

Shoab Ahmed Khan

Adjunct Faculty

College of Electrical & Mechanical Engineering

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7

About

Dr. Shoab Ahmed Khan is working as Adjunct Faculty in the College of Electrical & Mechanical Engineering. Dr. Shoab Ahmed Khan has a PhD in Phd In Electrical And Computer Engineering. Dr. Shoab Ahmed Khan has published 247 research articles & conference papers having a citation count of 1749, carried out 11 projects and filed 0 intellectual property.

Qualifications

PhD in Phd In Electrical And Computer Engineering Georgia Institute of Technology , Pakistan	1992 - 1996
MS in Dsp, Vlsi Georgia Institute of Technology , Pakistan	1991 - 1992
BS in Avionics Engineering College of Aeronautics , Pakistan	1985 - 1989

Experience

Adjunct Faculty College of Electrical & Mechanical Engineering	2022 - 2022
Adjunct Faculty College of Electrical & Mechanical Engineering	2020 - 2022
Defence Faculty College of Electrical & Mechanical Engineering	2020 - 2020
Defence Faculty College of Electrical & Mechanical Engineering	2006 - 2020
Professor College of E&ME, NUST , DC&SE CE&ME, NUST Peshawar Road Rawalpindi	1997 - 2020

Research Projects

National Projects

Industry 4.0	2019
Funding Agency: IGNITE	
Amount: PKR 10,000.00	
Status: Completed	
VAP (Virtually Accessible Physical) IoT Lab	2019
Funding Agency: HEC	
Amount: PKR 15,978,000.00	
Status: Completed	
Scene Analysis and Video Tagging using Surveillance Camera.	2018
Funding Agency: IGNITE	
Amount: PKR 80,000.00	
Status: Completed	
IoT Based Smart Solution.	2018
Funding Agency: IGNITE	
Amount: PKR 70,000.00	
Status: Completed	
Wavelet Based Real Time Ventricular Arrhythmia Detection and Classification	2007
Funding Agency: NUST	
Amount: PKR 210,000.00	
Status: Completed	
Software Defined Radio Implementation on GNU Radio	2007
Funding Agency: NUST	
Amount: PKR 100,000.00	
Status: Completed	
Artillery Tactical Command and Reporting System (ATCARS)	2007
Funding Agency: NUST	
Amount: PKR 232,000.00	
Status: Completed	
Software Defined Radio Based Frequency Hopped Spread Spectrum Transceiver	2007
Funding Agency: HEC	
Amount: PKR 3,483,000.00	
Status: Completed	
BIONIC Ear (Development of Cochlear Implant)	2007
Funding Agency: NUST	
Amount: PKR 818,000.00	
Status: Completed	
Remote Operated Weapon System (ROWS)	2018
Funding Agency: NUST	
Amount: PKR 300,000.00	
Status: Completed	
Management Information and Decision Support System for Monitoring and Evaluation of HEC Funded Projects	2018
Funding Agency: HEC	
Amount: PKR 5,992,317.00	
Status: Completed	

International Projects

Research Articles

AI-CADS: An Artificial Intelligence based framework for automatic early detection and severity evaluation of coronary artery disease	2025
<i>Muhammad Sajid Ali Hassan Dilshad Ahmed Khan Shoab Ahmed Khan Asim Dilawar Bakhshi Sayed Tanveer Abbas Gilani Muhammad Usman Akram Mustansar Ali Ghazanfar</i>	

