.doi.org/10.4218/etrij.15.0114.0050	ETRI Journal ISSN: 1225-6463	0.809	2014



98	Abid Hussain, Nazar A. Saqib, Usman Qamar, Muhammad Zia, and Hassan Mahmood	Protocol-Aware Radio Frequency Jamming in Wi-Fi and Commercial Wireless Networks DOI: 10.1109/JCN.2014.000069	Journal of Communications and Networks ISSN: 1229-2370	0.920	2014
99	Muhammad Mazhar Abbas Mohamed Tawhid Khalid Saleem Hassan Mahmood Hafiz Malik, Muhammad Zia, and Nazar Abbas Saqib	Solar Energy Harvesting and Management in Wireless Sensor Networks Article ID 436107 DOI: http://dx.doi.org/10.1155/2014/436107	International Journal of Distributed Sensor Networks ISSN: 1550-1329	0.906	2014
100	Atta-ur-Rahman, 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 Scopus Indexed	2013
101	Naseem, M.T., Qureshi, I.M., Cheema, T.A. Atta-ur-Rahman	Hash based Medical Image Authentication and Recovery using Chaos and Residue Number System	J. Basic Appl. Sci. Res.	Text road journals, Egypt ISI Indexed	2013
102	Sultan, K, Qureshi I.M., Khan W., Atta-ur-Rahman,	Performance Enhancement of Secondary Network using Fuzzy Rule based System in Cognitive Relay Networks	European Journal of Scientific Research	European Journals ISI Indexed	2013
103	Muzaffar M.Z., Qureshi I.M., Atta-ur-Rahman, Naseem M.T.	Changing Slope Method: A Novel Technique for Digital Audio Steganography	J. Basic Appl. Sci. Res.	Text road journals, Egypt ISI Indexed	2013
104	Atta-ur-rahman, Qureshi I. M. and Naseem M.T.	A Novel Technique for Reliable Image Transmission using Product Codes	International Journal of Computer Applications	Foundations of Computer Science	2013



105	Atta-ur-rahman	Teacher Assessment and Profiling using Fuzzy Rule based System and Apriori Algorithm	International Journal of Computer Applications	Foundations of Computer Science	2013
106	Atta-ur-Rahman, Qureshi I.M.	Comparison of Coding Schemes over FRBS aided AOFDM Systems	Journal of Networking and Innovative Computing	Mir Labs, USA	2013
107	Atta-ur-Rahman; Naseem M.T., Muzaffar M.Z	Reversible and Robust Watermarking using Residue Number System and Product Codes	Journal of Information Assurance and Security	MIR Labs, USA ISI Indexed	2013
108	Kashif Bilal, S.U. Khan, N Min-Allah, S.A. Madani	Quantitative Comparisons of the State of the Art Data Center Architectures	Concurrency and Computation: Practice and Experience, 25(12): 1771-1783 (2013).	Impact Factor: 1.33, Wiley	2013
109	Jingzheng Wu, Liping Ding, Yanjun Wu, Nasro Min-Allah, Samee U. Khan, Yongji Wang	C2 Detector: A Covert Channel Detection Framework in Cloud Computing, Security and Communication Networks,	Security and Communication Networks, 2013. Impact Factor: 0.414.	Impact Factor: 1.06, Wiley	2013
110	Kashif Bilal, S.U. Khan, N Min-Allah, S.A. Madani	Quantitative Comparisons of the State of the Art Data Center Architectures	Concurrency and Computation: Practice and Experience, 25(12): 1771-1783 (2013).	Impact Factor: 1.33, Wiley	2013
111	Jingzheng Wu, Liping Ding, Yanjun Wu, Nasro Min-Allah, Samee U. Khan, Yongji Wang	C2 Detector: A Covert Channel Detection Framework in Cloud Computing, Security and Communication Networks,	Security and Communication Networks, 2013. Impact Factor: 0.414.	Impact Factor: 1.06, Wiley	2013
112	Kashif Bilal, S.U. Khan, N Min-Allah, S.A. Madani	Quantitative Comparisons of the State of the Art Data Center Architectures	Concurrency and Computation: Practice and Experience, 25(12): 1771-1783 (2013).	Impact Factor: 1.33, Wiley	2013



113	Jingzheng Wu, Liping Ding, Yanjun Wu, Nasro Min-Allah, Samee U. Khan, Yongji Wang	C2 Detector: A Covert Channel Detection Framework in Cloud Computing, Security and Communication Networks,	Security and Communication Networks, 2013. Impact Factor: 0.414.	Impact Factor: 1.06, Wiley	2013
114	Kashif Bilal, S.U. Khan, N Min-Allah, S.A. Madani	Quantitative Comparisons of the State of the Art Data Center Architectures	Concurrency and Computation: Practice and Experience, 25(12): 1771-1783 (2013).	Impact Factor: 1.33, Wiley	2013
115	Aisha Meethian, B.M.Imran,	Real Time Hand Tracking System	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Ess & Ess Research Publications, India	2013
116	Merin Ayshu Ali, B.M.Imran,	An Efficient Approach for Change Detection in SAR Images Based on Contourlet Fusion	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Ess & Ess Research Publications, India	2013
117	Aswathy Jeevan, B.M.Imran,	Microgrid Inverter Operation in Three Phase Grid-Connected and Disconnected Modes	International Journal of Engineering Science and Technology (IJEST)	IJEST	2013
118	Aisha Meethian, B.M.Imran,	Real Time Gesture Recognition Using Gaussian Mixture Model	International Journal of Scientific and Engineering Research	IJSER	2013
119	Anu S Nair, B.M.Imran,	An Unsupervised Hybrid GA approach for Identifying Brain Pathological Tissue in MRI images	International Journal of Computational Intelligence	IJCIR	2013
120	Merin Ayshu Ali,	Change Detection in SAR Images using	International Journal of	IJSER	2013



