

Anis Ur Rahman

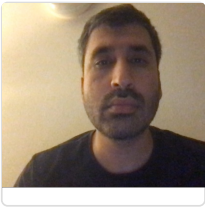
Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. Anis Ur Rahman is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Anis Ur Rahman has a PhD in Visual Perception. Dr. Anis Ur Rahman has published 46 research articles & conference papers having a citation count of 657, carried out 0 projects and filed 1 intellectual property.

PhD in Visual Perception	2009 - 2013
Université Grenoble Alpes (UGA) , France	
MS in Informatics	2008 - 2009
Université Joseph Fourier (Grenoble I) , France	
BS in Computer Science	2003 - 2007
Gomal University , Pakistan	

Associate Professor	2022- Present
School of Electrical Engineering and Computer Science	
Associate Professor	2021 - 2022
School of Electrical Engineering and Computer Science	
Assistant Professor	2014 - 2021
School of Electrical Engineering and Computer Science	
Assistant Professor	2013 - 2014
School of Electrical Engineering and Computer Science	
Research Fellow	2019 - 2020
Universiti Malaya , Universiti Malaya, Kuala Lumpur	

Professional Memberships

IEEE

Mapping smart farming: Addressing agricultural challenges in data-driven era	2024
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	
Predicting Device Anomalous Condition in a Collaborated Industrial Environment	2024
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	
Clustering-based re-routing framework for network traffic congestion avoidance on urban vehicular roads	2023
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	
SUDV: Malicious fog node management framework for software update dissemination in connected vehicles <i>Nadia Kalsoom Asad Waqar Malik Anis Ur Rahman Muhammad Ahsan Arsalan Ahmad</i> <i>The Journal of Supercomputing</i> , 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 <i>Asad Waqar Malik Anis Ur Rahman Arsalan Ahmad Max Mauro Dias Santos</i> <i>IEEE Transactions on Network and Service Management</i> , Volume 19, Issue 4, Pages 5078-5089 Impact Factor: 4.758 Quartile: 2 Citations: 26 DOI: 10.1109/TNSM.2022.3181027	2022
On Collective Intellect for Task Offloading in Vehicular Fog Paradigm <i>Balawal Shabir Anis Ur Rahman Asad Waqar Malik Muazzam A. Khan</i> <i>IEEE Access</i> , Volume 10, Pages 101445-101457 Impact Factor: 3.9 Quartile: 2 Citations: 6 DOI: 10.1109/ACCESS.2022.3208243	2022
Adaptive Learning-based Vehicle-to-vehicle Opportunistic Resource Sharing Framework <i>Arpita Chopra Anis U. Rahman Asad Waqar Malik Sri Devi Ravana</i> <i>IEEE Internet of Things Journal</i> , Volume 9, Issue 14, Pages 12497-12504 Impact Factor: 10.238 Quartile: 1 Citations: 6 DOI: 10.1109/JIOT.2021.3137264	2022
Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment <i>Sarah Iqbal Rafidah MD Noor Asad Waqar Malik Anis U. Rahman</i> <i>IEEE Internet of Things</i> , Volume 8, Issue 19, Pages 14746-14755 Impact Factor: 9.471 Quartile: 1 Citations: 23 DOI: 10.1109/JIOT.2021.3071562	2021
Real-time adaptive object detection and tracking for autonomous vehicles <i>Joao Eduardo Hoffmann Hilkija Gaius Tosso Max Mauro Dias Santos Joao Francisco Justo Asad Waqar Malik Anis Ur Rahman</i> <i>IEEE Transactions on Intelligent Vehicles</i> , Volume 6, Issue 3, Pages 450-459 Impact Factor: 5.009 Quartile: 1 Citations: 48 DOI: 10.1109/TIV.2020.3037928	2021
Towards Distributed Heterogeneous Simulation using Internet of Things <i>Muhammad Haseeb Asad Waqar Malik Anis Ur Rahman Mian Muhammad Hamayun</i> <i>IEEE Internet of Things Journal</i> , Volume 6, Issue 6, Pages 10472-10482 Impact Factor: 10.238 Quartile: 1 Citations: 1 DOI: 10.1109/JIOT.2019.2939361	2021
Symbiotic robotics network for efficient task offloading in smart industry <i>Asad Waqar Malik Anis-ur-Rahman Muhammad Ali Max Mauro Santos</i> <i>IEEE Transactions on Industrial Informatics</i> , Volume 17, Issue 7, Pages 4594-4601 Impact Factor: 11.648 Quartile: 1 Citations: 26 DOI: 10.1109/TII.2020.3032238	2021
On-demand multi-hop forwarding for sustainable vehicular data transfer network <i>Ayoub El Bendali Anis Ur Rahman Asad Waqar Malik Muazzam Ali Khan Sri Devi Ravana</i> <i>International Journal of Distributed Sensor Networks</i> , Volume 17(5), Pages 1-13 Impact Factor: 1.938 Quartile: 3 Citations: 1 DOI: https://doi.org/10.1177%2F15501477211015147	2021
Time-bound single-path opportunistic forwarding in disconnected industrial environments <i>Saad Kabbaj Anis-ur-Rahman Asad Waqar Malik Asif Iqbal Baba Sri Devi Ravana</i> <i>Vehicular communication</i> , Volume 27, Article Number 100302 Impact Factor: 8.373 Quartile: 1 Citations: 7 DOI: https://doi.org/10.1016/j.vehcom.2020.100302	2021
Modeling, simulation and forecasting of wind power plants using agent-based approach <i>Imran Mahmood Anis-ur-Rahman Mahe Mobeen Shahzad Younis Asad Waqar Malik Muhammad Moazam Fraz Kafait Ullah</i>	2020