<i>Biomedical Signal Processing and Control</i> , Volume:106, Article Number: 107705, Pages:10	
Impact Factor: 4.9 Quartile: 1	
DOI: https://doi.org/10.1016/j.bspc.2025.107705	
AI-CADR: Artificial Intelligence Based Risk Stratification of Coronary Artery Disease using Novel Non-invasive Biomarkers	2024
<i>Muhammad Sajid Ali Hassan Dilshad Ahmed Khan Shoab Ahmed Khan Asim Dilawar Bakhshi Muhammad Usman Akram Mishal Babar Farhan Hussain Wadood Abdul</i>	
<i>IEEE Journal of Biomedical and Health Informatics</i> , Volume:28, Issue:12, Page(s):7543-7552	
Impact Factor: 6.700 Quartile: 1 Citations: 3	
DOI: https://doi.org/10.1109/JBHI.2024.3453911	
A novel data driven anticipatory framework for the communicable syndrome	2024
<i>Tahira Sadaf Usman Qamar Shoab Ahmed Khan Sameera Amjad</i>	
<i>Engineering Applications of Artificial Intelligence</i> , Volume 132, Article Number 107929	
Impact Factor: 7.500 Quartile: 1 Citations: 1	
DOI: https://doi.org/10.1016/j.engappai.2024.107929	
An IoT-enabled real-time dynamic scheduler for Flexible Job Shop Scheduling (FJSS) in an Industry 4.0 Based Manufacturing Execution System (MES 4.0)	2024
<i>Anum Tariq Shoab Ahmed Khan Wasi Haider Butt Asim Javaid Tehmina Shehryar</i>	
<i>IEEE Access</i> , Volume 12, Pages 49653-49666	
Impact Factor: 3.4 Quartile: 2 Citations: 10	
DOI: 10.1109/ACCESS.2024.3384252	
A Knowledge Base Technique for Detecting Multiple High-Speed Serial Interface Synchronization Errors in Multiprocessor-Based Real-Time Embedded Systems	2022
<i>Sabeen Masood Shoab Ahmed Khan Ali Hassan Fatima Khaliq</i>	
<i>Electronics</i> , Volume:11, Issue:18, Article Number 2945	
Impact Factor: 2.690 Quartile: 3	
DOI: doi.org/10.3390/electronics11182945	
Industry 4.0 Based Business Process Re-Engineering Framework for Manufacturing Industry Setup Incorporating Evolutionary Multi-Objective Optimization	2022
<i>Anum Tariq Shoab Ahmed Khan</i>	
<i>IEICE Transactions on Information and Systems</i> , Volume E105D, Issue 7, Pages 1283-1295	
Impact Factor: 0.700 Quartile: 4 Citations: 3	
DOI: https://doi.org/10.1587/transinf.2022EDP7021	
Knowledge and Data-Driven Framework for Designing a Computerized Physician Order Entry System	2022
<i>Sidra Ejaz Brig. Shoab Ahmed Khan Farhan Hussain</i>	
<i>IEEE Access</i> , Volume 10, Pages 40953-40966	
Impact Factor: 3.367 Quartile: 2 Citations: 6	
DOI: 10.1109/ACCESS.2022.3167517	
A Novel Data-Driven Adaptive Technique to Generate a Physician Visiting Schedule for Better Patient Experience	2022
<i>Saria Safdar Shoab Ahmed Khan Arsalan Shaukat</i>	
<i>IEEE Access</i> , Volume 10, Pages 3935-3948	
Impact Factor: 3.367 Quartile: 2 Citations: 2	
DOI: 10.1109/ACCESS.2021.3138460	
A Decision Support Framework for National Crop Production Planning	2021
<i>Nida Rasheed Shoab Ahmed Khan Ali Hassan Saria Safdar</i>	
<i>IEEE Access</i> , Volume 9, Pages 133402-133415	
Impact Factor: 3.367 Quartile: 2 Citations: 13	
DOI: 10.1109/ACCESS.2021.3115801	
Early MCI-to-AD Conversion Prediction Using Future Value Forecasting of Multimodal Features	2021
<i>Sidra Minhas Aasia Khanum Atif Alvi Farhan Riaz Shoab Ahmed Khan Fawaz Alsolami Muazzam Khattak</i>	
<i>Computational Intelligence and Neuroscience</i> , Volume 2021, Article ID 6628036, 12 pages	
Impact Factor: 3.120 Quartile: 2 Citations: 13	
DOI: https://doi.org/10.1155/2021/6628036	
Need-Based and Optimized Health Insurance Package Using Clustering Algorithm	2021

Irum Matloob Brig. Shoab Ahmed Khan Farhan Hussain Wasi Haider Butt Rukaiya Rukaiya Fatima Khaliq
Applied Sciences , Volume 11, Issue 18, Article No. 8478