	B.M.Imran,	Contourlet	Scientific and Engineering Research		
121	Khadeejah Alhindi, Maslina Darus	Fekete-Szegö inequalities for Sakaguchi type functions and fractional derivative operator	American Institute of Physics Conference Series	AIP Publishing. ISI	2013
122	Zia Muhammad, Hasan Mahmood, Awais Ahmed, and Nazar Abbas Saqib	Selective HARQ Transceiver Design for OFDM System DOI: 10.1109/LCOMM.2013.101613.131869	IEEE Communications Letters ISSN: 1089-7798	1.291	2013
123	Nadeem Sufyan, Nazar Abbas Saqib and Muhammad Zia	Detection of Jamming Attacks in 802.11b Wireless Networks Paper ID: 2013:208 DOI:10.1186/1687-1499-2013-208	EURASIP Journal on Wireless Communications and Networking ISSN: 1687-1499	0.627	2013
124	Atta-ur-Rahman, Qureshi I.M., Malik A.N.	Adaptive Resource Allocation in OFDM Systems using GA and Fuzzy Rule Base System	World Applied Sciences Journal	International Digital Organization for Scientific Information [ISI Indexed]	2012
125	Atta-ur-Rahman, Qureshi I.M., Malik A.N.	A Fuzzy Rule Base Assisted Adaptive Coding and Modulation Scheme for OFDM Systems	J. Basic Appl. Sci. Res.	Text road journals, Egypt ISI Indexed	2012
126	Shahzadi N., Atta-ur-rahman, Sawar M.J.	Semantic Network based Classifier of Holy Quran	International Journal of Computer Applications	Foundations of Computer Science	2012
127	Nasro Min-Allah, Samee Ullah Khan, Wang Youngji	Optimal Task Execution Times for Periodic Tasks Using Nonlinear Constrained Optimization	Journal of Supercomputing, pp. 1-19, 2010.	Impact Factor: 1.326, Springer	2012
128	Oscar Diaz, Feng Xu, Nasro Min-Allah, Mahmoud Khodeir, Min Peng, Samee Khan, Nasir Ghani	Network Survivability for Multiple Probabilistic Failures	IEEE Communications Letters 16(8): 1320-1323	Impact Factor: 1.4, IEEE	2012



129	Nasro Min-Allah, Samee Ullah Khan, Nasir Ghani, Juan Li, Lizhe Wang, and Pascal Bouvry,	A Comparative Study of Rate Monotonic Schedulability Tests	Journals of Supercomputing, 59(3), pp. 1120-1138, 2012. Impact Factor: 0.545 (2010)	Impact Factor: 1.326, Springer	2012
130	Sameee Ullah Khan, Nasro Min-Allah	A Goal Programming Based Energy Efficient Resource Allocation in Data Centers	Journals of Supercomputing, 10.1007/s11227-011-0611-7, 2011. Impact	Impact Factor: 1.326, Springer	2012
131	G. L. Valentini, W. Lassonde, S. U. Khan, N. Min-Allah, S. A. Madani, J. Li, L. Zhang, L. Wang, N. Ghani, J. Kolodziej, H. Li, A. Y. Zomaya and P. Bouvry	An Overview of Energy Efficiency Techniques in Cluster Computing Systems,	Cluster Computing, 16(1): 3-15 (2013).	Impact Factor: 1.51, Springer	2012
132	Alhiyafi, J., Lu, S. and Ram, J.L.	Scientific Workflow Composition in Heterogeneous Environments	International Journal of Intelligent Information Processing		2012
133	Ali Selamat, Sunday Olusanya Olatunji, and Abdul Azeez Abdul Raheem,	“A Hybrid Model through the Fusion of Type-2 Fuzzy Logic Systems and Sensitivity-Based Linear Learning Method for Modeling PVT Properties of Crude Oil Systems	Advances in Fuzzy Systems, vol.	(Thomson Reuter web of science)/ hindawi /	2012
134	Mohammad Aftab Alam Khan, M Farooqui, I Budhiraja	Performance Analysis of SFBC-OFDM System with Frequency Domain Equalization	International Journal of Scientific & Engineering Research	Thomson Reuters, Google Scholar/ IJSER In Research Publication/ IF: 3.8	2012
135	MKP I. Budhiraja,	Multi-Band Stacked Microstrip Patch Antenna	Journal of	Google Scholar/Journal	2012



	Mohammad Aftab A. Khan, Mehwash Farooqui	For Wireless Applications	Telecommunications	of Telecommunications	
136	Marius Nagy and Naya Nagy	Quantum Tic-Tac-Toe: A Genuine Probabilistic Approach	Applied Mathematics (Special Issue - Computing)	3(11A):1779-1786	2012



