Muhammad Khuram Shahzad

Associate Professor

School of Electrical Engineering and Computer Science

Email: mkhuram.shahzad@seecs.edu.pk
Contact: 519085255
LinkedIn: https://www.linkedin.com/in/muhammad-khuram-shazhad-25114a1a/

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   2013 - 2016
Sung Kyun Kwan University , Korea

MS in Information Technology   2004 - 2007
NUST, Islamabad , Pakistan

BS in Information Technology   1999 - 2004
University of Lahore , Pakistan

Experience

Associate Professor   2022- Present
School of Electrical Engineering and Computer Science

Assistant Professor   2019 - 2022
School of Electrical Engineering and Computer Science

Associate Professor   2022 - 2023
NUST University , H-12, Islamabad

Assistant Professor   2019 - 2022
NUST University , H-12 Islamabad

Assistant Professor   2017 - 2018
Keimyung University , Daegu, S. Korea

Post doctorate   2016 - 2017
Sungkyunkwan University , Suwon, South Korea

Lab Supervisor   2008 - 2008
NUST University , H-12 Islamabad

Research Assistant   2006 - 2007
NUST University (NIIT) , H-12 Islamabad

Research Articles

Improved Urdu-English Neural Machine Translation with a fully Convolutional Neural Network Encoder   2024
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

Deep Learning Based Fabric Defect Detection   2024
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

Neural Machine Translation Models with Attention-Based Dropout Layer

2023

Huma Israr Safdar Abbas Khan Muhammad Ali Tahir Muhammad Khuram Shahzad Muneer Ahmed Mohamad Zain

Computers, Materials and Continua, Volume 75, Issue 2, Pages 2981-3009

Impact Factor: 3.860 | **Quartile:** 2 | **Citations:** 13

Translytics: A Novel Approach for Runtime Selection of Database Layout Based on User's Context

2022

Muhammad Makhshif Tanvir Muhammad Khuram Shahzad Muhammad Anwar Su Man Nam

Scientific Programming, Volume 2022, Article ID 4301944, 11 pages

Impact Factor: 1.672 | **Quartile:** 3

Transfer Learning Auto-Encoder Neural Networks for Anomaly Detection of DDoS Generating IoT Device

2022

Unsub Shafiq Muhammad Khuram Shahzad Muhammad Anwar Qaisar Shaheen Muhammad Shiraz Abdullah Gani

Security and Communication Networks, Volume 2022, Article ID 8221351, 13 pages

Impact Factor: N/A | **Citations:** 22

MIYOLO: Modification of Improved YOLO-v3

2022

Muhammad Nawaz Mahrukh Khalil Muhammad Khuram Shahzad

IETE Journal of Research, Pages 1-10

Impact Factor: 2.333 | **Quartile:** 3 | **Citations:** 3

EPFG: Electricity Price Forecasting with Enhanced GANS Neural Network

2022

Maria Hanif Muhammad Khuram Shahzad Vaneeza Mehmood Inshaal Saleem

IETE Journal of Research, Pages 1-10

Impact Factor: 2.333 | **Quartile:** 3 | **Citations:** 7

Protocol-Based Deep Intrusion Detection for DoS and DDoS Attacks Using UNSW-NB15 and Bot-IoT Data-Sets

2022

Muhammad Zeeshan Qaiser Riaz Muhammad Ahmad Bilal Muhammad Khuram Shahzad Hajira Jabeen Syed Ali Haider Azizur Rahim

IEEE Access, Volume 10, Pages 2269-2283

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 137

A review of phishing attacks and countermeasures for internet of things-based smart business applications in industry 4.0

2021

Ashina Sadiq Muhammad Anwar Rizwan A. Butt Farhan Masud Muhammad Khuram Shahzad Shahid Naseem Muhammad Younas

Human Behavior and Emerging Technologies, Volume 3, Issue 5, Pages 854-864

Impact Factor: N/A | **Citations:** 49

Encrypted Network Traffic Analysis of Secure Instant Messaging Application: A Case Study of Signal Messenger App

