Muhammad Zeeshan

Associate Professor

School of Electrical Engineering and Computer Science

Email: muhammad.zeeshan@seecs.edu.pk
Contact: 0514914952
LinkedIn: https://www.linkedin.com/in/zeeshanbhatti/

About

Dr. Muhammad Zeeshan is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Muhammad Zeeshan has a PhD in Information Technology. Dr. Muhammad Zeeshan has published 32 research articles & conference papers having a citation count of 580, carried out 6 projects and filed 0 intellectual property.

Qualifications

PhD in Information Technology   2009 - 2016
  NUST, Islamabad , Pakistan

MS in Computer Engineerig   2007 - 2009
  UET Taxila , Pakistan

B.Sc (Hon) in Computer Science   2001 - 2005
  Allama Iqbal Open University , Pakistan

Experience

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

Assistant Professor   2016 - 2022
  School of Electrical Engineering and Computer Science

Assistant Professor   2013 - 2016
  Iqra University Islamabad Campus , Sector H9, Islamabad

Project Manager   2010 - 2011
  School of Electrical Engineering and Computer Science (SEECS) , Sector H12, Islamabad

Senior Design Engineer   2009 - 2010
  Center of Research in Networks and Telecommunications (CoReNeT) , Capital University of Sciences and Technology, Islamabad

Software Design Engineer   2008 - 2009
  Center of Research in Networks and Telecommunications (CoReNeT) , Capital University of Sciences and Technology, Islamabad

Scientific Assistant-Computer   2003 - 2006
  Chemical Plants Complex, PAEC , Chemical Plants Complex, PAEC, DGKhan

TUGT Computer Teacher   2002 - 2003
  PAEC Inter Science College DGKhan , CPC Colony Dera Ghazi Khan

Awards

HEC Indigenous PhD Fellow   2007
  HEC Indigenous PhD Fellowship

Industry Projects

National Projects

Consultancy Service with DEXTROUR SYSTEMS (PVT) Limited Rawalpindi (for Valyrian Systems Inc. USA) - Dr Muhammad Zeeshan
2024

Client: DEXTROUR SYSTEMS (PVT) Limited Rawalpindi (for Valyrian Systems Inc. USA)
Amount: PKR 1,000,000.00
Status: Approved_inprocess

Dr. Muhammad Zeeshan consultancy with VALYRIAN SYSTEMS PVT LTD
2023

Client: VALYRIAN SYSTEMS PVT LTD Lahore (for VALYRIAN SYSTEMS Inc USA)
Amount: PKR 3,000,000.00
Status: Approved_inprocess

Dr. Muhammad Zeeshan consultancy with VALYRIAN SYSTEMS PVT LTD
2023

Client: VALYRIAN SYSTEMS PVT LTD Lahore (for VALYRIAN SYSTEMS Inc USA)
Amount: PKR 2,000,000.00
Status: Approved_inprocess

Consultancy Service with INFOTECH PRIVATE LIMITED - Dr. Muhammad Zeeshan
2022

Client: VALYRIAN SYSTEMS PVT LTD Lahore (for VALYRIAN SYSTEMS Inc USA)
Amount: PKR 2,250,000.00
Status: Approved_inprocess

(Revised) Consultancy Service with INFOTECH PRIVATE LIMITED - Dr. Muhammad Zeeshan
2022

Client: INFOTECH PRIVATE LIMITED
Amount: PKR 386,598.00
Status: Approved_inprocess

Consultancy Service with INFOTECH PRIVATE LIMITED - Dr. Muhammad Zeeshan
2022

Client: INFOTECH PRIVATE LIMITED
Amount: PKR 750,000.00
Status: Approved_inprocess

International Projects

Research Articles

Towards Effective Parkinson's Monitoring: Movement Disorder Detection and Symptom Identification Using Wearable Inertial Sensors
2025

Umar Khan Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger

Algorithms , Volume 18(4), Article Number 203

Impact Factor: 1.800 | **Quartile:** 2
DOI: https://doi.org/10.3390/a18040203

Intelligent parameter-based in-network IDS for IoT using UNSW-NB15 and BoT-IoT datasets
2025

Muhammad Luqman Qaiser Riaz Mehdi Hussain Hasan Tahir Muhammad Zeeshan Noman Mazhar Muhammad Saffeer Khan