Faculty Attended Conferences (2012 - 2017)



Conference Participations (2012 - 2017)

#	Authors	Title of the paper	Conference	Presented/Poster	Year
1	Atta-ur-Rahman, K. Sultan, N. Aldhafferi, A. Alqahtani	Differential Evolution Assisted MUD for MC-CDMA Systems using Non-Orthogonal Spreading Codes	8th International Conference on Innovations in Bio-inspired Computing and Applications (IBICA'17), Springer	Poster	2017
2	N. Ahmed, Atta-ur-Rahman, S. Das, M. Mahmud	Flood Prediction Techniques Based on Geographical Information System using Wireless Sensor Networks	International Conference on Data and Information Sciences (ICDIS'2017), Springer	Poster	2017
3	Dania Abed Aljawad ; Ebtesam Alqahtani ; Ghaidaa AL-Kuhaili ;Nada Qamhan ; Noof Alghamdi ; Saleh Alrashed ; Jamal Alhiyafi ;Sunday O. Olatunji	Breast Cancer Surgery Survivability Prediction Using Bayesian Network and Support Vector Machines	2017 International Conference on Informatics, Health & Technology (ICIHT)	Presented	2017
4	Ms. Huda Al-Shehri, Ms. Amani Al-Qarni, Ms. Leena Alsaati, Ms. Arwa Batoaq, Ms. Haifa Badukhen, Dr. Jamal Alhiyafi, Dr. Saleh Al-Rashid, Dr. Sunday Olusanya Olatunji	Student Performance Prediction Using Support Vector Machine and K-Nearest Neighbor	2017 IEEE 30th Canadian Conference on Electrical and Computer Engineering (CCECE)		2017
5	Sunday O. Olatunji,	Extreme Learning machines and Support Vector Machines models for email spam detection	2017 IEEE Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA) (Scopus indexed)	Presented	2017



6	Huda Al-Shehri, Amani Al-Qarni, Leena Al-Saati, Arwa Batoaq, Haifa Badukhen, Saleh Alrashed, Jamal Alhiyafi, Sunday O. Olatunji,	Student Performance Prediction Using Support Vector Machine and K-Nearest Neighbor),	2017 IEEE Conference on Cognitive and Computational Aspects of Situation Management (CogSIMA) (Scopus indexed)	Presented	2017
7	Dania Abed Aljawad, Ebtesam Alqahtani, Ghaidaa Al-Kuhaili, Nada Qamhan, Noof Alghamdi, Saleh Alrashed, Jamal Alhiyafi and Sunday O. Olatunji,	"Breast cancer Surgery Survivability Prediction Using Bayesian Network and Support Vector Machines,	International Conference on Informatics, Health & Technology (ICIHT 2017). Riyadh, Saudi Arabia. (Scopus indexed)	Presented	2017
8	Ibrahim Abuaqel, Abdullah Alsaif, Mohammed Almulhim, Mohammed Aljallal, Musab Alghuraibi, Mujahid Alzahrani, Abdulrahman Alharby and Sunday Olatunji,	Prediction Models Aided Postoperative Decision Making Based on Neural Network and Support Vector Machines,	International Conference on Informatics, Health & Technology (ICIHT 2017). Riyadh , Saudi Arabia(Scopus indexed)	Presented	2017
9	Reem Alyami, Jinan Alhajjaj, Batool Alnajrani, Ilham Elaalami, Abdullah Alqahtani, Nahier Aldhafferi, Sunday O Olatunji and Taoreed O. Owolabi,	Investigating the effect of Correlation based Feature Selection on breast cancer diagnosis using Artificial Neural Network and Support Vector Machines	International Conference on Informatics, Health & Technology (ICIHT 2017). Riyadh , Saudi Arabia (Scopus indexed)	Presented	2017
10	Reem Alyami, Jinan Alhajjaj, Batool Alnajrani, Ilham Elaalami, Abdullah Alqahtani, Nahier Aldhafferi, Taoreed O Owolabi, Sunday O Olatunji	Investigating the effect of correlation based feature selection on breast cancer diagnosis using artificial neural network and support vector machines	International Conference on Informatics, Health & Technology (ICIHT)	Presented	2017
11	M. Elhusein, D. Düştegör	Tracing Back the Chain: Cognitive Pre-requisite	9th International Conference on Education Technology and Computers	Poster	2017