2021

Mehdi Hussain Asmara Afzal Shahzad Saleem M. Khuram Shahzad Anthony T.S.HO Ki-Hyun Jung

Applied Sciences, Volume 11, Issue 17, Article Number 7789

Impact Factor: 2.838 | **Quartile:** 2 | **Citations:** 19

GAFOR: Genetic Algorithm Based Fuzzy Optimized Re-Clustering in Wireless Sensor Networks

2020

Muhammad Khuram Shahzad S. M. Riazul Islam Mahmud Hossain Mohammad Abdullah-Al-Wadud Atif Alamri Mehdi Hussain

Mathematics, Volume 9(1), Article Number 43

Impact Factor: 2.258 | **Quartile:** 1 | **Citations:** 22

Secure and Blockchain-Based Emergency Driven Message Protocol for 5G Enabled Vehicular Edge Computing

2019

Lewis Nkenyereye Bayu Adhi Tama Muhammad Khurram Shahzad Yoon-Ho Choi

Sensors, Volm 20(1), Article Number 154

Impact Factor: 3.275 | **Quartile:** 1 | **Citations:** 48

AEF: Adaptive En-Route Filtering to Extend Network Lifetime in Wireless Sensor Networks

2019

S. M. Riazul Islam Kyung-Sup Kwak Lewis Nkenyereye Muhammad K Shahzad

Sensors , Volume 19, Issue 18

Impact Factor: 3.275 | **Quartile:** 1 | **Citations:** 14
DOI: 10.3390/s19184036

PKSM: Pre-key Distribution and Sink Mobility in Commutative Cipher Based En-route Filtering to Extend the Network Lifetime in WSNs

2018

M Khuram Shahzad Tae Ho Cho

Ad Hoc & Sensor Wireless Networks, Volume: 42, Issue: 1-2, Pages: 19-33

Impact Factor: 0.948 | **Quartile:** 4
DOI: https://www.oldcitypublishing.com/journals/ahswn-home/ahswn-issue-contents/ahswn-volume-42-number-1-2-2018/ahswn-42-1-2-p-19-33/

LNDIR: A Light-Weight Non-Increasing Delivery-Latency Interval-Based Routing for Duty-Cycled Sensor Networks

2018

Muhammad Khuram Shahzad Dang Tu Nguyen V. Zalyubovskiy H. Choo

International Journal of Distributed Sensor Networks, Volume 14, Issue 4, Pages 1-16

Impact Factor: 1.614 | **Quartile:** 3 | **Citations:** 8
DOI: https://doi.org/10.1177%2F1550147718767605

A Network Density-adaptive Improved CCEF Scheme for Enhanced Network Lifetime, Energy efficiency, and Filtering in WSNs

2017

M Khuram Shahzad Tae Ho Cho

Ad-Hoc and Sensor Wireless Networks , Volume: 35, Issue: 1-2, Pages: 129-149

Impact Factor: 0.753 | **Quartile:** 4
DOI: https://www.oldcitypublishing.com/journals/ahswn-home/ahswn-issue-contents/ahswn-volume-35-number-1-2-2017/ahswn-35-1-2-p-129-149/

Smart Distribution Networks: A Review of Modern Distribution Concepts from a Planning Perspective

2017

Syed Ali Abbas Kazmi Muhammad Khuram Shahzad Akif Zia Khan Dong Ryeol Shin

Energies , Volume 10, Issue 4, Article Number 501

Impact Factor: 2.676 | **Quartile:** 2 | **Citations:** 81
DOI: 10.3390/en10040501

Voltage Stability Index for Distribution Network connected in Loop Configuration

2017

Syed Ali Abbas Kazmi Muhammad Khuram Shahzaad Dong Ryeol Shin

IETE Journal of Research, Volume: 63 Issue: 2 Pages: 281-293

Impact Factor: 0.829 | **Quartile:** 4 | **Citations:** 29
DOI: 10.1080/03772063.2016.1257376