Journal of the Franklin Institute , Volume 362, Issue 1, Article Number 107440

Impact Factor: 3.700 | **Quartile:** 1 | **Citations:** 4
DOI: https://doi.org/10.1016/j.jfranklin.2024.107440

Forensic analysis of web browsers lifecycle: A case study
2024

Ahmed Raza Mehdi Hussain Hasan Tahir Muhammad Zeeshan Muhammad Adil Raja Ki-Hyun Jung

Journal of Information Security and Applications, Volume 85 , Article Number 103839

Impact Factor: 3.800 | **Quartile:** 2 | **Citations:** 3
DOI: https://doi.org/10.1016/j.jisa.2024.103839

Unveiling Fall Origins: Leveraging Wearable Sensors to Detect Pre-Impact Fall Causes
2024

Qaiser Riaz Mehdi Hussain Muhammad Zeeshan Björn Krüger Samia Kiran
IEEE Sensors Journal, Volume: 24, Issue: 15, Pages:24086-24095

Impact Factor: 4.300 | **Quartile:** 1 | **Citations:** 7
DOI: 10.1109/JSEN.2024.3407835

Hiding EPR and watermark in medical images using repeated pixel differencing
2023

Hira Aftab Mehdi Hussain Qaiser Riaz Muhammad Zeeshan Ki-Hyun Jung

Multimedia Tools and Applications , Pages 1-29

Machines Perceive Emotions: Identifying Affective States from Human Gait Using On-Body Smart Devices

2023

Hamza Ali Imran Qaiser Riaz Muhammad Zeeshan Mehdi Hussain Razi Arshad

Applied Sciences , Volume 13, Issue 8, 4828

R-IDPS: Real Time SDN Based IDPS System for IoT Security

2022

Noman Mazhar Rosli Saleh Reza Zaba Muhammad Zeeshan Muzaffar Hameed Nauman Khan

CMC-Computers, Materials & Continua , Volume 73, No.2, Pages 3099-3118

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

A dual model node based optimization algorithm for simultaneous escape routing in PCBs

2021

Asad Ali Anjum Naveed Muhammad Zeeshan

Peer J Computer Science , Volume 7, Article Number e499

Role of Device Identification and Manufacturer Usage Description in IoT Security: A Survey

2021

Noman Mazhar Rosli Salleh Muhammad Zeeshan M. Muzaffar Hameed

IEEE Access , Volume 9, Pages 41757-41786

Towards improved clustering and routing protocol for wireless sensor networks

2021

Mohammad Ali Alharbi Mario Kolberg Muhammad Zeeshan

EURASIP Journal on Wireless Communications and Networking, Volume 2021, Article Number 46

Intrusion detection in internet of things using supervised machine learning based on application and transport layer features using UNSW-NB15 data-set

2021

Muhammad Ahmad Muhammad Zeeshan Syed Ali Haider Muhammad Safeer Khan Hasan Tahir Qaiser Riaz

EURASIP Journal on Wireless Communications and Networking, Volume 2021, Article Number 10

SDN based Intrusion Detection and Prevention Systems using Manufacturer Usage Description: A Survey

2020

Noman Mazhar Rosli Salleh Mohammad Asif Hossain Muhammad Zeeshan

International Journal of Advanced Computer Science and Applications, Volume 11, Issue 12, Pages 717-737

Motion Reveal Emotions: Identifying Emotions from Human Walk Using Chest Mounted Smartphone

2020

Muhammad Zeeshan Muhammad Arslan Hashmi Qaiser Riaz Muhammad Shahzad Muhammad Moazam Fraz

IEEE Sensors Journal , Volume 20, Issue 22, Pages 13511-13522

Performance Impact of Relay Selection in WiMAX IEEE 802.16j Multi-hop Relay Networks

2019

Noman Mazhar Muhammad Zeeshan Anjum Naveed

International Journal of Advanced Computer Science and Applications (IJACSA), Volume 10, No. 9, Pages 383-391

Circular Calibration of Depth Extraction in Stereo Configuration   2018

Zulfiqar Ibrahim Zulfiqar Ali Bangash Muhammad Zeeshan

International Journal of Advanced Computer Science and Applications (IJACSA), NULL