		Analysis for CIS Capstone Project			
12	H. Sameh, K. Aiman, D. Düştegör	A Remotely Piloted Aerial System for a Faster Processing of Traffic Collisions	9th IEEE GCC conference	Presented	2017
13	Alaa Alahmadi, Arash Joorabchi and Abdulhussain E. Mahdi	Combining Words and Concepts for Automatic Arabic Text Classification	The 6th International Conference on Arabic Language Processing (ICALP 2017)	Presented	2017
14	Arash Joorabchi, Alaa Alahmadi, Michael English and Abdulhussain E. Mahdi	A Computationally Efficient Measure for Word Semantic Relatedness Using Time Series	the 9th IEEE-GCC Conference and Exhibition 2017 (IEEE-GCC 2017)	Presented	2017
15	S. O. Olatunji, Selamat, A., & Abdul Azeez, A. R.	Harnessing the Power of Type-2 Fuzzy Logic System to achieved improved permeability prediction accuracy in a hybrid setting.	SPE Saudi Arabia Section Annual Technical Symposium and Exhibition, 24-28 April, 2016 Al-Khobar, Saudi Arabia, Society of Petroleum Engineers. (Scopus indexed)	Presented	2016
16	S. O. Olatunji, Selamat, A., & Abdul Azeez, A. R.	Harnessing the Power of Type-2 Fuzzy Logic System to achieved improved permeability prediction accuracy in a hybrid setting.	SPE Saudi Arabia Section Annual Technical Symposium and Exhibition, 24-28 April, 2016 Al-Khobar, Saudi Arabia, Society of Petroleum Engineers. (Scopus indexed)	Presented	2016
17	Sundus Ayyaz, Muazzam A. Khan , Jawad Ahmad , Cory Beard , Baek Y. Choi , Nazar A. Saqib	A Novel Security System for Preventing DoS Attacks on 4G LTE Networks.	International Conference on Wireless Networks (ICWN), pp. 85-91, 25-28 July, 2016, Las Vegas, Nevada, USA.	Presented	2016



18	Amna W. Awan, Nazar A. Saqib and Muazzam A. Khan,	“Intelligent Actor Mobility with Event Tracking in Wireless Sensor and Actor Networks”,	In proceedings of IEEE 45th International Conference on Parallel Processing Workshops (ICPPW), pp. 1-6, 16-19 August 2016, Philadelphia, Pennsylvania, USA	Presented	2016
19	Muhammad Saqlain, Wahid Hussain, Nazar A. Saqib, Muazzam A. Khan,	“Identification of Heart Failure by Using Unstructured Data of Cardiac Patients”,	In proceedings of IEEE 45th International Conference on Parallel Processing Workshops (ICPPW)	Presented	2016
20	Ain, N., Atta-ur-Rahman, Nadeem M. Abbasi A.G.	Quantum Cryptography Trends: A Milestone in Information Security	International Conference on Hybrid Intelligent Systems	Poster	2015
21	Shahid Nawaz, Asad W Malik, Aamir Shafi, Samee U Khan	Cloud and E-commerce adoption	12th International Conference on High-Capacity Optical Networks and Enabling/Emerging Technologies (HONET)	Presented	2015
22	Qasim Maqbool, Sohaib Ayub, Junaid Zulfiqar, Aamir Shafi	Virtual TCAM for data center switches	IEEE Conference on Network Function Virtualization and Software Defined Network (NFV-SDN), 2015	Presented	2015
23	K. Al Safwan, F. AlShaer, L. Hakami, K. Aseeri, M. AlJishi, D. Düştegör	Itrack: a residential electricity monitoring system adapted to local needs	IEEE International Symposium on Web of Things and Big Data (WoTBD 2015)	Presented	2015
24	D. Düştegör, N. Sultana, N.M. Felemban. D. Alqahtani	Public Acceptance of Renewable Energy and SmartGrid in Saudi Arabia	8th IEEE GCC Conference	Presented	2015
25	Olatunji, S. O., Selamat, A., & Abdul Azeez, A. R.	Harnessing the Power of Type-2 Fuzzy Logic System in the Prediction of Reservoir Properties.	SPE Saudi Arabia Section Annual Technical Symposium and Exhibition, 21-23 April, 2015 Al-Khobar, Saudi Arabia, Society of Petroleum Engineers. (Scopus indexed)	Presented	2015



26	K. O. Akande, S. O. Olatunji, T. O. Owolabi, and A. AbdulRaheem,	Feature Selection-Based ANN for Improved Characterization of Carbonate Reservoir	society of petroleum engineers Conference, 2015 (Published in Scopus)	Presented	2015
27	K. O. Akande, S. O. Olatunji, T. O. Owolabi, and A. AbdulRaheem,	Comparative Analysis of Feature Selection-Based Machine Learning Techniques in Reservoir Characterization	society of petroleum engineers Conference, 2015 (Published in Scopus)	Presented	2015
28	Olatunji, S. O., Selamat, A., & Abdul Azeez, A. R.	Harnessing the Power of Type-2 Fuzzy Logic System in the Prediction of Reservoir Properties.	SPE Saudi Arabia Section Annual Technical Symposium and Exhibition, 21-23 April, 2015 Al-Khobar, Saudi Arabia, Society of Petroleum Engineers. (Scopus indexed)	Presented	2015
29	M. Aljabri, H-W. Loidl, and P.W. Trinder.	Assessing the Scalability Issues on Many-Core NUMA machines	Proceedings of the Saudi Student Conference 2015, London, UK, 1 Feb 2015. The 8th Saudi Students Conference, London, UK, 1037	Presented paper	2015
30	Naya Nagy, Marius Nagy, Yomna Al-Ibrahim, Zahra Almahfoudh and Alla Altalib	Security Measures in a Keyless Quantum Communication Protocol	Proceedings of the Fifth International Conference on e-learning: Cognitively Informed Technology. Manama, Kingdom of Bahrain.	Presented	2015
31	Naya Nagy, Marius Nagy and Selim G. Akl.	Communicating secret information without secret messages in wireless sensor networks	Proceedings of the Fifth International Conference on e-learning: Cognitively Informed Technology. Manama, Kingdom of Bahrain	Presented	2015
32	K. Alissa	BP-XACML	ACISP conference	presented	2015
33	Rao Muzamal Liaqat, Ali Athar and Nazar Abbas Saqib, Jahan Zeb,	"Intelligent Agent Based System for Monitoring and Control of Hospital	In proceedings of International Conference on Information Science and Security (ICISS 2015).	Presented	2015