Impact Factor: 2.679 | **Quartile:** 2 | **Citations:** 7
DOI: 10.3390/app11188478

A novel framework for testing high-speed serial interfaces in multiprocessor based real-time embedded system

2021

Sabeen Masood Shoab Ahmed Khan Ali Hassan Urooj Fatima
Applied Sciences , Volume 11, Issue 16, Article Number 7465

Impact Factor: 2.838 | **Quartile:** 2 | **Citations:** 3
DOI: <https://doi.org/10.3390/app11167465>

An incremental learning approach to automatically recognize pulmonary diseases from the multi-vendor chest radiographs

2021

Mehreen Sirshar Taimur Hassan Shoab Ahmad Khan Muhammad Usman Akram
Computers in Biology and Medicine, Volume 134, Article Number 104435

Impact Factor: 6.698 | **Quartile:** 1 | **Citations:** 42
DOI: <https://doi.org/10.1016/j.combiomed.2021.104435>

Multiple Disease Hotspot Mining for Public Health Informatics in Resource Starved Settings: Study of Communicable Diseases in Punjab, Pakistan

2021

Shoab Ahmed Khan Fatima Khaliq
IEEE Access , Volume 9, Pages 89989-89998

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 2
DOI: <https://doi.org/10.1109/ACCESS.2021.3091655>

A Fuzzy Logic-Based Framework for Mapping Crime Data on Established Sociological Hypothesis for Societal Disorder Identification and Prevention

2021

Sobia Khalid Shoab Ahmed Khan Syed Qasim Ifzal
IEEE Access , Volume 9, Pages 80197-80207

Impact Factor: 3.476 | **Quartile:** 2
DOI: 10.1109/ACCESS.2017.DOI

Capturing the real customer experience based on the parameters in the call detail records

2021

Nusratullah Khan Muhammad Usman Akram Asadullah Shah Norah Saleh Alghamdi Shoab Ahmed Khan
Multimedia Tools and Applications , Pages 1-23

Impact Factor: 2.757 | **Quartile:** 2 | **Citations:** 1
DOI: <https://doi.org/10.1007/s11042-021-10897-x>

A Stochastic Distribution Based Methodology to Estimate Control Phase Time for Software-Defined Radios in Tactical MANETs

2021

Rukaiya Rukaiya Muazzam A. Khan Khattak Irum Matloob Irum Nosheen Shoab Ahmed Khan Muhammad Umar Farooq
IEEE Access , Volume 9, Page 71687-71698

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 7
DOI: 10.1109/ACCESS.2021.3079173

Adaptive Multi-Input Medium Access Control (AMI-MAC) Design using Physical Layer Cognition for Tactical SDR Networks

2021

Muhammad Zeeshan Kashif Shahzad Muhammad Umar Farooq Shoab Ahmad Khan
IEEE Access , Vol. 9, pp. 58364-58377

Impact Factor: 3.745 | **Quartile:** 2 | **Citations:** 7
DOI: 10.1109/ACCESS.2021.3073030

AirMatch: An automated mosaicing system with video preprocessing engine for multiple aerial feeds

2021

Nida Rasheed Shoab Ahmad Khan Waqar Shahid Qureshi Manshoor A Naqvi Eisa Alanzi
IEICE Transactions on Information and Systems, Volume E104.D, Issue 4, Pages 490-499

Impact Factor: 0.695 | **Quartile:** 4 | **Citations:** 2
DOI: <https://doi.org/10.1587/transinf.2020EDK0003>

A Novel Self-Forming Virtual Sub-Nets Based Cross-Layer MAC Protocol for Multihop Tactical Network

2021

Rukaiya Rukaiya Farhan Hussain Shoab Ahmed Khan Muhammad Umar Farooq
Applied Sciences , Volume 11(6), Article Number 2470

Impact Factor: 2.838 | **Quartile:** 2 | **Citations:** 3
DOI: 10.3390/app11062470

