

Muhammad Khuram Shahzad

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About

Dr. Muhammad Khuram Shahzad is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Muhammad Khuram Shahzad has a PhD in Computer Engineering. Dr. Muhammad Khuram Shahzad has published 38 research articles & conference papers having a citation count of 543, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Computer Engineering Sung Kyun Kwan University , Korea	2013 - 2016
MS in Information Technology NUST, Islamabad , Pakistan	2004 - 2007
BS in Information Technology University of Lahore , Pakistan	1999 - 2004

Experience

Associate Professor School of Electrical Engineering and Computer Science	2022- Present
Assistant Professor School of Electrical Engineering and Computer Science	2019 - 2022
Associate Professor NUST University , H-12, Islamabad	2022 - 2023
Assistant Professor NUST University , H-12 Islamabad	2019 - 2022
Assistant Professor Keimyung University , Daegu, S. Korea	2017 - 2018
Post doctorate Sungkyunkwan University , Suwon, South Korea	2016 - 2017
Lab Supervisor NUST University , H-12 Islamabad	2008 - 2008
Research Assistant NUST University (NIIT) , H-12 Islamabad	2006 - 2007

Research Articles

Improved Urdu-English Neural Machine Translation with a fully Convolutional Neural Network Encoder Huma Israr Muhammad Khuram Shahzad Shahid Anwar International Journal of Mathematics and Mathematical Sciences, Volume 9, No. 5, Pages 1067-1088 Impact Factor: 1.300 Quartile: 2 Citations: 2 DOI: https://doi.org/10.33889/IJMEMS.2024.9.5.056	2024
Deep Learning Based Fabric Defect Detection Syeda Rabia Arshad Muhammad Khuram Shahzad Research Reports on Computer Science, Volume 3, Issue 1, Pages 1-11 Impact Factor: N/A DOI: https://doi.org/10.37256/rrcs.3120244156	2024

Neural Machine Translation Models with Attention-Based Dropout Layer <i>Huma Israr Safdar Abbas Khan Muhammad Ali Tahir Muhammad Khuram Shahzad Muneer Ahmed Mohamad Zain</i> <i>Computers, Materials and Continua</i> , Volume 75, Issue 2, Pages 2981-3009 Impact Factor: 3.860 Quartile: 2 Citations: 13 DOI: https://doi.org/10.32604/cmc.2023.035814	2023
Translytics: A Novel Approach for Runtime Selection of Database Layout Based on User's Context <i>Muhammad Makhshif Tanvir Muhammad Khuram Shahzad Muhammad Anwar Su Man Nam</i> <i>Scientific Programming</i> , Volume 2022, Article ID 4301944, 11 pages Impact Factor: 1.672 Quartile: 3 DOI: https://doi.org/10.1155/2022/4301944	2022
Transfer Learning Auto-Encoder Neural Networks for Anomaly Detection of DDoS Generating IoT Device <i>Unsub Shafiq Muhammad Khuram Shahzad Muhammad Anwar Qaisar Shaheen Muhammad Shiraz Abdullah Gani</i> <i>Security and Communication Networks</i> , Volume 2022, Article ID 8221351, 13 pages Impact Factor: N/A Citations: 22 DOI: https://doi.org/10.1155/2022/8221351	2022
MIYOLO: Modification of Improved YOLO-v3 <i>Muhammad Nawaz Mahrukh Khalil Muhammad Khuram Shahzad</i> <i>IETE Journal of Research</i> , Pages 1-10 Impact Factor: 2.333 Quartile: 3 Citations: 3 DOI: https://doi.org/10.1080/03772063.2022.2048709	2022
EPFG: Electricity Price Forecasting with Enhanced GANS Neural Network <i>Maria Hanif Muhammad Khuram Shahzad Vaneeza Mehmood Inshaal Saleem</i> <i>IETE Journal of Research</i> , Pages 1-10 Impact Factor: 2.333 Quartile: 3 Citations: 7 DOI: https://doi.org/10.1080/03772063.2021.2000510	2022
Protocol-Based Deep Intrusion Detection for DoS and DDoS Attacks Using UNSW-NB15 and Bot-IoT Data-Sets <i>Muhammad Zeeshan Qaiser Riaz Muhammad Ahmad Bilal Muhammad Khuram Shahzad Hajira Jabeen Syed Ali Haider Azizur Rahim</i> <i>IEEE Access</i> , Volume 10, Pages 2269-2283 Impact Factor: 3.367 Quartile: 2 Citations: 137 DOI: https://doi.org/10.1109/ACCESS.2021.3137201	2022
A review of phishing attacks and countermeasures for internet of things-based smart business applications in industry 4.0 <i>Ashina Sadiq Muhammad Anwar Rizwan A. Butt Farhan Masud Muhammad Khuram Shahzad Shahid Naseem Muhammad Younas</i> <i>Human Behavior and Emerging Technologies</i> , Volume 3, Issue 5, Pages 854-864 Impact Factor: N/A Citations: 49 DOI: https://doi.org/10.1002/hbe2.301	2021
Encrypted Network Traffic Analysis of Secure Instant Messaging Application: A Case Study of Signal Messenger App <i>Mehdi Hussain Asmara Afzal Shahzad Saleem M. Khuram Shahzad Anthony T.S.HO Ki-Hyun Jung</i> <i>Applied Sciences</i> , Volume 11, Issue 17, Article Number 7789 Impact Factor: 2.838 Quartile: 2 Citations: 19 DOI: https://doi.org/10.3390/app11177789	2021
GAFOR: Genetic Algorithm Based Fuzzy Optimized Re-Clustering in Wireless Sensor Networks <i>Muhammad Khuram Shahzad S. M. Riazul Islam Mahmud Hossain Mohammad Abdullah-Al-Wadud Atif Alamri Mehdi Hussain</i> <i>Mathematics</i> , Volume 9(1), Article Number 43 Impact Factor: 2.258 Quartile: 1 Citations: 22 DOI: https://doi.org/10.3390/math9010043	2020
Secure and Blockchain-Based Emergency Driven Message Protocol for 5G Enabled Vehicular Edge Computing <i>Lewis Nkenyereye Bayu Adhi Tama Muhammad Khurram Shahzad Yoon-Ho Choi</i> <i>Sensors</i> , Volm 20(1), Article Number 154 Impact Factor: 3.275 Quartile: 1 Citations: 48 DOI: doi:10.3390/s20010154	2019