		Management System”			
34	Abid Hussain and Nazar Abbas Saqib	“Effects of Adaptable Channelization in Wi-Fi Networks	In proceedings of 2015 11th International Conference on Innovations in Information Technology (IIT’15), November 1-3, 2015, Dubai, UAE.	Presented	2015
35	Rida Nisar, Muazzam A. Khan, Nazar A. Saqib, Jahan Zeb,	Prediction and Recovery based Smart Target Tracking Mechanism for WSNs	In proceedings of 14th International Conference on Wireless Networks (ICWN’15)	Presented	2015
36	Humaira Anwer, Shumaila Anjum, Nazar A. Saqib	Robust Speaker Recognition for E-Commerce System	In proceedings of IEEE 2015 International Conference on Radar, Antenna, Microwave, Electronics and Telecommunications (ICRAMET 2015)	Presented	2015
37	Atta-ur-Rahman, Qureshi I.M.	Effectiveness of Modified Iterative Decoding Algorithm for Cubic Product Codes	International Conference on Hybrid Intelligent Systems	Poster	2014
38	Aamir Shafi, Aleem Akhtar, Ansar Javed, Bryan Carpenter	Teaching parallel programming using Java	Proceedings of the Workshop on Education for High-Performance Computing	Presented	2014
39	Abdul Jabbar Saeed Tipu, Ammar Hasan, Mohsan Jameel, Aamir Shafi	Parallelizing Matrix Exponential based Solver on Shared Memory Systems using Cilk	Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA)	Presented	2014
40	Rashad Ahmed, Dhiaa Musleh, Moataz Ahmed and Mohamed El-Attar	Use case prioritization using fuzzy logic system	Software Engineering and Service Science (ICSESS), 2014 5th IEEE International Conference	Presented	2014
41	Sunday Olusanya Olatunji, Ali Selamat,	Type-2 fuzzy logic based prediction of Object Oriented	The 13th International Conference on Intelligent Software Methodologies,	Presented	2014



		Software Maintainability, Tools, and Techniques (SOMET_14)		
42	Sunday Olusanya Olatunji, Ali Selamat	Type-2 fuzzy logic based prediction of Object Oriented Software Maintainability,	The 13th International Conference on Intelligent Software Methodologies, Tools, and Techniques (SOMET_14)	2014
43	Khadeejah Alhindi, Maslina Darus	Partial sum for certain subclass of meromorphic functions associated with the Polylogarithm Function	The 22nd Symposium on Mathematical Sciences (SKSM22): 24-26 November	Presented 2014
44	Alaa Alahmadi, Arash Joorabchi and Abdulhussain E. Mahdi	Arabic Text Classification using Bag-of-Concepts Representation	the 6th International Conference on Knowledge Discovery and Information Retrieval (KDIR 2014)	Presented 2014
45	Naya Nagy and Marius Nagy	Unconditionally Secure Quantum Bit Commitment Protocol based on Incomplete Information	Proceedings of the Third International Conference on the Theory and Practice of Natural Computing.	Presented 2014
46	Muhammad Usman and Nazar Abbas Saqib,	On the Application of IOT (Internet of Things) for Securing Industrial Threats	In Frontiers of Information Technology (FIT), 2014 12th International Conference on , vol., no., pp.37-40, 17-19 Dec. 2014	Presented 2014
47	Atta-ur-Rahman, Qureshi I.M.,	Optimum Resource Allocation in OFDM Systems using FRBS and Particle Swarm Optimization	Nature and Biologically Inspired Computing (NaBIC'13)	Poster 2013
48	Atta-ur-Rahman, Qureshi I.M., Salam M.H., Naseem M.T.	Efficient Link Adaptation in OFDM Systems using a Hybrid Intelligent Technique	13th International Conference on Hybrid Intelligent Systems (HIS'13)	Presented 2013
49	Atta-ur-Rahman,Zaidi D.N.,SalamM.H., JamilS.	User Behavior Classification using Fuzzy Rule Based System	13th International Conference on Hybrid Intelligent Systems (HIS'13)	Presented 2013
50	Atta-ur-Rahman, Qureshi I.M.,	An Intelligent Link Adaptation	5th International Conference of	Poster 2013