Multi-Objective Planning Techniques in Distribution Networks: A Composite Review

2017

Ali Abbas Kazmi Muhammad K. Shahzad Dong Ryeol Shin

Energies , Volume 10, Issue 2, Article Number 208

Impact Factor: 2.676 | **Quartile:** 2 | **Citations:** 42
DOI: 10.3390/en10020208

An Energy-aware Routing and Filtering node (ERF) selection in CCEF to extend Network lifetime in WSNs

2017

M Khuram Shahzad Tae Ho Cho

IETE Journal of Research, Volume: 63, Issue: 3, Pages: 368-380

Impact Factor: 0.829 | **Quartile:** 4 | **Citations:** 21
DOI: 10.1080/03772063.2016.1241721

Witness-Header and Next-Node Selection to Extend Network Lifetime in Energy-Efficient Clone-Node Detection in WSNs

2016

M Khuram Shahzad Quang-Ngoc Phung

I.J. Information Technology and Computer Science , Volume 8, Issue 10, Pages 22-28

Impact Factor: 0
DOI: 10.5815/ijitcs.2016.10.03

ERCA: Energy-aware Routing and re-Clustering Algorithm for CCEF to extend Network Lifetime in WSNs

2016

M Khuram Shahzad Jae Kwan Lee Tae Ho Cho

Advanced Computational Intelligence: An International Journal, Volume 3, Issue 1, Pages 11-24

Impact Factor: 0
DOI: 10.5121/acii.2016.3102

Sink mobility for commutative cipher based en-route filtering to prolong the network lifetime in wireless sensor networks   2015

M Khuram Shahzad Tae Ho Cho

International Journal of Advanced Research, Volume 3, Issue 12, pages 1055-1062.

Impact Factor: 0
DOI: -

Extending the Network Lifetime by Pre-deterministic Key Distribution in CCEF in Wireless Sensor Networks   2015

M Khuram Shahzad Tae Ho Cho

Wireless Networks , Volume: 21, Issue: 8, Pages: 2799-2809

Impact Factor: 1.006 | **Quartile:** 3 | **Citations:** 9
DOI: 10.1007/s11276-015-0941-0

Modified CCEF for Energy-efficiency and Extended Network Lifetime in WSNs   2015

Muhammad Khuram Shahzad Tae Ho Cho

International Journal of Ubicomp (IJU), Volume 6, No.4, Pages 1-12

Impact Factor: N/A
DOI: 10.5121/iju.2015.6401

An Enhanced Detection and Energy-efficient en-route Filtering (EDEF) Scheme in Wireless Sensor Networks   2015

Muhammad Khuram Shahzad Tae Ho Cho

Informatics Engineering: an International Journal (IEIJ), Volume 3, No.3, Pages 11-26

Impact Factor: N/A
DOI: 10.5121/ieij.2015.3302

Points-based Safe Path Planning of Continuum Robots   2015

Muhammad Khuram Shahzad Muhammad Sohail Iqbal Peter Bloodsworth

International Journal of Advanced Robotic Systems, Sage Publications, Volume 12, Article Number 12

Impact Factor: 0.615 | **Quartile:** 4 | **Citations:** 17
DOI: 10.5772/60857

Conference Proceedings

A Large-Scale Font-Diverse Sindhi Ligature Recognition System   2023

Zeeshan Ali Safdar Abbas Khan M. Khuram Shahzad H. S. M. Bilal

2023 International Conference on Frontiers of Information Technology, FIT 2023, res.country(177,)

Citations: N/A
DOI: 10.1109/FIT60620.2023.00033

A Forensic Framework for Webmail Threat Detection Using Log Analysis   2022

Abdul Saboor Malik Muhammad Khuram Shahzad Mehdi Hussain

Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) res.country(188,)

Citations: N/A
DOI: 10.1007/978-3-031-17510-7_5

Classification of IoT based DDOS Attack using Machine Learning Techniques   2022

Muhammad Fasih Ashfaq Maryam Malik Urooj Fatima Muhammad Khuram Shahzad

14th International Conference on Security for Information Technology and Communications (SECITC 2021), res.country(121,)

