

# Javed Iqbal

Associate Professor

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## About

Dr. Javed Iqbal is working as Associate Professor in the Military College of Signals. Dr. Javed Iqbal has a PhD in Internet of things, Future Generation Systems. Dr. Javed Iqbal has published 27 research articles & conference papers having a citation count of 493, carried out 1 projects and filed 0 intellectual property.

<b>PhD in Internet of things, Future Generation Systems</b> Politecnico di Torino , Italy	2012 - 2015
<b>MS in Wireless Networks</b> Blekinge Institute of Technology, Karlskrona, Sweden , Sweden	2007 - 2009
<b>BS in Computer Information</b> UET Peshawar , Pakistan	2001 - 2005

<b>Associate Professor</b> Military College of Signals	2023- Present
<b>Associate Professor</b> University of Engineering and Applied Sciences, Swat , UEAS Kanju Township Swat	2021 - 2023
<b>Associate Professor</b> Sarhad University of Science and IT, Peshawar , Sarhad University Ringroad Hayatabad Peshawar	2019 - 2021
<b>Assistant Professor</b> Sarhad University of Science and IT, Peshawar , Sarhad University Ringroad Hayatabad Peshawar	2012 - 2019
<b>Lecturer</b> Sarhad University of Science and IT, Peshawar , Sarhad University Ringroad Hayatabad Peshawar	2010 - 2012

<b>National Projects</b>	
<b>Smart Solar AgroTech: Low Cost Zigbee Mesh Network</b> Funding Agency: IGNITE Amount: PKR 73,816.00 Status: Completed	2025
<b>International Projects</b>	

<b>Research Articles</b>	
<b>Vigorous technique for augmented lifetime in WSNs</b> Sardar Jaffar Ali Javed Iqbal Faheem Khan Yeon-Kug Moon Scientific Reports , Volume:15, Issue:1, Article Number: 15400 Impact Factor: 3.900   Quartile: 1 DOI: <a href="https://doi.org/10.1038/s41598-025-96830-w">https://doi.org/10.1038/s41598-025-96830-w</a>	2025
<b>Towards variability process model for agile product line configuration engineering</b> Azaz Ahmed Kiani Yaser Hafeez Amber Sarwar Hashmi Javed Iqbal Innovations in Systems and Software Engineering, Pages 1-28	2025