AEF: Adaptive En-Route Filtering to Extend Network Lifetime in Wireless Sensor Networks <i>S. M. Riazul Islam Kyung-Sup Kwak Lewis Nkenyereye Muhammad K Shahzad</i> <i>Sensors</i> , Volume 19, Issue 18 Impact Factor: 3.275 Quartile: 1 Citations: 14 DOI: 10.3390/s19184036	2019
PKSM: Pre-key Distribution and Sink Mobility in Commutative Cipher Based En-route Filtering to Extend the Network Lifetime in WSNs <i>M Khuram Shahzad Tae Ho Cho</i> <i>Ad Hoc & Sensor Wireless Networks</i> , Volume: 42, Issue: 1-2, Pages: 19-33 Impact Factor: 0.948 Quartile: 4 DOI: https://www.oldcitypublishing.com/journals/ahsw-n-home/ahsw-n-issue-contents/ahsw-n-volume-42-number-1-2-2018/ahsw-n-42-1-2-p-19-33/	2018
LNDIR: A Light-Weight Non-Increasing Delivery-Latency Interval-Based Routing for Duty-Cycled Sensor Networks <i>Muhammad Khuram Shahzad Dang Tu Nguyen V. Zalyubovskiy H. Choo</i> <i>International Journal of Distributed Sensor Networks</i> , Volume 14, Issue 4, Pages 1-16 Impact Factor: 1.614 Quartile: 3 Citations: 8 DOI: https://doi.org/10.1177%2F1550147718767605	2018
A Network Density-adaptive Improved CCEF Scheme for Enhanced Network Lifetime, Energy efficiency, and Filtering in WSNs <i>M Khuram Shahzad Tae Ho Cho</i> <i>Ad-Hoc and Sensor Wireless Networks</i> , Volume: 35, Issue: 1-2, Pages: 129-149 Impact Factor: 0.753 Quartile: 4 DOI: https://www.oldcitypublishing.com/journals/ahsw-n-home/ahsw-n-issue-contents/ahsw-n-volume-35-number-1-2-2017/ahsw-n-35-1-2-p-129-149/	2017
Smart Distribution Networks: A Review of Modern Distribution Concepts from a Planning Perspective <i>Syed Ali Abbas Kazmi Muhammad Khuram Shahzad Akif Zia Khan Dong Ryeol Shin</i> <i>Energies</i> , Volume 10, Issue 4, Article Number 501 Impact Factor: 2.676 Quartile: 2 Citations: 81 DOI: 10.3390/en10040501	2017
Voltage Stability Index for Distribution Network connected in Loop Configuration <i>Syed Ali Abbas Kazmi Muhammad Khuram Shahzaad Dong Ryeol Shin</i> <i>IETE Journal of Research</i> , Volume: 63 Issue: 2 Pages: 281-293 Impact Factor: 0.829 Quartile: 4 Citations: 29 DOI: 10.1080/03772063.2016.1257376	2017
Multi-Objective Planning Techniques in Distribution Networks: A Composite Review <i>Ali Abbas Kazmi Muhammad K. Shahzad Dong Ryeol Shin</i> <i>Energies</i> , Volume 10, Issue 2, Article Number 208 Impact Factor: 2.676 Quartile: 2 Citations: 42 DOI: 10.3390/en10020208	2017
An Energy-aware Routing and Filtering node (ERF) selection in CCEF to extend Network lifetime in WSNs <i>M Khuram Shahzad Tae Ho Cho</i> <i>IETE Journal of Research</i> , Volume: 63, Issue: 3, Pages: 368-380 Impact Factor: 0.829 Quartile: 4 Citations: 21 DOI: 10.1080/03772063.2016.1241721	2017
Witness-Header and Next-Node Selection to Extend Network Lifetime in Energy-Efficient Clone-Node Detection in WSNs <i>M Khuram Shahzad Quang-Ngoc Phung</i> <i>I.J. Information Technology and Computer Science</i> , Volume 8, Issue 10, Pages 22-28 Impact Factor: 0 DOI: 10.5815/ijitcs.2016.10.03	2016
ERCA: Energy-aware Routing and re-Clustering Algorithm for CCEF to extend Network Lifetime in WSNs <i>M Khuram Shahzad Jae Kwan Lee Tae Ho Cho</i> <i>Advanced Computational Intelligence: An International Journal</i> , Volume 3, Issue 1, Pages 11-24 Impact Factor: 0 DOI: 10.5121/acii.2016.3102	2016