CFFD-MAC: A Hybrid MAC for Collision Free Full-Duplex Communication in Wireless Ad-Hoc Networks <i>Rukaiya Rukaiya Farhan Hussain Adnan Akhunzada Shoab Ahmed Khan Muhammad Umar Farooq</i> <i>IEEE Access</i> , Volume 9, Page 35584-35598 Impact Factor: 3.476 Quartile: 2 Citations: 15 DOI: 10.1109/ACCESS.2021.3061943	2021
Genetic Algorithm Based Automatic Out-Patient Experience Management System (GAPEM) Using RFIDs and Sensors <i>Saria Safdar Shoab Ahmed Khan Arsalan Shaukat Muhammad Usman Akram</i> <i>IEEE Access</i> , Volume 9, Pages 8961-8976 Impact Factor: 3.367 Quartile: 2 Citations: 10 DOI: 10.1109/ACCESS.2020.3046839	2021
Extraction of Retinal Layers Through Convolution Neural Network (CNN) in an OCT Image for Glaucoma Diagnosis <i>Hina Raja Muhammad Usman Akram Arsalan Shaukat Norah Alghamdi Sajid Gul Khawaja Noman Nazir Shoab Ahmad Khan</i> <i>Journal of Digital Imaging</i> , Volume 33, Pages 1428-1442 Impact Factor: 4.056 Quartile: 1 Citations: 39 DOI: 10.1007/s10278-020-00383-5	2020
Spatio-temporal investigations of dengue fever in Pakistan through an HL7 based public health framework for hotspot analysis <i>Fatima Khaliq Rubina Shaheen Shoab Ahmed Khan</i> <i>IEEE Access</i> , Volume 8, Pages 199980-199994 Impact Factor: 3.367 Quartile: 2 Citations: 5 DOI: 10.1109/ACCESS.2020.3027234	2020
Sequence Mining and Prediction-Based Healthcare Fraud Detection Methodology <i>Irum Matloob Shoab Ahmed Khan Habib Ur Rahman</i> <i>IEEE Access</i> , Volume 8, Pages 143256-143273 Impact Factor: 3.367 Quartile: 2 Citations: 28 DOI: DOI: 10.1109/ACCESS.2020.3013962	2020
Medical Health Benefit Management System for Real-Time Notification of Fraud Using Historical Medical Records <i>Irum Matloob Shoab Ahmad Khan Habib-ur-Rahman Farhan Hussain</i> <i>Applied Sciences</i> , Volume 10(15), Article Number 26 Impact Factor: 2.679 Quartile: 2 Citations: 10 DOI: https://doi.org/10.3390/app10155144	2020
Security Requirements Engineering Framework with BPMN 2.0.2 Extension Model for Development of Information Systems <i>Saima Zareen Adeel Akram Shoab Ahmad Khan</i> <i>Applied Sciences</i> , Volume 10(14), Article Number 498 Impact Factor: 2.679 Quartile: 2 Citations: 29 DOI: https://doi.org/10.3390/app10144981	2020
An Integrated Approach for Spatio-Temporal Cholera Disease Hotspot Relation Mining for Public Health Management in Punjab, Pakistan <i>Fatima Khaliq Shoab Ahmad Khan Wasi Haider Butt Irum Matloob</i> <i>International Journal of Environmental Research and Public Health</i> , Volume 17, Issue 11, Article Number 3763 Impact Factor: 3.390 Quartile: 1 Citations: 8 DOI: https://doi.org/10.3390/ijerph17113763	2020
Self-Forming Multiple Sub-Nets Based Protocol for Tactical Networks Consisting of SDRs <i>Rukaiya Shoab Amad Khan</i> <i>IEEE Access</i> , Volume: 8, Pages 88042-88059 Impact Factor: 3.367 Quartile: 2 Citations: 7 DOI: DOI: 10.1109/ACCESS.2020.2992599	2020
Finding the Unique Permutation Matrix for Reverse Order Kronecker Product Intuitively <i>Sajid Gul Khawaja Muhammad G. Ali Muhammad G. Ali Shoab Amad Khan</i> <i>International Journal of Computer Theory and Engineering</i> , Vol. 11, No. 6, Pages 107-111 Impact Factor: -	2019