<b>Impact Factor:</b> 1.100   <b>Quartile:</b> 4 <b>DOI:</b> 10.1007/s11334-025-00597-2	
<b>PRIDA-ME: A Privacy-Preserving, Interoperable and Decentralized Authentication Scheme for Metaverse Environment</b> <i>Yawar Abbas Bangash Abdellah Chehri Javed Iqbal Mehmood Ul Hassan Mian Muhammad Waseem Iqbal IEEE Open Journal of the Communications Society</i> , Volume: 6, Pages 493-515 <b>Impact Factor:</b> 6.300   <b>Quartile:</b> 1   <b>Citations:</b> 2 <b>DOI:</b> 10.1109/OJCOMS.2024.3523518	2025
<b>DQQS: Deep Reinforcement Learning-Based Technique for Enhancing Security and Performance in SDN-IoT Environments</b> <i>Zabeehullah Fahim Arif Nauman Ali Khan Javed Iqbal Faten Khalid Karim NISREEN INNAB SAMIH M. MOSTAFA IEEE Access</i> , Volume:12, Page:60568-60587 <b>Impact Factor:</b> 3.4   <b>Quartile:</b> 2   <b>Citations:</b> 12 <b>DOI:</b> 10.1109/ACCESS.2024.3392279	2024
<b>COVID-19 detection and analysis from lung CT images using novel channel boosted CNNs</b> <i>Saddam Hussain Khan Javed Iqbal Syed Agha Hassnain Muhammad Owais Samih M. Mostafa Myriam Hadjouni Amana Mahmoud Expert Systems with Applications</i> , Volume 229, Part A, Article Number 120477 <b>Impact Factor:</b> 7.500   <b>Quartile:</b> 1   <b>Citations:</b> 33 <b>DOI:</b> <a href="https://doi.org/10.1016/j.eswa.2023.120477">https://doi.org/10.1016/j.eswa.2023.120477</a>	2023
<b>A new deep boosted CNN and ensemble learning based IoT malware detection</b> <i>Saddam Hussain Khan Tahani Jaser Alahmadi Wasi Ullah Azizur Rahim Javed Iqbal Hend Khalid Alkahtani Wajdi Alghamdi Alaa Omran Almagrabi Computers and Security</i> , Volume 133, Article Number 103385 <b>Impact Factor:</b> 4.800   <b>Quartile:</b> 1   <b>Citations:</b> 43 <b>DOI:</b> <a href="https://doi.org/10.1016/j.cose.2023.103385">https://doi.org/10.1016/j.cose.2023.103385</a>	2023
<b>Power-Intent Systolic Array Using Modified Parallel Multiplier for Machine Learning Acceleration</b> <i>Kashif Inayat Fahad Bin Muslim Javed Iqbal Syed Agha Hassnain Mohsan Hend Khalid Alkahtani Samih M. Mostafa Sensors</i> , Volume 23, Issue 9, Article Number 4297 <b>Impact Factor:</b> 3.400   <b>Quartile:</b> 2   <b>Citations:</b> 9 <b>DOI:</b> <a href="https://doi.org/10.3390/s23094297">https://doi.org/10.3390/s23094297</a>	2023
<b>An Energy Efficient Local Popularity Based Cooperative Caching for Mobile Information Centric Networks</b> <i>Javed Iqbal Zain ul Abideen Nadia Ali Saddam Hussain Khan Azizur Rahim Ali Zahir Syed Agha Hassnain Mohsan Mohammed H. Alsharif Sustainability</i> , Volume 14, Issue 20, Article Number 13135 <b>Impact Factor:</b> 3.900   <b>Quartile:</b> 2   <b>Citations:</b> 2 <b>DOI:</b> 10.3390/su142013135	2022
<b>Designing and implementation of energy-efficient wireless photovoltaic monitoring system</b> <i>Mahmood Khan Javed Iqbal Muhammad Ali Muhammad Afaq Ali Zahir Nadir Ali Transactions on Emerging Telecommunications Technologies</i> , Volume 33, Issue 2, Article Number e3685 <b>Impact Factor:</b> 3.600   <b>Quartile:</b> 3   <b>Citations:</b> 6 <b>DOI:</b> 10.1002/ett.3685	2022
<b>Performance analysis of vertical handover techniques based on IEEE 802.21: Media independent handover standard</b> <i>Javed Iqbal Murad Khan Muhammad Afaq Amjad Ali Transactions on Emerging Telecommunications Technologies</i> , Volume 32, Issue 7, Article Number e3695 <b>Impact Factor:</b> 3.310   <b>Quartile:</b> 2   <b>Citations:</b> 7 <b>DOI:</b> <a href="https://doi.org/10.1002/ett.3695">https://doi.org/10.1002/ett.3695</a>	2021
<b>Design and optimization of bowtie nanoantenna for electromagnetic field enhancement</b> <i>Usman Khan Khalil Waqas Farooq Javed Iqbal Syed Zain Ul Abideen Kazmi Adnan Daud Khan Anees ur Rehman Saba Ayub European Physical Journal Plus</i> , Volume:136, Article Number:754 <b>Impact Factor:</b> 3.758   <b>Quartile:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.1140/epjp/s13360-021-01702-7">https://doi.org/10.1140/epjp/s13360-021-01702-7</a>	2021
<b>Energy-efficient auto-scaling of virtualized network function instances based on resource execution pattern</b> <i>Ihtesham Ul Islam Asif Mehmood Afaq Muhammad Talha Ahmed Khan Javier Jose Diaz Rivera Javed Iqbal Wang-Cheol Song Computers &amp; Electrical Engineering</i> , Volume 88, Article Number 106814	2020