Impact Factor: 9.297 | **Quartile:** 1 | **Citations:** 15

DOI: <https://doi.org/10.1016/j.jclepro.2020.124172>

An efficient indexing framework for data dissemination in wireless sensor networks

2020

Hazem Jihad Badarneh Ali Mohammed Mansoor Sri Devi Ravana Anis-ur-Rahman

Computers & Electrical Engineering, Volume 87, Article Number 106777

Impact Factor: 3.818 | **Quartile:** 2 | **Citations:** 4

DOI: [10.1016/j.compeleceng.2020.106777](https://doi.org/10.1016/j.compeleceng.2020.106777)

On-demand resource provisioning for vehicular networks using flying fog

2020

Naman Madan Sri devi Naman Madan Asad Waqar Malik Anis-ur-Rahman Sri devi

Vehicular Communication, Volume 25, Article Number 100252

Impact Factor: 6.910 | **Quartile:** 1 | **Citations:** 27

DOI: <https://doi.org/10.1016/j.vehcom.2020.100252>

An affect-based classification of emotions associated with images of food

2020

Yusra Tahir Anis-ur-Rahman Sri Devi Ravana

Journal of Food Measurement and Characterization, Pages 1-12

Impact Factor: 2.431 | **Quartile:** 3 | **Citations:** 3

DOI: <https://doi.org/10.1007/s11694-020-00650-7>

Context-aware opportunistic computing in vehicle-to-vehicle networks

2020

Anis-ur-Rahman Asad Waqar Malik Vishwani Sati Arpita Chopra Sri Devi Ravan

Vehicular Communication, Volume 24, Article Number 100236

Impact Factor: 6.910 | **Quartile:** 1 | **Citations:** 37

DOI: <https://doi.org/10.1016/j.vehcom.2020.100236>

Toward scalable cloud data center simulation using high-level architecture

2020

Bakhtawar Elahi Asad Waqar Malik Anis-ur-Rahman Muazam Ali Khan Khattak

Software: Practice and Experience, Volume 50, Issue 6, Pages 827-843

Impact Factor: 2.028 | **Quartile:** 2 | **Citations:** 8

DOI: [10.1002/spe.2769](https://doi.org/10.1002/spe.2769)