	Naseem M.T., Muzaffar M.Z.	Scheme for OFDM based Hyperlans	SoftComputing for Pattern Recognition		
51	Atta-ur-Rahman, Salam M.H., Jamil S.	Virtual Clinic: A Telemedicine Proposal for Remote Areas of Pakistan	3rd World Congress on Information and Communication Technologies	Poster	2013
52	Atta-ur-Rahman, Qureshi I.M., Salam M.H., Muzaffar M. Z.	Adaptive Communication using Soft-computing Techniques	5th International Conference of Soft-Computing for Pattern Recognition	Poster	2013
53	Naseem, M.T., Qureshi, I.M., Atta-ur-Rahman, Muzaffar, M.Z.	Chaos based Secure and Reversible Watermarking	International Conference on Modeling and Simulation	Presented	2013
54	Naseem, M.T., Qureshi, I.M., Atta-ur-Rahman, Muzaffar, M.Z.	Chaos based Invertible Authentication of Medical Images	IEEE Conference on Emerging Technologies	Presented	2013
55	Joanna Kolodziej, Magdalena Szmajduch, Tahir Maqsood, Sajjad Ahmad Madani, Nasro Min-Allah, Samee Ullah Khan	Energy-Aware Grid Scheduling of Independent Tasks and Highly Distributed Data.	FIT 2013: 211-216	IEEE	2013
56	Syed Abdullah Shah, Jannet Faiz, Maham Farooq, Aamir Shafi, Syed Akbar Mehdi	An architectural evaluation of SDN controllers	IEEE International Conference on Communications (ICC), 2013	Presented	2013
57	Ammar Ahmad Awan, Muhammad Bilal Amin, Shujaat Hussain, Aamir Shafi, Sungyoung Lee	An MPI-IO Compliant Java Based Parallel I/O Library	Symposium on 13th IEEE/ACM International Cluster, Cloud and Grid Computing (CCGrid), 2013	Poster	2013
58	Celina Rani George, Haridas Vijayan, B.M.Imran,	Glaucomatous Image Classification Using Wavelet Based Energy Signatures and Neural Networks	National Conference on Emerging Trends in VLSI and Embedded Systems (NCEVE 2013)	Celina Rani George	2013



59	T.M.Benazir, B.M.Imran,	Removal of High and Low Density Impulse Noise From Digital Images Using Non Linear Filter	International Conference on Signal Processing, Image Processing and Pattern Recognition (ICSIPR 2012)	T.M.Benazir	2013
60	Nadiya.P.V, B.M.Imran	Image Steganography in DWT Domain using Double-stegging with RSA Encryption	International Conference on Signal Processing, Image Processing and Pattern Recognition (ICSIPR 2012) in on 7 & 8 Feb 2013, Coimbatore, INDIA	Nadiya.P.V	2013
61	Najeena K.S, B.M.Imran	An Efficient Steganographic Technique Based on Chaotic Maps and Adpative PPM Embedding	International Conference on Signal Processing, Image Processing and Pattern Recognition (ICSIPR 2012) in on 7 & 8 Feb 2013, Coimbatore, INDIA	Najeena K.S	2013
62	Dhiaa Musleh, Salahadin Adam, and Muhammed Al-Mulhem	Efficient Multidimensional Simple Path Query Processing Algorithm for XML Data	Information Science and Applications (ICISA), 2013 International Conference on, pp. 1-5. IEEE, 2013.	Presented	2013
63	Marius Nagy and Naya Nagy	General Quantum Encryption Scheme Based on Quantum Memory	Proceedings of the Second International Conference on the Theory and Practice of Natural Computing.	Presented	2013
64	Marius Nagy and Naya Nagy	Quantum Secret Communication without an Encryption Key	Proceedings of the Second International Conference on the Theory and Practice of Natural Computing. TPNC 2013	Presented	2013
65	Khadeejah Alhindi, Maslina Darus	Fekete-Szegö inequalities for Sakaguchi type functions and fractional derivative operator	The 13th Colloquium UKM: 2-3 July	Presented	2013
66	Khadeejah Alhindi, Maslina Darus	Study on new class of convex functions	The 3rd International Conference of Mathematics (ICMS3):	Presented	2013



67	D. Düştegör, N.M. Felemban	Wireless sensor network based monitoring system for photovoltaic panels in extreme GCC climate conditions	7th IEEE GCC Conference	Presented	2013
68	M. Aljabri, H-W. Loidl, and P.W. Trinder	The Design and Implementation of GUMSMP: A Multilevel Parallel Haskell Implementation	IFL '13, the 25th Symposium on Implementation and Application of Functional Languages, Nijmegen, Netherlands — August 28 - 30, 2013	Presented paper	2013
69	Alaa Alahmadi, Arash Joorabchi and Abdulhussain E. Mahdi	Combining Bag-of-Words and Bag-of-Concepts representations for Arabic text classification	Irish Signals & Systems Conference 2014 and 2014 China-Ireland International Conference on Information and Communications Technologies	Poster	2013
70	Alaa Alahmadi, Arash Joorabchi and Abdulhussain E. Mahdi	A new text representation scheme combining bag-of-words and bag-of-concepts approaches for automatic text classification	the 7th IEEE GCC Conference and Exhibition (IEEE GCC 2013)	Presented	2013
71	Ubaid Ur Rehman, Waqas Ahmad Khan, Nazar Abbas Saqib, Muhammad Kaleem,	On Detection and Prevention of Clickjacking Attack for OSN	Frontiers of Information Technology, 11th IEEE International Conference on Frontiers of Information Technology, Islamabad, Pakistan, pp. 160-165, 2013	Presented	2013
72	Rizwan Rasul, Abdul Mutaal, Nazar Abbas Saqib, Mohammad Kaleem, ArslanShaukat, AasiaKhanum, Muazzam A. Khan,	FPGA Accelerated Computing Platform for MATLAB and C/C++	11th IEEE International Conference on Frontiers of Information Technology, Islamabad	Presented	2013
73	Atta-ur-Rahman, Qureshi I.M., Muzaffar M.Z., Naseem M.T.	A Fuzzy Rule Base Aided Rate Enhancement Scheme for	IEEE Conference on Emerging Technologies	Presented	2012