<b>Impact Factor: 3.818   Quartile: 2   Citations: 13</b> <b>DOI:</b> <a href="https://doi.org/10.1016/j.compeleceng.2020.106814">https://doi.org/10.1016/j.compeleceng.2020.106814</a>	
<b>Optimizing coordinated control of distributed energy storage system in microgrid to improve battery life</b> <i>Asfand Yar Ali Abdul Basit Tanvir Ahmad Affaq Qamar Javed Iqbal</i> <i>Computers &amp; Electrical Engineering</i> , Volume 86, Article Number 106741 <b>Impact Factor: 3.818   Quartile: 2   Citations: 36</b> <b>DOI:</b> <a href="https://doi.org/10.1016/j.compeleceng.2020.106741">https://doi.org/10.1016/j.compeleceng.2020.106741</a>	2020
<b>A novel power scheduling mechanism for islanded DC microgrid cluster</b> <i>Abdul Wahid Javed Iqbal Affaq Qamar Salman Ahmed Abdul Basit Haider Ali Omar M. Aldossary</i> <i>Sustainability</i> , Volume 12, Issue 17, Article Number 6918 <b>Impact Factor: 3.251   Quartile: 2   Citations: 7</b> <b>DOI:</b> <a href="https://doi.org/10.3390/su12176918">10.3390/su12176918</a>	2020
<b>An efficient SDN-based LTE-WiFi spectrum aggregation system for heterogeneous 5G networks</b> <i>Khizar Abbas Muhammad Afaq Talha Ahmed Khan Adeel Rafiq Javed Iqbal Ihtesham Ul Islam Wang-Cheol Song</i> <i>Transactions on Emerging Telecommunications Technologies</i> , Pages 1-16, Article Number e3943. <b>Impact Factor: 2.638   Quartile: 3   Citations: 36</b> <b>DOI:</b> <a href="https://doi.org/10.1002/ett.3943">https://doi.org/10.1002/ett.3943</a>	2020
<b>Big Data Processing using Internet of Software Defined Things in Smart Cities</b> <i>Murad Khan Javed Iqbal Muhammad Talha Muhammad Arshad Muhammad Diyan Kijun Han</i> <i>International Journal of Parallel Programming</i> , Volume 48, Issue 2, Pages 178-191 <b>Impact Factor: 1.382   Quartile: 3   Citations: 18</b> <b>DOI:</b> <a href="https://doi.org/10.1007/s10766-018-0573-y">10.1007/s10766-018-0573-y</a>	2020
<b>Minimization of total harmonic distortions of cascaded H-bridge multilevel inverter by utilizing bio inspired AI algorithm</b> <i>Muhammad Salman Inzamam Ul Haq Tanvir Ahmad Haider Ali Affaq Qamar Abdul Basit Murad Khan Javed Iqbal</i> <i>Eurasip Journal on Wireless Communications and Networking</i> , Volume 2020, Issue 1, Article Number 66 <b>Impact Factor: 2.455   Quartile: 3   Citations: 20</b> <b>DOI:</b> <a href="https://doi.org/10.1186/s13638-020-01686-5">10.1186/s13638-020-01686-5</a>	2020
<b>Towards 5G network slicing for vehicular ad-hoc networks: An end-to-end approach</b> <i>Muhammad Afaq Javed Iqbal Talha Ahmed Ihtesham Ul Islam Murad Khan Muhammad Sohail Khan</i> <i>Computer Communications</i> , Volume 149, Pages 252-258 <b>Impact Factor: 3.167   Quartile: 2   Citations: 39</b> <b>DOI:</b> <a href="https://doi.org/10.1016/j.comcom.2019.10.018">https://doi.org/10.1016/j.comcom.2019.10.018</a>	2020
<b>Energy loss prediction in nonoriented materials using machine learning techniques: A novel approach</b> <i>Mahmood Khan Afaq Muhammad Ihtesham Ul Islam Javed Iqbal Muhammad Shoaib</i> <i>Transactions on Emerging Telecommunications Technologies</i> , Article Number e3797, Pages 1-7 <b>Impact Factor: 1.594   Quartile: 3</b> <b>DOI:</b> <a href="https://doi.org/10.1002/ett.3797">https://doi.org/10.1002/ett.3797</a>	2019
<b>Wireless sensor network design for smart grids and Internet of things for ambient living using cross-layer techniques</b> <i>Jaffar Ali Javed Iqbal Shabbir Majeed Imran Ahmed Mughal Awais Ahmad Salman Ahmad</i> <i>International Journal of Distributed Sensor Networks</i> , Volume 15, Issue 7, Pages 1-10 <b>Impact Factor: 1.151   Quartile: 2</b> <b>DOI:</b> <a href="https://doi.org/10.1177/155014771986220">10.1177/155014771986220</a>	2019
<b>Comparison of Spectral Efficiency Techniques in Device-to-Device Communication for 5G</b> <i>Javed Iqbal Muhammad A. Iqbal Awais Ahmad Murad Khan Affaq Qamar Kijun Han</i> <i>IEEE Access</i> , Volume 7, Pages 57440-57449 <b>Impact Factor: 3.745   Quartile: 1   Citations: 28</b> <b>DOI:</b> <a href="https://doi.org/10.1109/ACCESS.2019.2914486">10.1109/ACCESS.2019.2914486</a>	2019
<b>A generic internet of things architecture for controlling electrical energy consumption in smart homes</b> <i>Javed Iqbal Murad Khan Muhammad Talha Haleem Farman Bilal Jan Arshad Muhammad Hasan Ali Khattak</i> <i>Sustainable Cities and Society</i> , Volume 43, Pages 443-450 <b>Impact Factor: 4.624   Quartile: 1   Citations: 106</b> <b>DOI:</b> <a href="https://doi.org/10.1016/j.scs.2018.09.020">10.1016/j.scs.2018.09.020</a>	2018