Impact Factor: 0 | **Citations:** 2

Mobility based Net Ordering for Simultaneous Escape Routing   2017

Kashif Sattar Anjum Naveed Aleksandar Ignjatovic Muhammad Zeeshan

International Journal of Advanced Computer Science and Applications, Volume 8, Issue 7, Pages 452-461

Impact Factor: 0

Medium access behavior analysis of two-flow topologies in IEEE 802.11 wireless networks   2016

Muhammad Zeeshan Anjum Naveed

EURASIP Journal on Wireless Communications and Networking, Article Number 42

Impact Factor: 1.529 | **Quartile:** 3 | **Citations:** 6

Modeling packet loss probability and busy time in multi-hop wireless networks   2015

Asad Ali Anjum Naveed Alex X. Liu Ann Wang Hassaan Khaliq Qureshi Muhammad Zeeshan

EURASIP Journal on Wireless Communications and Networking, Pages: 1-16 Article Number: 168

Impact Factor: 0.627 | **Quartile:** 3 | **Citations:** 10

A capacity and minimum guarantee-based service class-oriented scheduler for LTE networks   2013

Salman Ali Anjum Naveed Muhammad Zeeshan

EURASIP Journal on Wireless Communications and Networking, Article Number: 67

Impact Factor: 0.805 | **Quartile:** 3 | **Citations:** 21

Conference Proceedings

R-IDPS: Real time SDN based IDPS system for IoT securit   2021

Noman Mazhar Rosli Salleh Muhammad Zeeshan M. Muzaffar Hameed Nauman Khan

IEEE 18th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET), res.country(177,)

Citations: 6

Design and Testing of SNMP/MIB based IoT Control API   2019

Muhammad Zeeshan Mohammad Ziad Siddiqui Farrukh Bin Rashid

2019 IEEE 16th International Conference on Smart Cities: Improving Quality of Life Using ICT & IoT and AI (HONET-ICT, res.country(233,)

Citations: 3

Intrusion Detection In IoT Using Artificial Neural Networks On UNSW-15 Dataset   2019

Sohaib Hanif Tuba Ilyas Muhammad Zeeshan

2019 IEEE 16th International Conference on Smart Cities: Improving Quality of Life Using ICT & IoT and AI (HONET-ICT, res.country(233,)

Citations: 39

An Optimal Distributed Algorithm for Best AP Selection and Load Balancing in WiFi   2018

Uferah Shafi Muhammad Zeeshan Naveed Iqbal Nadia Kalsoom Rafia Mumtaz

15th International Conference on Smart Cities: Improving Quality of Life Using ICT & IoT (HONET-ICT) res.country(177,)

Citations: 13

A Network Flow Approach for Simultaneous Escape Routing in PCB   2017

Asad Ali Muhammad Zeeshan Anjum Naveed

2017 14th International Conference on Smart Cities: Improving Quality of Life Using ICT & IoT (HONET-ICT) , res.country(112,)

Citations: 3

Traffic Pattern Based Adaptive Spectrum Handoff Strategy for Cognitive Radio Networks   2016

Irfan Hanif Muhammad Zeeshan Akhlaque Ahmed

2016 10th International Conference on Next Generation Mobile Applications, Security and Technologies (NGMAST), res.country(231,)

Citations: 8
DOI: 10.1109/NGMAST.2016.10

Interference and Capacity Analysis in Multi-Hop Wireless Mesh Networks 2013

Muhammad Zeeshan Anjum Naveed

2013 21st IEEE International Conference on Network Protocols (ICNP), res.country(57,)

Citations: 1
DOI: 10.1109/ICNP.2013.6733645

Routing and Spectrum Decision in Single Transceiver Cognitive Radio Networks 2013

Muhammad Zeeshan Kashif Sattar Zawar Shah Imdad Ullah

2013 IEEE 78th Vehicular Technology Conference (VTC Fall), res.country(233,)

Citations: N/A
DOI: 10.1109/VTCFall.2013.6692398

A Spectrum Exploitation Scheme with Channel Assignment for Genetic Algorithm based Adaptive-Array Smart Antennas in Cognitive Radio Networks 2012

