Asad Wagar Malik

Associate Professor

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About

Dr. Asad Waqar Malik is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Asad Waqar Malik has a PhD in Parallel And Distributed Simulation. Dr. Asad Waqar Malik has published 90 research articles & conference papers having a citation count of 1695, carried out 0 projects and filed 1 intellectual property.

Qualifications

PhD in Parallel And Distributed Simulation NUST, Islamabad , Pakistan	2005 - 2012
MS in Parallel And Distributed Simulation NUST, Islamabad , Pakistan	2003 - 2005
BS in Computer Science Hamdard University , Pakistan	1999 - 2003
F.Sc in Gen science FBISE, Islamabad , Pakistan	1997 - 1999
Matric (SSC) in Science FBISE, Islamabad , Pakistan	1995 - 1997
Experience	
Associate Professor School of Electrical Engineering and Computer Science	2023- Present
Associate Professor School of Electrical Engineering and Computer Science	2020 - 2023
Assistant Professor School of Electrical Engineering and Computer Science	2012 - 2020
Senior Lecturer University of Malaya , Kuala lumpur	2019 - 2020
Research Scholar North Dakota State University , Fargo, USA	2014 - 2014
Member Technical Center for Advanced Research in Engineering , G-5, ISLAMABAD	2009 - 2012
Visiting Scholar Georgia Tech , Atlanta, USA	2007 - 2008
Awards	

Higher Education Comm.

HEC IRSIP program

Research Articles

DRIFTNET-EnVACK: Adaptive Drift Detection in Cloud Data Streams with Ensemble Variational Auto- encoder Featuring Contextual Network Tajwar Mehmood Seemab Latif Rabia Latif Hammad Majeed Asad Waqar Malik IEEE Access, Volume 12, Pages 80020-80034 Impact Factor: 3.400 Quartile: 2	2024
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LSTMDD: an optimized LSTM-based drift detector for concept drift in dynamic cloud computing Tajwar Mehmood Seemab Latif Nor Shahida Mohd Jamail Asad Waqar Malik Rabia Latif PeerJ Computer Science, Volume 10, Article Number e1827 Impact Factor: 3.8 Quartile: 2 Citations: 3 DOI: https://doi.org/10.7717/peerj-cs.1827	2024
Mapping smart farming: Addressing agricultural challenges in data-driven era Dongyang Huo Asad Waqar Malik Sri Devi Ravana Anis Ur Rahman Ismail Ahmedy Renewable and Sustainable Energy Reviews, Volume 189, Part A, Article Number 113858 Impact Factor: 15.9 Quartile: 1 Citations: 52 DOI: 10.1016/j.rser.2023.113858	2024
Predicting Device Anomalous Condition in a Collaborated Industrial Environment Unaiza Alvi Asad Waqar Malik Anis Ur Rahman Muazam Ali Khan Samee U. Khan IEEE Transactions on Industrial Informatics, Volume 20, Issue 1, Pages 390-398 Impact Factor: 12.3 Quartile: 1 DOI: 10.1109/TII.2023.3262815	2024
Clustering-based re-routing framework for network traffic congestion avoidance on urban vehicular roads Muhammad Ali Asad Waqar Malik Anis Ur Rahman The Journal of Supercomputing, Volume 79, Issue 18, Pages 21144-21165 Impact Factor: 3.3 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1007/s11227-023-05455-1	2023
Airborne Computing: A Toolkit for UAV-Assisted Federated Computing for Sustainable Smart Cities Kadhim Hayawi Zahid Anwar Asad Waqar Malik Zouheir Trabelsi IEEE Internet of Things Journal, Volume 10, Issue 21, Pages 18941-18950 Impact Factor: 10.6 Quartile: 1 Citations: 8 DOI: 10.1109/JIOT.2023.3292308	2023
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SUDV: Malicious fog node management framework for software update dissemination in connected vehicles Nadia Kalsoom Asad Waqar Malik Anis Ur Rahman Muhammad Ahsan Arsalan Ahmad The Journal of Supercomputing, Volume:79, Issue:4, Page:4534-4555 Impact Factor: 3.3 Quartile: 2 DOI: https://doi.org/10.1007/s11227-022-04829-1	2023
Over-the-air software-defined vehicle updates using federated fog environment Asad Waqar Malik Anis Ur Rahman Arsalan Ahmad Max Mauro Dias Santos IEEE Transactions on Network and Service Management, Volume 19, Issue 4, Pages 5078-5089 Impact Factor: 4.758 Quartile: 2 Citations: 26 DOI: 10.1109/TNSM.2022.3181027	2022
An analysis of zero-trust architecture and its cost-effectiveness for organizational security Zillah Adahman Asad Waqar Malik Zahid Anwar Computers and Security, Volume 122, Article Number 102911 Impact Factor: 5.105 Quartile: 2 Citations: 26 DOI: https://doi.org/10.1016/j.cose.2022.102911	2022