MedCloud: Cloud-based disease surveillance and information management system

2020

Asad Waqar Malik Anis-ur-Rahman Muhammad Sohail Iqbal Paul Robert Cleary Adnan Bashir Aamer Ikram

IEEE Access, Volume 8, Pages 81271 - 81282

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 4

DOI: [10.1109/ACCESS.2020.2990967](https://doi.org/10.1109/ACCESS.2020.2990967)

Toward Sustainable Micro-Level Fog-Federated Load Sharing in Internet of Vehicles

2020

Zeseya Sharmin Asad Waqar Malik Anis-ur-Rahman Rafidah Md Noor Zeseya Sharmin Rafidah Md Noor

IEEE Internet of Things Journal, Volume 7, No. 4, Pages 3614-3622

Impact Factor: 9.471 | **Quartile:** 1

DOI: [10.1109/JIOT.2020.2973420](https://doi.org/10.1109/JIOT.2020.2973420)

Leveraging fog computing for sustainable smart farming using distributed simulation

2020

Asad Waqar Malik Tariq Qayyum Sri Devi Ravana Anis-ur-Rahman Tariq Qayyum Sri Devi Ravana

IEEE Internet of Things Journal, Volume: 7, Issue: 4, Pages 3300-3309

Impact Factor: 9.471 | **Quartile:** 1 | **Citations:** 46

DOI: [10.1109/JIOT.2020.2967405](https://doi.org/10.1109/JIOT.2020.2967405)

Blockchain-Based Reputation Management for Task Offloading in Micro-Level Vehicular Fog Network

2020

Sarah Iqbal Asad Waqar Malik Rafidah Md Noor Sarah Iqbal Anis-ur-Rahman Rafidah Md Noor

IEEE Access, Volume 8, Pages 52968 - 52980

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 47

DOI: [10.1109/ACCESS.2020.2979248](https://doi.org/10.1109/ACCESS.2020.2979248)

Sustainable vehicle-assisted edge computing for big data migration in smart cities

2020

Maria Kanwal Anis-ur-Rahman Muhammad Shahzad Maria Kanwal Asad Waqar Malik Imran Mahmood

IEEE Internet of Things Journal, Volume: 7, Issue: 3, Pages 1857-1871

Impact Factor: 9.471 | **Quartile:** 1 | **Citations:** 14

DOI: [10.1109/JIOT.2019.2957127](https://doi.org/10.1109/JIOT.2019.2957127)

Crowdfix: An Eyetracking Dataset of Real Life Crowd Videos

2019

Memoona Tahira Sobas Mehboob Anis-ur-Rahman Memoona Tahira Sobas Mehboob Omar Arif