		OFDM Systems			
74	Atta-ur-Rahman, Qureshi I.M., Muzaffar M.Z., Naseem M.T.,	FRBS based Rate Enhancement Scheme for OFDM Systems using Product Codes	IEEE 15th International Multi-topic Conference	Presented	2012
75	Atta-ur-Rahman, Qureshi I.M., Naseem M.T. Muzaffar M.Z.,	A GA-FRBS based Rate Enhancement Scheme for OFDM based Hyperlans	10th IEEE International Conference on Frontiers of Information Technology	Presented	2012
76	Atta-ur-Rahman, Qureshi I.M., Naseem M.T., Muzaffar M.Z.,	Adaptive Resource Allocation for OFDM Systems using Fuzzy Rule Base System Water-filling Principle and Product Codes	12th International Conference on Intelligent Systems Design and Applications	Poster	2012
77	Atta-ur-Rahman, Qureshi I.M., Naseem M.T., Muzaffar M.Z.,	Performance of Modified Iterative Decoding Algorithm for Multilevel Codes	IEEE International conference on Computational aspects of Social Networks (CaSoN'12)	Poster	2012
78	Naseem M.T., Qureshi I.M., Atta-ur-Rahman,	Robust Watermarking for Medical Images Resistant to Geometric Attacks	IEEE 15th International Multi-topic Conference	Presented	2012
79	JingZheng Wu, Liping Ding, Yuqi Lin, Nasro Min-Allah, Yongji Wang:.	XenPump: A New Method to Mitigate Timing Channel in Cloud Computing.	IEEE CLOUD 2012: 678-685	IEEE	2012
80	Kashif Bilal, Samee Ullah Khan, Joanna Kolodziej, Limin Zhang, Khizar Hayat, Sajjad Ahmad Madani, Nasro Min-Allah, Lizhe Wang, Dan Chen	A Comparative Study Of Data Center Network Architectures	ECMS 2012: 526-532	IEEE	2012



81	Feng Xu, Nasro Min-Allah, Samee Ullah Khan, Nasir Ghani	Diverse routing in multi-domain optical networks with correlated and probabilistic multi-failures.	ICC 2012: 6247-6251	IEEE	2012
82	Ammar Ahmad Awan, Muhammad Sohaib Ayub, Aamir Shafi, Sungyoung Lee	Towards Efficient Support for Parallel I/O in Java HPC	13th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT), 2012	Presented	2012
83	Muhammad Bilal Amin, Aamir Shafi, Shujaat Hussain, Wajahat Ali Khan, Sungyoung Lee	High performance Java sockets (HPJS) for scientific health clouds	IEEE 14th International Conference on e-Health Networking, Applications and Services (Healthcom), 2012	Presented	2012
84	I Lee, Ting Angelina, Aamir Shafi, Charles E Leiserson	Memory-mapping support for reducer hyperobjects	Proceedings of the twenty-fourth annual ACM symposium on Parallelism in algorithms and architectures	Presented	2012
85	T.M.Benazir, B.M.Imran	Removal of High and Low Density Impulse Noise Using Modified Median Filter	International Conference on Recent Trend in Engineering & Technology (ICRTET 2012)	T.M.Benazir	2012
86	Najeena K.S, B.M.Imran	A Secure Secret Key Steganographic Algorithm Through Optimization of Pixel Pair Matching	International Conference on Recent Trend in Engineering & Technology (ICRTET 2012)	Najeena K.S	2012
87	Dhiaa Musleh, Salahadin Adam, and Muhammed Al-Mulhem	A New Multidimensional XML Storage Structure	4th International Conference on Computer Engineering and Technology (ICCET 2012), IPCSIT vol.40	Presented	2012
88	Sunday Olusanya Olatunji, Moustafa Elshafei, Yaser Ahmed Fallatah, Mohammad Saad	Comparison of Support Vector Machines and Artificial Neural Network on Saudi Arabia	International Conference on Business and Information Sapporo, Japan. (published conference proceedings)		2012