Citations: N/A
DOI: 10.1109/IMCOM53663.2022.9721740

Steel Defect Classification Using Machine Learning   2022

Syeda Rabia Arshad Ishwa Obaid Rameesha Gull Muhammad Khurram Shahzad

The 16th International Conference on Ubiquitous Information Management and Communication (IMCOM 2022), res.country(121,)

Citations: N/A
DOI: 10.1109/IMCOM53663.2022.9721728

Hybrid ResNet: A Shallow Deep Learning Architecture for Moderate Datasets   2021

Ghulam Murtaza Obaid-ur-Rehman Obaid-ur-Rehman Muhammad K. Shahzad S. M. Riazul Islam Mahmud Hossain Kyung-Sup Kwak

2021 International Conference on Information and Communication Technology Convergence (ICTC), res.country(121,)

Citations: N/A
DOI: 10.1109/ICTC52510.2021.9620864

BPTE: Bitcoin Price Prediction and Trend Examination using Twitter Sentiment Analysis 2021

Muhammad K. Shahzad Laiba Bukhari Tayyeba Muhammad Khan S. M. Riazul Is Mahmud Hossain Kyung-Sup Kwak

International Conference on Information and Communication Technology Convergence, ICTC 2021, res.country(121,)

Citations: N/A
DOI: 10.1109/ICTC52510.2021.9620216

A Fuzzy System based Approach to Extend Network Lifetime for En-Route Filtering Schemes in WSNs 2019

M Khuram Shahzad Lewis Nkenyereye S.M. Riazul Islam

2019 11th International Conference on Computer and Automation Engineering, res.country(13,)

Citations: N/A
DOI: 10.1145/3313991.3314004

Modeling Optimum ETSP Protocol for WSN 2008

Muhammad Khuram Shahzad

IEEE International Multitopic Conference , res.country(177,)

Citations: N/A
DOI: 10.1109/INMIC.2008.4777798

Complexity Reduction of Markov Channel Models for Wireless Networks using Graph Theory 2008

Hassaan Khaliq Qureshi Khurram Shahzad Syed Ali Khayam Muttukrishnan Rajarajan Veselin Rakocevic

Military Communication , res.country(233,)

Citations: N/A
DOI: 10.1109/MILCOM.2008.4753575

SRVF: An Energy-Efficient Link Layer Protocol for Reliable Transmission over Wireless Sensor Networks 2008

Adnan Iqbal Muhammad Khuram Shahzad Syed Ali Khayam

IEEE International Conference on Communications, res.country(48,)

Citations: N/A
DOI: 10.1109/ICC.2008.35

ETSP: An Energy-efficient Time Synchronization Protocol on Wireless Sensor Networks 2008

Muhammad Khuram Shahzad Arshad Ali Nasiruddin Gohar

IEEE 22nd International Conference on Advanced Information Networking and Applications, res.country(113,)

Citations: N/A
DOI: 10.1109/WAINA.2008.181

Editorial Activities

Cluster Computing   2024
  Reviewed Papers for Journals
  Impact Factor: 3.6

Journal of Intelligent Systems and Internet of Things   2024
  Edited Journal Issue / Proceeding / Book
  Impact Factor: N/A

IEEE Access   2024
  Reviewed Papers for Journals
  Impact Factor: 3.476

IEEE Access   2024
  Reviewed Papers for Journals
  Impact Factor: 3.9

IEEE Access   2023
  Reviewed Papers for Journals
  Impact Factor: 3.476

IEEE Access   2023
  Reviewed Papers for Journals
  Impact Factor: 3.476

IEEE Access   2023
  Reviewed Papers for Journals
  Impact Factor: 3.476

Wireless Personal Communications   2023
  Reviewed Papers for Journals
  Impact Factor: 2.2

IEEE Access   2023
  Reviewed Papers for Journals
  Impact Factor: 3.476

IEEE Access   2023
  Reviewed Papers for Journals
  Impact Factor: 3.476

IEEE Access   2023
  Reviewed Papers for Journals
  Impact Factor: 3.476

Journal of Supercomputing   2022
  Reviewed Papers for Journals
  Impact Factor: 2.557