DOI: 10.7763/IJCTE.2019.V11.1252

Multiprocessor architecture for real-time applications using mean shift clustering 2019

Amna Tehreem Sajid Gul Khawaja Asad Mansoor Khan Muhammad Usman Akram Shoab A. Khan
Journal of Real-Time Image Processing, Volume 16, Pages: 2233-2246

Impact Factor: 1.968 | **Quartile:** 3 | **Citations:** 4

DOI: 10.1007/s11554-017-0733-0

A novel hybrid narrowband/wideband networking waveform physical layer for multiuser multiband transmission and reception in software defined radio 2019

Kashif Shahzad Sumbul Gulzar Muhammad Zeeshan Shoab Ahmed Khan
Physical Communication, Volume: 36 Article Number: UNSP 100790

Impact Factor: 1.594 | **Quartile:** 3 | **Citations:** 7

DOI: 10.1016/j.phycom.2019.100790

Key individual identification using dimensional relevance in the stratum of networks 2019

Fozia Noor Muhammad Usman Akram Asadullah Shah Shoab Ahmad Khan
Journal of Intelligent & Fuzzy Systems, Volume 37, Issue 2, Pages 2153-2167

Impact Factor: 1.851 | **Quartile:** 3

DOI: 10.3233/JIFS-181517

A Framework for Public Health Monitoring, Analytics and Research 2019

Fatima Khaliq Irum Nosheen Shoab Ahmad Khan
IEEE Access, Volume: 7, Pages: 101309-101326

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 23

DOI: DOI:10.1109/ACCESS.2019.2930730

A Cross-Layer Design for a Multihop, Self-Healing, and Self-Forming Tactical Network 2019

Irum Nosheen Umar Ali Irum Nosheen Shoab Ahmad Khan Umar Ali
Wireless Communications and Mobile Computing, Article Number: 1523906, Pages 1-17

Impact Factor: 1.819 | **Quartile:** 3 | **Citations:** 7

DOI: 10.1155/2019/1523906

A Mathematical Model for Cross Layer Protocol Optimizing Performance of Software-Defined Radios in Tactical Networks 2019

IRUM NOSHEEN SHOAB A. KHAN FATIMA KHALIQUE
IEEE Access, Volume 7, Pages 20520-20530

Impact Factor: 3.745 | **Quartile:** 1 | **Citations:** 16

DOI: 10.1109/ACCESS.2019.2896363

CPS-based fully automatic cardiac left ventricle and left atrium segmentation in 3D MRI 2019

Ibtihaj Ahmad Farhan Hussain Shoab Ahmed Khan Usman Akram Gwanggil Jeon
Journal of Intelligent & Fuzzy Systems, Volume 36, Issue 5, Pages 4153-4164

Impact Factor: 1.851 | **Quartile:** 3 | **Citations:** 5

DOI: 10.3233/JIFS-169974

A Parallel Architecture for the Partitioning around Medoids (PAM) Algorithm for Scalable Multi-Core Processor Implementation with Applications in Healthcare 2018

Hassan Mushtaq Sajid Gul Khawaja Muhammad Usman Akram Amanullah Yasin Muhammad Muzammal Shehzad Khalid Shoab Ahmad Khan
Sensors, NULL

Impact Factor: 3.031 | **Quartile:** 1 | **Citations:** 9

DOI: <https://doi.org/10.3390/s18124129>

Multilayered Deep Structure Tensor Delaunay Triangulation and Morphing Based Automated Diagnosis and 3D Presentation of Human Macula 2018

Taimur Hassan M. Usman Akram Mahmood Akhtar Shoab Ahmad Khan Ubaidullah Yasin
Journal of Medical Systems, NULL

Impact Factor: 2.415 | **Quartile:** 2 | **Citations:** 17

DOI: <https://doi.org/10.1007/s10916-018-1078-3>

A methodological review of 3D reconstruction techniques in tomographic imaging 2018

Imran Shafi Usman Khan AmanUllah Yasin Muhammad Abid Shoab Ahmed Khan
Journal of Medical Systems, Journal of Medical Systems Volume: 42 Issue: 10