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89	N. M. Felemban, D. Düştegör	Towards Increased Usage of Solar Energy in Residential Areas: How Ready is the Society to that Transition in the GCC Countries?	3rd Annual Gulf Research Meeting	Presented	2012
90	N. M. Felemban, D. Düştegör	Usage of Solar Energy in Residential Areas: How Ready are Saudis for this Transition	3rd Scientific Conference for Higher Education Students in Saudi Arabia	Presented	2012
91	M. Aljabri, P. Trinder, and H-W.Loidl,	Overview of the Design of GUMSMP: a Multilevel Parallel Haskell Implementation.	IFL 2012, the 24th Symposium on Implementation and Application of Functional Languages	Presented paper	2012
92	M. Aljabri, P. Trinder, and H-W.Loidl,	Overview of the Design of GUMSMP: a Multilevel Parallel Haskell Implementation.	HIW2012, Haskell Implementors workshop, Copenhagen, Denmark, 14 September 2012.	Presented paper	2012
93	M. Aljabri, P. Trinder, and H-W.Loidl,	Overview of the Design of GUMSMP: a Multilevel Parallel Haskell Implementation.	Proceedings of the Saudi Scientific International Conference 2012, London, UK	Presented paper	2012
94	Naya Nagy, Marius Nagy and Paul Hodor	Cryptography and Information Protection in the Living World	Proceedings of the 2012 International Conference on Bioinformatics & Computational Biology	Presented	2012
95	K. Alissa	Authorization control on business process environment. Brisbane airport – case study	IATA PEMG06 Conference	presented	2012
96	K. Alissa	Integrating physical authorization with business	Airport of the future Conference	Presented	2012



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97	Zerafshan Gohar, Barkha Javed , Nazar Abbas Saqib ,	"Covert Channel Detection: A Survey Based Analysis"	9th IEEE International Conference on High Capacity Optical Networks and Enabling Technologies (HONET)	Presented	2012



Faculty published Books/Book chapters (2012 - 2017)



Details of Periodicals (Books, Book chapters etc.)

#	Authors	Title of the Book/Chapter	Publisher	Year
1	Atta-ur-Rahman	Applications of Hybrid Intelligent Systems in Adaptive Communication (Chapter)	IGI Global	2017
2	B.K. Tripathy, S. Das, Atta-ur-Rahman	Handbook of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms (Book)	IGI Global	2017
3	Naya Nagy, Marius Nagy and Selim G. Akl.	“A Less Known Side of Quantum Cryptography” Book chapter in Andrew Adamatzky (Ed.) “Emergent Computation”, pages 121-170.	Springer	2017
4	Wafaa Mukhtar Eltayeb Abuelyaman	Opportunities and Challenges of Big Data in Healthcare	IGI Global	2017
5	Atta-ur-Rahman	Knowledge Representation: A Semantic Network Approach (Chapter)	IGI Global	2016
6	Musleh, Dhiaa, Khaldoun Halawani, and Sabri Mahmoud	An Arabic Like Alphanumeric Character Recognition System and Method Using Automatic Fuzzy Modeling	U.S. Patent No. 9,454,706. Washington, U.S. Patent and Trademark Office	2016
7	Wajeeha Aslam, Muazzam A. Khan, M. Usman Akram, Nazar Abbas Saqib, Seungmin Rho	Energy Efficient Image Compression and Transmission in WSN, Emerging Innovations	Wireless Networks and Broadband Technologies, Chapter 4, pp. 67-78 DOI: 10.4018/978-1-4666-9941-0.ch00, IGI Publishers, 2016.	2016
8	Jingzheng Wu, Yanjun Wu, Bei Guan, Yuqi Lin, Samee U. Khan, Nasro Min-Allah, Yongji Wang	C2Hunter: Detection and Mitigation of Covert Channels in Data Centers,	Albert Y. Zomaya and Samee Ullah Khan, Eds., Handbook on Data Centers: 961-996, Springer, 2015.	2015



9	M. Aljabri, H-W. Loidl, and P.W. Trinder	Assessing the Scalability Issues on Multi-Core NUMA Machines	Imperial College Press, London.	2015
10	M. Aljabri, H-W. Loidl, and P.W. Trinder	Balancing Shared and Distributed Heaps on NUMA Architectures	Springer International Publishing	2015
11	Sunday Olusanya Olatunji, Ali Selamat,	Type-2 fuzzy logic based prediction Model of Object Oriented Software' Maintainability)	Springer LNCS/LNAI book series)	2014
12	M. Aljabri, H-W. Loidl, and P.W. Trinder	The Design and Implementation of GUMSMP: A Multilevel Parallel Haskell Implementation	ACM	2014
13	P. Lindberg, J. Leingang, D. Lysaker, K. Bilal, S. U. Khan, P. Bouvry, N. Ghani, N. Min-Allah, and J. Li	Comparison and Analysis of Greedy Energy-Efficient Scheduling Algorithms for Computational Grids, in Energy Aware Distributed Computing Systems	John Wiley & Sons, Hoboken, NJ, USA, 2012.	2012
14	B.M.Imran, M.M.Sufyan Beg,	Towards Perception based Image Retrieval	Part III. LNICST, vol. 86, pp. 280–289. Springer, Heidelberg	2012
15	B.M.Imran, M.M.Sufyan Beg,	Estimation of f-Similarity in f-Triangles using FIS	Part III. LNICST, vol. 86, pp. 290–299. Springer, Heidelberg	2012
16	B.M.Imran, M.M.Sufyan Beg,	Fuzzy Identification of Geometric Shapes	Part III. LNICST, vol. 86, pp. 269–279. Springer, Heidelberg	2012
17	Ali Selamat, S. O. Olatunji, Abdul Azeez Abdul Raheem	Modeling PVT Properties of Crude Oil Systems Based on Type-2 Fuzzy Logic Approach and Sensitivity Based Linear Learning Method, Computational Collective Intelligence.	Technologies and Applications Lecture Notes in Computer Science Volume 7653, 2012, pp 145-155, Springer	2012