

Muhammad Abbas

Adjunct Faculty

College of Electrical & Mechanical Engineering

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About

Dr. Muhammad Abbas is working as Adjunct Faculty in the College of Electrical & Mechanical Engineering. Dr. Muhammad Abbas has a PhD in Information System. Dr. Muhammad Abbas has published 50 research articles & conference papers having a citation count of 136, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Information System University of Manchester , England	2007 - 2011
MS in nformation System Engineering University of Manchester , United Kingdom	2006 - 2007
BE in Bachelor of Engineering NED UET Karachi , Pakistan	1987 - 1992

Experience

Adjunct Faculty College of Electrical & Mechanical Engineering	2023- Present
Adjunct Faculty College of Electrical & Mechanical Engineering	2020 - 2023
Defence Faculty College of Electrical & Mechanical Engineering	2020 - 2020
Defence Faculty College of Electrical & Mechanical Engineering	2012 - 2020
Faculty NUST/EME , NUST/EME, Rawalpindi	2012 - 2020
Brig Pakistan Army , College of EME	1993- Present

Awards

Tamgha-i-Imtiaz(Military) GHQ	2016
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Professional Memberships

PEC	Since 1993
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Research Projects

National Projects

Duplicate Cleansing (Duplicate record detection and merging) Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Completed	2017
Remote Operated Weapon System (ROWS) Funding Agency: NUST Amount: PKR 300,000.00 Status: Completed	2018

International Projects

Research Articles

Vision Transformer and Language Model based Radiology Report Generation Mashood Mohammad Mohsan Muhammad Usman Akram Ghulam Rasool Norah Saleh Alghamdi Muhammad Abdullah Aamer Baqai Muhammad Abbas IEEE Access , Volume 11, Pages 1814-1824 Impact Factor: 3.476 Quartile: 2 Citations: 30 DOI: 10.1109/ACCESS.2022.3232719	2023
The Impact of Technology Audit on Technology Capabilities in Pakistani Training Institutes Muhammad Abbas Asjad Shahzad Journal of Engineering Management and Competitiveness, Volume 12, Issue 2, Pages 151-164 Impact Factor: N/A DOI: 10.5937/JEMC2202151S	2022
A Framework for Classification of Gabor Based Frequency Selective Bone Radiographs Using CNN Rehan Nemati Farhan Riaz Ali Hassan Saad Rehman Muhammad Ajmal Azad Muhammad Abbas Farhan Hussain Saddam Rubab Arabian Journal of Science and Engineering, Volume 46, Pages 4141-4152 Impact Factor: 2.807 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1007/s13369-021-05339-7	2021
Blood Glucose Level Prediction of Diabetic Type 1 Patients Using Nonlinear Autoregressive Neural Networks Usman Qamar Muhammad Asad Muhammad Abbas Journal of Healthcare Engineering, Volume 2021, Article ID 6611091, 7 pages Impact Factor: 3.822 Quartile: 2 Citations: 15 DOI: https://doi.org/10.1155/2021/6611091	2021
Approximate Proximal Gradient-Based Correlation Filter for Target Tracking in Videos: A Unified Approach Aimal Khan Haris Masood Saad Rehman Farhan Riaz Ali Hassan Muhammad Abbas Arabian Journal for Science and Technology, Volume 44, Issue 11, Pages 9363-9380 Impact Factor: 1.711 Quartile: 2 Citations: 7 DOI: 10.1007/s13369-019-03861-3	2019
Mathematical model based traffic violations identification Fozia Mehboob Muhammad Abbas Abdul Rauf Computational and Mathematical Organization Theory, Volume 25, Pages 302–318 Impact Factor: 1.558 Quartile: 2 Citations: 3 DOI: https://doi.org/10.1007/s10588-018-9264-x	2019
Active contour-based clutter defiance scheme for correlation filters Ahmed Bilal Awan Asim Dilawar Bakhshi Muhammad Abbas Saad Rehman Electronics Letters , Volume 55, Issue 9, Pages 525-527 Impact Factor: 1.316 Quartile: 3 Citations: 4 DOI: 10.1049/el.2018.7955	2019
On the mutual information of relaying protocols Saad Rehman Aimal Khan Muhammad Abbas Ayaz Ahmad Physical Communication , Volume 30, Pages 33-42 Impact Factor: 1.451 Quartile: 3 Citations: 7	2018

DOI: 10.1016/j.phycom.2018.07.005

Trajectory based vehicle counting and anomalous event visualization in smart cities 2018

Fozia Mehboob Muhammad Abbas Richard Jiang Abdul Rauf Shoab Ahmed Khan Saad Rehman

Cluster Computing-The Journal of Networks Software Tools and Applications, Volume: 21 Issue: 1 Pages: 443-452 Special Issue: SI

Impact Factor: 1.851 | **Quartile:** 2 | **Citations:** 13

DOI: 10.1007/s10586-017-0885-5

Self-Organizing Hierarchical Particle Swarm Optimization of Correlation Filters for Object Recognition 2017