Impact Factor: 2.415 | **Quartile:** 2 | **Citations:** 44

DOI: 10.1007/s10916-018-1042-2

Decision support system for detection of hypertensive retinopathy using arteriovenous ratio <i>Shahzad Akbar Muhammad Usman Akram Muhammad Sharif Anam Tariq Shoab A. Khan</i> <i>Artificial Intelligence In Medicine</i> , NULL Impact Factor: 3.574 Quartile: 1 Citations: 77 DOI: https://doi.org/10.1016/j.artmed.2018.06.004	2018
Predicting Progression From Mild Cognitive Impairment to Alzheimer?s Disease Using Autoregressive Modelling of Longitudinal and Multimodal Biomarkers <i>Sidra Minhas Aasia Khanum Farhan Riaz Shoab A. Khan Atif Alvi</i> <i>IEEE Journal of Biomedical and Health Informatics</i> , Volume: 22, Issue: 3, Pages 818-825 Impact Factor: 4.217 Quartile: 1 Citations: 44 DOI: 10.1109/JBHI.2017.2703918	2018
Deployment of social nets in multilayer model to identify key individuals using majority voting <i>Fozia Noor Asadullah Shah Mohammad Usman Akram Shoab Ahmad Khan</i> <i>KNOWLEDGE AND INFORMATION SYSTEMS</i> , NULL Impact Factor: 2.397 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1007/s10115-018-1187-9	2018
Trajectory based vehicle counting and anomalous event visualization in smart cities <i>Fozia Mehboob Muhammad Abbas Richard Jiang Abdul Rauf Shoab Ahmed Khan Saad Rehman</i> <i>Cluster Computing-The Journal of Networks Software Tools and Applications</i> , Volume: 21 Issue: 1 Pages: 443-452 Special Issue: SI Impact Factor: 1.851 Quartile: 2 Citations: 13 DOI: 10.1007/s10586-017-0885-5	2018
A Nonparametric Approach for Mild Cognitive Impairment to AD Conversion Prediction: Results on Longitudinal Data <i>Sidran Minhas Aasia Khanum Farhan Riaz Atif Alvi Shoab A Khan</i> <i>IEEE Journal of Biomedical and Health Informatics</i> , Volume: 21, Issue: 5, Pages: 1403-1410 Impact Factor: 3.85 Quartile: 1 Citations: 33 DOI: 10.1109/JBHI.2016.2608998	2017
Glyph-based video visualization on Google Map for surveillance in smart cities <i>Fozia Mehboob Muhammad Abbas Shoab A. Khan Richard Jiang Ahmed Bouridane Saad Rehman</i> <i>EURASIP Journal on Image and Video Processing</i> , Article Number: 28 Impact Factor: 1.737 Quartile: 2 Citations: 15 DOI: 10.1186/s13640-017-0175-4	2017
A cross layer error control scheme for efficient WLAN multimedia streaming <i>Muhammad Usman Akram Saima Shaheen Aasia Khanum Shoab Ahmed Khan Muhammad Younas Javed</i> <i>Multimedia Tools and Applications</i> , Multimedia Tools and Applications, Volume 76, Issue 5, Pages 6663-6682, 1 March 2017 Impact Factor: 1.541 Quartile: 2 Citations: 2 DOI: 10.1007/s11042-016-3308-3	2017
Congestion analysis of pilgrims in Hajj and Umrah congregation using block matching and optical flow <i>Sumaiyya Farooq Shoab A Khan M Usman Akram</i> <i>Journal of Physics: Conference Series</i> , Volume 787, 012003 Impact Factor: 0 DOI: 10.1088/1742-6596/787/1/012003	2017
Area and energy efficient CORDIC accelerator for embedded processor datapaths <i>Abdul Rehman Buzdar Ligu Sun Shoab Ahmed Khan Abdullah Buzdar</i> <i>Informacije MIDEM - Journal of Microelectronics, Electronic Components and Materials</i> , Volume 46, Issue 4, Pages 197-208 Impact Factor: 0.478 Quartile: 4 DOI: -	2016
Evaluating the significance of error checksums for wireless video streaming <i>Saima Shaheen Aasia Khanum M. Usman Akram Shoab Ahmed Khan SangHyun Seo M. Younas Javed</i> <i>Multimedia Tools and Applications</i> , Volume: 75 Issue: 22 Pages: 14759-14781 Impact Factor: 1.530 Quartile: 2 Citations: 1 DOI: 10.1007/s11042-015-2636-z	2016
Network-on-Chip based MPSoC architecture for k-mean clustering algorithm <i>Sajid Gul Khawaja Muhammad Usman Akram Shoab Ahmed Khan Arsalan Shaukat Saad Rehman</i> <i>Microprocessors and Microsystems</i> , Volume 46, Part B, Pages 1-10	2016