<i>IEEE Access</i> , Volume 7, Pages 179002-179009	
Impact Factor: 3.745 Quartile: 1 Citations: 1	
DOI: 10.1109/ACCESS.2019.2956840	
Congestion avoidance in vehicular networks: A contemporary survey	2019
<i>Balawal Shabir Muazzam Ali Khan Anis-ur-Rahman Asad Waqar Malik Abdul Wahid</i>	
<i>IEEE Access</i> , Volume 7, Pages 173196-173215	
Impact Factor: 3.745 Quartile: 1 Citations: 28	
DOI: DOI: 10.1109/ACCESS.2019.2955142	
Virtual Infrastructure Orchestration For Cloud Service Deployment	2019
<i>Arslan Qadeer Asad Waqar Malik Anis-ur-Rahman Mian Hamayun Arsalan Ahmad</i>	
<i>Computer Journal</i> , Pages 1-13	
Impact Factor: 1.077 Quartile: 3 Citations: 6	
DOI: 10.1093/comjnl/bxz125	
Exploiting cooperative sensing for accurate target tracking in industrial Internet of things	2019
<i>Muneeb A Khan Muazzam A Khan Anis-ur-Rahman Asad Waqar Malik Safdar Abbas Khan</i>	
<i>International Journal of Distributed Sensors Network</i> , Volume: 15, Issue: 12, Article Number: 1550147719892203	
Impact Factor: 1.613 Quartile: 4 Citations: 12	
DOI: 10.1177/1550147719892203	
A vehicular network–based intelligent transport system for smart cities	2019
<i>Tayyaba Zaheer Muhammad Moazam Fraz Asad Waqar Malik Ayesha Zahir Anis-ur-Rahman</i>	
<i>International Journal of Distributed Sensor Networks.</i> , Volume: 15, issue: 11, Article Number: 1550147719888845	
Impact Factor: 1.151 Quartile: 4 Citations: 21	
DOI: https://doi.org/10.1177/1550147719888845	
Locality-aware process placement for parallel and distributed simulation in cloud data centers	2019
<i>Saad Zaheer Asad Waqar Malik Anis-ur-Rahman Safdar Abbas Khan</i>	
<i>Journal of Supercomputing</i> , Volume 75, Issue 11, Pages 7723-7745	
Impact Factor: 2.469 Quartile: 2 Citations: 10	
DOI: 10.1007/s11227-019-02973-9	
Position-based emergency message dissemination for Internet of vehicles	2019
<i>Muhammad Ali Asad Waqar Malik Anis U Rahman Muhammad Sohail Iqbal Mian Hamayun</i>	
<i>International Journal of Distributed Sensors Network</i> , Volume: 15, Issue: 7	
Impact Factor: 1.151 Quartile: 4 Citations: 47	
DOI: 10.1177/1550147719861585	
GPU-accelerated multivariate empirical mode decomposition for massive neural data processing	2019
<i>TAHA MUJAHID ANIS UR RAHMAN MUHAMMAD MURTAZA KHAN</i>	
<i>IEEE Access</i> , Volume 5, Pages 8691-8701	
Impact Factor: 3.745 Quartile: 1 Citations: 10	
DOI: 10.1109/ACCESS.2017.2705136	
Unsupervised video object segmentation using conditional random fields	2019
<i>Asma Hamza Bhatti Asad Anwar Butt Anis Ur Rahman</i>	
<i>Signal Image and Video Processing</i> , Volume: 13 Issue: 1 Pages: 9-16	
Impact Factor: 1.794 Quartile: 3 Citations: 3	
DOI: 10.1007/s11760-018-1322-9	
Time Barrier based Emergency Message Dissemination in Vehicular Ad-hoc Networks	2019
<i>Syed Sarmad Shah Asad Waqar Malik ANIS U. RAHMAN Muhammad Sohail Iqbal SAMEE U. KHAN</i>	
<i>IEEE Access</i> , Volume: 7 Pages: 16494-16503	
Impact Factor: 3.745 Quartile: 1 Citations: 85	
DOI: 10.1109/ACCESS.2019.2895114	
Rethinking the Mini-Map: A Navigational Aid to Support Spatial Learning in Urban Game Environments	2017
<i>Numair Khan Anis ur Rahman</i>	
<i>International Journal of Human–Computer Interaction</i> , NULL	
Impact Factor: 1.259 Quartile: 1 Citations: 26	
DOI: 10.1080/10447318.2017.1418804	
Influence of number, location and size of faces on gaze in video	2014