Muhammad Zeeshan Salman Ali

2012 IEEE International Conference on Communications (ICC), res.country(38,)

Citations: 3
DOI: 10.1109/ICC.2012.6364404

A Utility Based Resource Allocation Scheme with Delay Scheduler for LTE Service-Class Support 2012

Muhammad Zeeshan Salman Ali

2012 IEEE Wireless Communications and Networking Conference Workshops, WCNCW 2012, res.country(75,)

Citations: 34
DOI: 10.1109/WCNC.2012.6214009

A Delay-Scheduler Coupled Game Theoretic Resource Allocation Scheme for LTE Networks 2011

Muhammad Zeeshan Salman Ali

2011 9th International Conference on Frontiers of Information Technology, res.country(177,)

Citations: 14
DOI: 10.1109/FIT.2011.11

Backup Channel and Cooperative Channel Switching On-Demand Routing Protocol for Multi-Hop Cognitive Radio Ad Hoc Networks (BCCCS) 2010

Muhammad Zeeshan Muhammad Fahad Manzoor Junaid Qadir

2010 6th International Conference on Emerging Technologies (ICET), res.country(177,)

Citations: 26
DOI: 10.1109/ICET.2010.5638455

Editorial Activities

N/A 2024
Reviewed Papers for Journals
Impact Factor: N/A

N/A 2024
Reviewed Papers for Journals
Impact Factor: N/A

Transactions on Computers 2024
Reviewed Papers for Journals
Impact Factor: 3.6

PLOS One 2024
Reviewed Papers for Journals
Impact Factor: 2.9

N/A 2024
Reviewed Papers for Journals
Impact Factor: N/A

N/A 2024

Reviewed Papers for Journals
Impact Factor: N/A

N/A   2024
Reviewed Papers for Journals
Impact Factor: N/A

Cybernetics and Systems   2024
Reviewed Papers for Journals
Impact Factor: 1.1

Computing Surveys   2024
Reviewed Papers for Journals
Impact Factor: 23.8

Tsp Online System   2024
Reviewed Papers for Journals
Impact Factor: 2.0

Bulletin of the Polish Academy of Sciences   2024
Reviewed Papers for Journals
Impact Factor: 1.2

Cybernetics and Systems   2024
Reviewed Papers for Journals
Impact Factor: 1.1

N/A   2024
Reviewed Papers for Journals
Impact Factor: N/A

Security and Communication Networks   2024
Reviewed Papers for Journals
Impact Factor: N/A

PLOS ONE   2024
Reviewed Papers for Journals
Impact Factor: 2.9

Discover Applied Sciences   2024
Reviewed Papers for Journals
Impact Factor: 2.8

Biomedical Engineering (BME)   2024
Reviewed Papers for Journals
Impact Factor: 0.3

Applied Computational Intelligence and Soft Computing   2024
Reviewed Papers for Journals
Impact Factor: 2.4

Patrichia Sinnapa   2024
Reviewed Papers for Journals
Impact Factor: 0

COMPUTING AND INFORMATICS   2023
Reviewed Papers for Journals
Impact Factor: 0.7

Biomedical Engineering (BME)   2023
Reviewed Papers for Journals
Impact Factor: 0.3

Sensors   2023
Reviewed Papers for Journals
Impact Factor: 3.4

IEEE Systems Journal   2023
Reviewed Papers for Journals
Impact Factor: 4

Informatics   2023
  Reviewed Papers for Journals
  Impact Factor: 3.4

N/A   2023
  Reviewed Papers for Journals
  Impact Factor: N/A

N/A   2023
  Reviewed Papers for Journals
  Impact Factor: N/A

N/A   2023
  Reviewed Papers for Journals
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N/A   2023
  Reviewed Papers for Journals
  Impact Factor: N/A

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  Reviewed Papers for Journals
  Impact Factor: N/A

Medical and Health Sciences   2023
  Reviewed Papers for Journals
  Impact Factor: 0.939

Transactions on Intelligent Transportation Systems   2023
  Reviewed Papers for Journals

Impact Factor: 8.5

Sensors   2023
Reviewed Papers for Journals
Impact Factor: 3.9

International Journal of Environmental Research and Public Health   2023
Reviewed Papers for Journals
Impact Factor: 3.390