Impact Factor: 1.025 Quartile: 3 Citations: 5 DOI: 10.1016/j.micpro.2016.08.006	
A Novel Fuzzy Inference-Based Technique for Dynamic Link Adaptation in SDR Wideband Waveform <i>Muhammad Zeeshan Shoab Ahmed Khan</i> <i>IEEE Transactions on Communications</i> , Volume 64, Issue 6, Pages 2602-2609 Impact Factor: 4.058 Quartile: 1 Citations: 12 DOI: 10.1109/TCOMM.2016.2560164	2016
Satellite-based land use mapping: comparative analysis of Landsat-8, Advanced Land Imager, and big data Hyperion imagery <i>Wasim Pervaiz Vali Uddin Shoab Ahmed Khan Junaid Aziz Khan</i> <i>Journal of Applied Remote Sensing</i> , Volume: 10, Article Number: 026004 Impact Factor: 1.107 Quartile: 3 Citations: 32 DOI: 10.1117/1.JRS.10.026004	2016
Software Architecture Design on National Level for Vaccination Planning and Dispensing System <i>Alishba Siab Khan Shoab Ahmad Khan</i> <i>American Scientific Research Journal for Engineering, Technology, and Sciences</i> , Volume 26, Issue No 3, Pages 304-316 Impact Factor: 0 DOI: -	2016
Voice Morphing Based on Spectral Features and Prosodic Modification <i>A. Qavi Shoab Ahmed Khan K. Basir</i> <i>International Journal of Signal Processing Systems</i> , Vol. 3, Issue No. 2, Pages 123-127 Impact Factor: 0 DOI: 10.12720/ijsp.3.2.123-127	2015
A novel algorithm for link adaptation using fuzzy rule based system for wideband networking waveform of SDR <i>Muhammad Zeeshan Shoab Ahmad Khan</i> <i>AEU - International Journal of Electronics and Communications</i> , Volume 69, Issue 9, Pages 1366-1373 Impact Factor: 0.786 Quartile: 3 Citations: 6 DOI: doi:10.1016/j.aeue.2015.06.001	2015
A Novel Algorithm for Burst Detection in Wideband Networking Waveform of Software Defined Radio <i>Shoab Ahmed Khan Muhammad Zeeshan</i> <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , Online ISSN:1745-1337, Print ISSN:0916-8508, Vol.E98-A, No.6, Pages 1225-1233, Jun 2015, Volume: E98A Issue: 6 Pages: 1225-1233 Impact Factor: 0.236 Quartile: 4 Citations: 2 DOI: 10.1587/transfun.E98.A.1225	2015
Designing Area Optimized Application-Specific Network-On-Chip Architectures while Providing Hard QoS Guarantees <i>Sajid Gul Khawaja Muhammad Usman Akram Mian Hamza Mushtaq Shoab A. Khan Habib ullah Jamal</i> <i>PLoS ONE</i> , Volume 10, Issue 4, Article Number e0125230 Impact Factor: 3.057 Quartile: 1 Citations: 6 DOI: 10.1371/journal.pone.0125230	2015
A Two Stage Algorithm for Carrier Frequency Offset Recovery with DSP Implementation on SDR Platform <i>Shoab Ahmad Khan Ibtasam Haq Muhammad Zeeshan</i> <i>IEICE Transactions on Communications</i> , Volume E97-B, No.11, Pages 2449-2458 Impact Factor: 0.227 Quartile: 4 Citations: 7 DOI: 10.1587/transcom.E97.B.2449	2014
Covert Network Analysis for Key Player Detection and Event Prediction using a Hybrid Classifier <i>Wasi Haider Butt M. Usman Akram Shoab Ahmed Khan Muhammad Younas Javed</i> <i>Scientific World Journal</i> , Volume 2014, Article ID 615431, 13 pages Impact Factor: 0 Citations: 5 DOI: 10.1155/2014/615431	2014
Automated detection of exudates and macula for grading of diabetic macular edema <i>M. Usman Akram Anam Tariq Shoab A. Khan M. Younus Javed</i> <i>Computer Methods and Programs in Biomedicine</i> , Volume 114, Issue 2, Pages 141-152	2014