Conference Proceedings

Task Offloading Using Multi-Armed Bandit Optimization in Autonomous Mobile Robots <i>ANIS UR RAHMAN ASAD WAQAR MALIK HASAN ALI KHATTAK Moayad Aloqaily</i> <i>IEEE INFOCOM 2023 - Conference on Computer Communications Workshops, INFOCOM WKSHPS 2023</i> , res.country(233,) Citations: N/A DOI: 10.1109/INFOCOMWKSHPS57453.2023.10226072	2023
A Reliable Learning Based Task Offloading Framework for Vehicular Edge Computing <i>Balawal Shabbir Asad Waqar Malik ANIS Rahman Muazzam A. Khan ZAHID ANWAR</i> <i>2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2)</i> , res.country(177,) Citations: N/A DOI: 10.1109/ICoDT255437.2022.9787462	2022
Exploiting Class Hierarchies for Large-Scale Scene Classification Using Hybrid Discriminative Approach <i>Mehwish Malik Anis ur Rahman</i> <i>2018 IEEE 18th International Conference on Communication Technology (ICCT)</i> , res.country(48,) Citations: N/A DOI: 10.1109/ICCT.2018.8600200	2018
Large-scale image geo-tagging using affective classification <i>Anis Ur Rahman Muhammad Bilal Khan</i> <i>18th International Conference on Communication Technology</i> , res.country(48,) Citations: N/A DOI: 10.1109/ICCT.2018.8600042	2018
Detection and prevention of Black Hole Attacks in IOT & WSN <i>Muazzam A Khan Jawad Ahmad Asad W. Malik Anis ur Rehman Shoukat Ali</i> <i>2018 Third International Conference on Fog and Mobile Edge Computing (FMEC)</i> , res.country(68,) Citations: N/A DOI: 10.1109/FMEC.2018.8364068	2018
A Framework to Combine Multi-Object Video Segmentation and Tracking <i>Sehr Nadeem Anis Rahman Asad Anwar Butt</i> <i>International Conference on Digital Image Computing: Techniques and Applications</i> , res.country(13,) Citations: N/A DOI: 10.1109/DICTA.2017.8227387	2017
A hybrid approach for fatigue detection and quantification <i>Sughra Razzaq Muhammad Nouman Ahmad Mian M. Hamayun Anis ur Rahman Muhammad Moazam Fraz</i> <i>20th International Multitopic Conference 2017 (INMIC 2017)</i> , res.country(177,) Citations: 3 DOI: 10.1109/INMIC.2017.8289472	2017
Video Segmentation using Spectral Clustering on Superpixels <i>Asma H. Bhatti Anis Rahman Asad A. Butt</i> <i>2016 IEEE International Conference on Image Processing (ICIP)</i> , res.country(233,) Citations: N/A DOI: 10.1109/ICIP.2016.7532481	2016

Book Chapters

Vehicle-assisted framework for delay-sensitive applications in smart cities <i>Tayyaba Zaheer Sarah Iqbal Asad Waqar Malik Anis U. Rahman Zeseya Sharmin</i> In: <i>Book on Communication Technologies for Networked Smart Cities</i> , Chapter 8, Pages 175-199 Citations: N/A	2021
Centralized to Decentralized Social Networks: Factors that Matter <i>Maryam Qamar Mehwish Malik Saadia Batool Sidra Mehmood Asad Waqar Malik Anis-ur-Rahman</i> In: <i>Book on Managing and Processing Big Data in Cloud Computing</i> , Chapter 3, Pages 37-54 Citations: N/A DOI: doi:10.4018/978-1-4666-9767-6.ch003	2016

Editorial Activities

Reviewed Papers for Journals Impact Factor: 2.602	2021
Reviewed Papers for Journals	2021
Reviewed Papers for Journals	2021
Reviewed Papers for Journals	2021
Reviewed Papers for Journals Impact Factor: 3.878	2021
Reviewed Papers for Journals Impact Factor: 1.794	2021
Reviewed Papers for Journals Impact Factor: 1.794	2021
Reviewed Papers for Journals Impact Factor: 1.81	2021
Reviewed Papers for Journals Impact Factor: 1.81	2021
Reviewed Papers for Journals	2021
Reviewed Papers for Journals Impact Factor: 1.813	2020
Reviewed Papers for Journals	2020

Intellectual Property

Copyrights

Over-the-air software-defined vehicle updates using federated fog environment

Status: Filed

2021

Patents

Industrial Designs

Trademarks