Sink mobility for commutative cipher based en-route filtering to prolong the network lifetime in wireless sensor networks <i>M Khuram Shahzad Tae Ho Cho</i> <i>International Journal of Advanced Research</i> , Volume 3, Issue 12, pages 1055-1062. Impact Factor: 0 DOI: -	2015
Extending the Network Lifetime by Pre-deterministic Key Distribution in CCEF in Wireless Sensor Networks <i>M Khuram Shahzad Tae Ho Cho</i> <i>Wireless Networks</i> , Volume: 21, Issue: 8, Pages: 2799-2809 Impact Factor: 1.006 Quartile: 3 Citations: 9 DOI: 10.1007/s11276-015-0941-0	2015
Modified CCEF for Energy-efficiency and Extended Network Lifetime in WSNs <i>Muhammad Khuram Shahzad Tae Ho Cho</i> <i>International Journal of Ubicomp (IJU)</i> , Volume 6, No.4, Pages 1-12 Impact Factor: N/A DOI: 10.5121/iju.2015.6401	2015
An Enhanced Detection and Energy-efficient en-route Filtering (EDEF) Scheme in Wireless Sensor Networks <i>Muhammad Khuram Shahzad Tae Ho Cho</i> <i>Informatics Engineering: an International Journal (IEIJ)</i> , Volume 3, No.3, Pages 11-26 Impact Factor: N/A DOI: 10.5121/iej.2015.3302	2015
Points-based Safe Path Planning of Continuum Robots <i>Muhammad Khuram Shahzad Muhammad Sohail Iqbal Peter Bloodsworth</i> <i>International Journal of Advanced Robotic Systems, Sage Publications</i> , Volume 12, Article Number 12 Impact Factor: 0.615 Quartile: 4 Citations: 17 DOI: 10.5772/60857	2015