Impact Factor: 1.897 Quartile: 1 Citations: 116 DOI: 10.1016/j.cmpb.2014.01.010	
Detection and classification of retinal lesions for grading of diabetic retinopathy <i>Muhammad Usman Akram Shehzad Khalid Anam Tariq Shoab Ahmed Khan Farooque Azam</i> <i>Computers in Biology and Medicine</i> , Volume 45, Pages 161-171 Impact Factor: 1.24 Quartile: 3 Citations: 281 DOI: 10.1016/j.combiomed.2013.11.014	2014
Gap Analysis in Software Engineering Process Adoption in Implementing High End Embedded System Design <i>Umm-e-Habiba Shoab Ahmad Khan Muhammad Younus Javed</i> <i>Journal of Applied Environmental and Biological Sciences</i> , Vol 4, Issue 7S, Pages 495-503 Impact Factor: 0 DOI: -	2014
Automated Detection and Grading of Diabetic Maculopathy in Digital Retinal Images <i>Anam Tariq M. Usman Akram Arsalan Shaukat Shoab A. Khan</i> <i>Journal of Digital Imaging</i> , Volume: 26 Issue: 4 Pages: 803-812 Impact Factor: 1.2 Quartile: 3 Citations: 62 DOI: 10.1007/s10278-012-9549-4	2013
Employing Multiple Unmanned Aerial Vehicles for Co-Operative Path Planning <i>Durdana Habib Habibullah Jamal Shoab A. Khan</i> <i>International Journal of Advanced Robotic Systems</i> , Volume: 10 Article Number: 235 Impact Factor: 0.497 Quartile: 4 Citations: 34 DOI: 10.5772/56286	2013
Multilayered thresholding-based blood vessel segmentation for screening of diabetic retinopathy <i>M. Usman Akram Shoab A. Khan</i> <i>Engineering with Computers</i> , Volume: 29 Issue: 2 Pages: 165-173 Impact Factor: 1.088 Quartile: 2 Citations: 127 DOI: 10.1007/s00366-011-0253-7	2013
Robust Sampling Clock Recovery Algorithm for wideband networking waveform of SDR <i>Shoab Ahmad Khan Muhammad Zeeshan</i> <i>International Journal of Communication Networks and Information Security</i> , Volume 5, No. 1, Pages 10-18 Impact Factor: N/A DOI: -	2013
Hidden Members and Key Players Detection in Covert Networks Using Multiple Heterogeneous Layers <i>Wasi Haider Butt Usman Qamar Shoab A. Khan</i> <i>Journal of Industrial and Intelligent Information</i> , Vol. 2, Issue No. 2, Pages 142-146 Impact Factor: 0 DOI: 10.12720/jiii.2.2.142-146	2013
Performance Oriented Design Perspectives of Run-Time Reconfigurable Computing Systems <i>Muhammad Aqeel Iqbal Shoab A. Khan</i> <i>Middle-East Journal of Scientific Research</i> , Vol 28, Issue No 8, Pages 1051-1060 Impact Factor: 0 DOI: -	2013
Identification and classification of microaneurysms for early detection of diabetic retinopathy <i>M. Usman Akram Shehzad Khalid Shoab A. Khan</i> <i>Pattern Recognition</i> , Volume 46, Issue 1, Pages 107-116 Impact Factor: 2.584 Quartile: 1 Citations: 278 DOI: 10.1016/j.patcog.2012.07.002	2013
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