Mobility-aware hierarchical fog computing framework for Industrial Internet of Things (IIoT) Tariq Qayyum Zouheir Trabelsi Asad Waqar Malik Kadhim Hayawi Journal of Cloud Computing, Volume 11, Issue 1, Article Number 72 Impact Factor: 3.418 Quartile: 2 Citations: 21 DOI: https://doi.org/10.1186/s13677-022-00345-y	2022
On Collective Intellect for Task Offloading in Vehicular Fog Paradigm Balawal Shabir Anis Ur Rahman Asad Waqar Malik Muazzam A. Khan IEEE Access, Volume 10, Pages 101445-101457 Impact Factor: 3.9 Quartile: 2 Citations: 6 DOI: 10.1109/ACCESS.2022.3208243	2022
Do Charging Stations Benefit from Cryptojacking? A Novel Framework for Its Financial Impact Analysis on Electric Vehicles Asad Waqar Malik Zahid Anwar Energies, Volume 15(16), Article Number 5773 Impact Factor: 3.252 Quartile: 3 Citations: 4	2022
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A novel approach for heart disease prediction using strength scores with significant predictors Armin Yazdani Kasturi Dewi Varathan Asad Waqar Malik Wan Azman Wan Ahmad Yin Kia Chiam Yin Kia Chiam BMC Medical Informatics and Decision Making, Volume 21, Article Number 194 Impact Factor: 3.298 Quartile: 3 Citations: 69	2021

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Arslan Qadeer Asad Waqar Malik Anis-ur-Rahman Mian Hamayun Arsalan Ahmad

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2019

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Locality-aware process placement for parallel and distributed simulation in cloud data centers Saad Zaheer Asad Waqar Malik Anis-ur-Rahman Safdar Abbas Khan Journal of Supercomputing, Volume 75, Issue 11, Pages 7723-7745 Impact Factor: 2.469 Quartile: 2 Citations: 10 DOI: 10.1007/s11227-019-02973-9	2019
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A machine learning framework for investigating data breaches based on semantic analysis of adversary's attack patterns in threat intelligence repositories Umara Noor Zahid Anwar Asad Waqar Malik Sharifullah Khan Shahzad Saleem Future Generation Computer Systems, Volume 95,Pages 467-487 Impact Factor: 6.125 Quartile: 1 Citations: 50 DOI: 10.1016/j.future.2019.01.022	2019
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Big Data in Motion: A Vehicle-Assisted Urban Computing Framework for Smart Cities Murk Asad Waqar Malik Imran Mahmood Nadeem Ahmed Zahid Anwar IEEE Access, Volume 7 Pages 55951-55965 Impact Factor: 3.745 Quartile: 1 Citations: 24 DOI: 10.1109/ACCESS.2019.2913150	2019
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Detection and Mitigation of Congestion in SDN enabled data centre Networks: A Survey Taimur Hafeez Nadeem Ahmed Bilal Ahmed Asad Waqar Malik IEEE Access, Volume 6, Pages 1730-1740 Impact Factor: 3.557 Quartile: 1 Citations: 43 DOI: 10.1109/ACCESS.2017.2780122	2017
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Extraction and Analysis of RPE layer from OCT Images for Detection of Age Related Macular

2018 IEEE 20th International Conference on e-Health Networking, Applications and Services (Healthcom), res.country(56,)

2018 Third International Conference on Fog and Mobile Edge Computing (FMEC), res.country(68,) Citations: N/A DOI: 10.1109/FMEC.2018.8364068 **Crowdsourced System to Report Traffic Violations** 2018 Maryam Jameela Hammad Afzal Khawar Khurshid Asad Wagar Malik 4th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS), res.country(183,) Citations: N/A DOI: 10.5220/0006680303150322 Crowdsourced System to Report Traffic Violations RoadCop: Bi-Modular System 2018 Maryam Jameela Hammad Afzal Khawar Khurshid Asad Wagar Malik 4th International Conference on Vehicle Technology and Intelligent Transport Systems, res.country(183,) Citations: N/A DOI: 10.5220/0006680303150322 Optimization of Decision Support System based on Three-Stage Threat Evaluation and Resource 2017 Management Afshan Naseem Shoab Ahmed Khan Asad Waqar Malik IEEE International Conference on Industrial Engineering and Engineering Management, res.country(197,) Citations: N/A DOI: 10.1109/IEEM.2017.8289950 Crash Me Inside The Cloud: A Fault Resilient Framework for Discrete Event Simulation 2017 Asad W. Malik Imran Mahmood 2017 SUMMER SIMULATION MULTI-CONFERENCE, res.country(233,) Citations: N/A DOI: N/A Classification of Vessels as Arteries Verses Veins Using Hybrid Features for Diagnosis of Hypertensive 2016 Retinopathy Samra Irshad Muhammad Ahmad M. Usman Akram Asad Wagar Malik Sarmad Abbas IEEE International Conference on Imaging Systems and Techniques (IST), res.country(88,) DOI: 10.1109/IST.2016.7738272 Energy consumption of traditional simulation protocol over SmartPhones: an empirical study (WIP) 2016 Asad W. Malik Imran Mahmood Aakash Parkash Summer Computer Simulation Conference (SCSC '16), res.country(38,) Citations: N/A DOI: https://dl.acm.org/citation.cfm?id=3015597 Real-Time Decision Support System for Resource Optimization & Management of Threat Evaluation 2014 and Weapon Assignment Engineering in Air Defence Afshan Naseem Shoab A.Khan Asad Waqar Malik 2014 IEEE International Conference on Industrial Engineering and Engineering Management, res.country(157,) Citations: N/A DOI: 10.1109/IEEM.2014.7058701 Distributed Autonomous System Based Design Technique to Enhance Synchronization Productivity in 2008 **Simulations** Asad Waqar Malik Shoab Ahmad Khan AMS 2008 - 2nd Asia International Conference on Modelling & Simulation, res.country(157,) Citations: N/A DOI: 10.1109/AMS.2008.18 Context Aware Network Enabled Distributed Modeling and Simulation Framework 2007 Asad Waqar Malik Sulieman Khan SHOAIB AHMED KHAN Asia International Conference on Modelling & Simulation (AMS'07), res.country(217,) Citations: N/A

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Book Chapters

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