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Reviewed Papers for Journals
Impact Factor: N/A

Diagnostics   2022
Reviewed Papers for Journals
Impact Factor: 3.6

Computer Science and Information Systems   2022
Reviewed Papers for Journals
Impact Factor: 1.170

ETRI Journal   2022
Reviewed Papers for Journals
Impact Factor: 1.4

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Reviewed Papers for Journals
Impact Factor: N/A

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Reviewed Papers for Journals
Impact Factor: N/A

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Reviewed Papers for Journals
Impact Factor: N/A

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Impact Factor: N/A

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Reviewed Papers for Journals
Impact Factor: N/A

N/A   2022
Reviewed Papers for Journals
Impact Factor: N/A

Sustainability   2022
Reviewed Papers for Journals
Impact Factor: 3.9

Information   2022
Reviewed Papers for Journals
Impact Factor: NA

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

IEEE Internet of Things Journal   2022
Reviewed Papers for Journals
Impact Factor: 9.471

Tropical Medicine and Infectious Disease   2022
Reviewed Papers for Journals
Impact Factor: 3.711

IEEE Access   2022

Reviewed Papers for Journals
Impact Factor: 3.367

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

International Journal of Computing and Digital Systems   2022
Reviewed Papers for Journals
Impact Factor: NA

International Journal of Environmental Research and Public Health   2022
Reviewed Papers for Journals
Impact Factor: 4.614

Energy Policy   2021
Reviewed Papers for Journals
Impact Factor: 3.352

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Reviewed Papers for Journals
Impact Factor: NA

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Reviewed Papers for Journals
Impact Factor: NA

IEEE Systems Journal   2021
Reviewed Papers for Journals
Impact Factor: 4.802

IEEE Systems Journal   2021
Reviewed Papers for Journals
Impact Factor: 4.802

Mobile Information Systems   2021
Reviewed Papers for Journals
Impact Factor: NA

IEEE Access   2021
Reviewed Papers for Journals
Impact Factor: 3.476

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Reviewed Papers for Journals
Impact Factor: NA

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Reviewed Papers for Journals
Impact Factor: NA

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Reviewed Papers for Journals
Impact Factor: 0.276

IEEE Transactions on Industrial Informatics   2021
Reviewed Papers for Journals
Impact Factor: 11.648

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Reviewed Papers for Journals
Impact Factor: NA

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Reviewed Papers for Journals
Impact Factor: 3.931

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Reviewed Papers for Journals
Impact Factor: 3.931

2021

Reviewed Papers for Journals
Impact Factor: na

2021

Reviewed Papers for Journals
Impact Factor: na

2021

Reviewed Papers for Journals
Impact Factor: 2.474

2021

Reviewed Papers for Journals
Impact Factor: na

2021

Reviewed Papers for Journals
Impact Factor: 0.858

2021

Reviewed Papers for Journals
Impact Factor: na

2021

Reviewed Papers for Journals
Impact Factor: na

2020

Reviewed Papers for Journals
Impact Factor: 2.474

2020

Reviewed Papers for Journals
Impact Factor: na

2020

Reviewed Papers for Journals
Impact Factor: na

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2020

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2020

Reviewed Papers for Journals
Impact Factor: 3.367

2020

Reviewed Papers for Journals

Impact Factor: na

Reviewed Papers for Journals
Impact Factor: na

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Impact Factor: na

Reviewed Papers for Journals
Impact Factor: na

Reviewed Papers for Journals
Impact Factor: 5.29

Reviewed Papers for Journals

Reviewed Papers for Journals
Impact Factor: 0.94

Reviewed Papers for Journals

Reviewed Papers for Journals

Reviewed Papers for Journals

Reviewed Papers for Journals
Impact Factor: 5.29

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Impact Factor: -

Reviewed Papers for Journals
Impact Factor: 9.302

2019

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2019

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Impact Factor: -

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2018

Reviewed Papers for Journals
Impact Factor: 4.337

2018

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Impact Factor: 2.407

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Impact Factor: 4.337

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Reviewed Papers for Journals
Impact Factor: 2.407

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Impact Factor: 1.443

2018

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Impact Factor: 3.557

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Impact Factor: 2.522

Reviewed Papers for Journals
Impact Factor: 2.407