Conference Proceedings

A Large-Scale Font-Diverse Sindhi Ligature Recognition System <i>Zeeshan Ali Safdar Abbas Khan M. Khuram Shahzad H. S. M. Bilal</i> <i>2023 International Conference on Frontiers of Information Technology, FIT 2023</i> , res.country(177,)	2023
A Forensic Framework for Webmail Threat Detection Using Log Analysis <i>Abdul Saboor Malik Muhammad Khuram Shahzad Mehdi Hussain</i> <i>Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)</i> res.country(188,)	2022
Classification of IoT based DDOS Attack using Machine Learning Techniques <i>Muhammad Fasih Ashfaq Maryam Malik Urooj Fatima Muhammad Khuram Shahzad</i> <i>14th International Conference on Security for Information Technology and Communications (SECITC 2021)</i> , res.country(121,)	2022
Steel Defect Classification Using Machine Learning <i>Syeda Rabia Arshad Ishwa Obaid Rameesha Gull Muhammad Khuram Shahzad</i> <i>The 16th International Conference on Ubiquitous Information Management and Communication (IMCOM 2022)</i> , res.country(121,)	2022
Hybrid ResNet: A Shallow Deep Learning Architecture for Moderate Datasets <i>Ghulam Murtaza Obaid-ur-Rehman Obaid-ur-Rehman Muhammad K. Shahzad S. M. Riazul Islam Mahmud Hossain Kyung-Sup Kwak</i> <i>2021 International Conference on Information and Communication Technology Convergence (ICTC)</i> , res.country(121,)	2021

<p>BPTE: Bitcoin Price Prediction and Trend Examination using Twitter Sentiment Analysis</p> <p><i>Muhammad K. Shahzad Laiba Bukhari Tayyeba Muhammad Khan S. M. Riazul Is Mahmud Hossain Kyung-Sup Kwak</i></p> <p><i>International Conference on Information and Communication Technology Convergence, ICTC 2021, res.country(121,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/ICTC52510.2021.9620216</p>	2021
<p>A Fuzzy System based Approach to Extend Network Lifetime for En-Route Filtering Schemes in WSNs</p> <p><i>M Khuram Shahzad Lewis Nkenyereye S.M. Riazul Islam</i></p> <p><i>2019 11th International Conference on Computer and Automation Engineering, res.country(13,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1145/3313991.3314004</p>	2019
<p>Modeling Optimum ETSP Protocol for WSN</p> <p><i>Muhammad Khuram Shahzad</i></p> <p><i>IEEE International Multitopic Conference , res.country(177,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/INMIC.2008.4777798</p>	2008
<p>Complexity Reduction of Markov Channel Models for Wireless Networks using Graph Theory</p> <p><i>Hassaan Khaliq Qureshi Khurram Shahzad Syed Ali Khayam Muttukrishnan Rajarajan Veselin Rakocevic</i></p> <p><i>Military Communication , res.country(233,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/MILCOM.2008.4753575</p>	2008
<p>SRVF: An Energy-Efficient Link Layer Protocol for Reliable Transmission over Wireless Sensor Networks</p> <p><i>Adnan Iqbal Muhammad Khuram Shahzad Syed Ali Khayam</i></p> <p><i>IEEE International Conference on Communications, res.country(48,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/ICC.2008.35</p>	2008
<p>ETSP: An Energy-efficient Time Synchronization Protocol on Wireless Sensor Networks</p> <p><i>Muhammad Khuram Shahzad Arshad Ali Nasiruddin Gohar</i></p> <p><i>IEEE 22nd International Conference on Advanced Information Networking and Applications, res.country(113,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/WAINA.2008.181</p>	2008

Editorial Activities

Cluster Computing Reviewed Papers for Journals Impact Factor: 3.6	2024
Journal of Intelligent Systems and Internet of Things Edited Journal Issue / Proceeding / Book Impact Factor: N/A	2024
IEEE Access Reviewed Papers for Journals Impact Factor: 3.476	2024
IEEE Access Reviewed Papers for Journals Impact Factor: 3.9	2024
IEEE Access Reviewed Papers for Journals Impact Factor: 3.476	2023
IEEE Access Reviewed Papers for Journals Impact Factor: 3.476	2023
IEEE Access Reviewed Papers for Journals Impact Factor: 3.476	2023
Wireless Personal Communications Reviewed Papers for Journals Impact Factor: 2.2	2023
IEEE Access Reviewed Papers for Journals Impact Factor: 3.476	2023
IEEE Access Reviewed Papers for Journals Impact Factor: 3.476	2023
IEEE Access Reviewed Papers for Journals Impact Factor: 3.476	2023
Journal of Supercomputing Reviewed Papers for Journals Impact Factor: 2.557	2022