<b>Multi-criteria based zone head selection in Internet of Things based wireless sensor networks</b> <i>Haleem Farman Bilal Jan Huma Javed Naveed Ahmad Javed Iqbal Mohammad Arshad Shaukat Ali</i> <i>Future Generation Computer Systems</i> , Volume 87, Pages 364-371 <b>Impact Factor:</b> 5.768   <b>Quartile:</b> 1   <b>Citations:</b> 70 <b>DOI:</b> 10.1016/j.future.2018.04.091	2018
<b>Design and Analysis of Self-Healing Tree-Based Hybrid Spectral Amplitude Coding OCDMA System</b> <i>Waqas A. Imtiaz Affaq Qamar Atiq ur rehman Haider Ali Adnan Rashid Chaudhry Javed Iqbal</i> <i>Security and Communication Networks</i> , Volume 2017, Article ID 2524513, 12 pages <b>Impact Factor:</b> 0.904   <b>Quartile:</b> 4   <b>Citations:</b> 4 <b>DOI:</b> 10.1155/2017/2524513	2017

## Conference Proceedings

<b>Framework for improving Software Requirements via Automated Behavior-Driven Development: A Priority-Based Approach *</b> <i>Zainab Yousaf Muhammad Sohail Javed Iqbal Asad Ullah Sumet Mehta</i> <i>2025 International Conference on Communication Technologies, ComTech 2025</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/ComTech65062.2025.11034632	2025
<b>A Novel Design of Multilayered Bowtie Nano-Antenna for SERS Applications</b> <i>Usman Khan Khalil Syed Zain Ul Abideen Kazmi Javed Iqbal Adnan Daud Khan</i> <i>1st International Conference on Electrical, Communication and Computer Engineering, ICECCE 2019</i> , res.country(177,) <b>Citations:</b> 2 <b>DOI:</b> 10.1109/ICECCE47252.2019.8940798	2019
<b>Distributed Cooperative Caching for Wireless Information Centric Networks: Local Request Rate Approach</b> <i>Syed Zain Ul Abideen Kazmi Usman Khan Khalil Javed Iqbal</i> <i>2019 International Conference on Electrical, Communication, and Computer Engineering (ICECCE)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICECCE47252.2019.8940723	2019

## Editorial Activities

<b>IEEE Internet of Things Journal</b> Reviewed Papers for Journals <b>Impact Factor:</b> 8.9	2025
<b>IEEE Access</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.6	2025
<b>IEEE Access</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.7	2025