Sara Tehsin Saad Rehman Muhammad Omer Bin Saeed Farhan Riaz Ali Hassan Muhammad Abbas Rupert Young Mohammad S. Alam

IEEE Access , Volume 5, Pages 24495-24502

Impact Factor: 3.557 | **Quartile:** 1 | **Citations:** 24

DOI: 10.1109/ACCESS.2017.2762354

Glyph-based video visualization on Google Map for surveillance in smart cities 2017

Fozia Mehboob Muhammad Abbas Shoab A. Khan Richard Jiang Ahmed Bouridane Saad Rehman

EURASIP Journal on Image and Video Processing, Article Number: 28

Impact Factor: 1.737 | **Quartile:** 2 | **Citations:** 15

DOI: 10.1186/s13640-017-0175-4

SAP-ERP Implementation: Change Management Model using Qualitative Approach 2016

Muhammad Umar Nawar Khan Mujtaba Hassan Agha Muhammad Abbas

International Journal of Computer Science and Network Security, Volume 16, Issue 6, Pages 9-13

Impact Factor: -

DOI: <https://www.semanticscholar.org/paper/SAP-ERP-Implementation-%3A-Change-Management-Model-Umar-Khan/edd3fbc1bfc6700103402e85a8100555c2b7e843>

Exploring the Factors Affecting ERP Implementation Quality 2016

M. Umar Nawar Khan Muhammad Hassan Agha Muhammad Abbas

Journal of Quality and Technology Management, Volume 12, Issue 1, Pages 137 - 155

Impact Factor: 0

DOI: http://pu.edu.pk/images/journal/iqtm/PDF-FILES/06-Exploring_jun_16.pdf

A Logic Based Framework for the Management of Changing Software Requirement 2015

Umm-e-Habiba Syed Mohtashim Abbas Bokhari Muhammad Abbas

Lecture Notes on Software Engineering, Volume 3, Issue 4, Pages 275-278

Impact Factor: 0

DOI: 10.7763/LNSE.2015.V3.203

Limitations of Service Oriented Architecture and its Combination with Cloud Computing 2015

Syed Mohtashim Abbas Bokhari Farooque Azam Muhammad Abbas Umm-e-Habiba

Bahria University Journal of Information & Communication Technologies, Volume 8, Issue 1

Impact Factor: 0

DOI: <https://www.bahria.edu.pk/ojs/index.php/bujict/article/view/86>

Three Tier Unified Process Model for Requirement Negotiations and Stakeholder Collaborations 2012

Muhammad Ashraf Khan Niazi Dr. Muhammad Abbas Muhammad Shahzad

International Journal of Advancements in Research & Technology, Volume 1, Issue 6

Impact Factor: 0

DOI:

https://www.researchgate.net/publication/258650620_Three_Tier_Unified_Process_Model_for_Requirement_Negotiations_and_Stakeholder_Collaborations

Conference Proceedings

Image Steganography using Least Significant Bit (LSB) – A Systematic Literature Review 2022

Muhammad Rashid Farooque Azam Muhammad Abbas Yawar Rasheed Muhammad Waseem Anwar Adnan Aslam Saud S. Alotaibi

2022 2nd International Conference on Computing and Information Technology (ICCIIT), res.country(233,)

Citations: 16

DOI: 10.1109/ICCIT52419.2022.9711628

A Model Driven Framework for Efficient Bandwidth Allocation in Fog Computing Using Priority Algorithm 2022

Mehwish Naz Muhammad Rashid Farooque Azam Muhammad Abbas Yawar Rasheed Mohammed H Sinky Muhammad Waseem Anwar

2022 2nd International Conference on Computing and Information Technology (ICCIIT), res.country(233,)

Citations: N/A

DOI: 10.1109/ICCIT52419.2022.9711637	
A Novel Model Driven Framework for Image Enhancement and Object Recognition	2020
Wasi Haider Butt Yawar Rasheed Muhammad Abbas Muhammad Waseem Anwar Urooj Fatima International Conference on Information and Software Technologies, ICIST 2020, res.country(132,)	
Citations: N/A	
DOI: 10.1007/978-3-030-59506-7_2	
SimFiller: Similarity-Based Missing Values Filling Algorithm	2018
Fateh ur Rehman Muhammad Abbas Sajjad Murtaza Wasi Haider Butt Usman Qamar Saad Rehman 13th International Conference on Digital Information Management, res.country(57,)	
Citations: N/A	
DOI: N/A	
Object Recognition Using SVM Based Bag of Combined Features,	2018
Brig. Muhammad Abbas Fozia Mehboob Abdul Rauf Science and Information Conference 2018 , res.country(231,)	
Citations: N/A	
DOI: 10.1007/978-3-030-01174-1_37	
Comparative study of local binary pattern and its shifted variant for osteoporosis identification	2018
Hina Ajmal Farhan Hussain Muhammad Abbas Saad Rehman Aimal Khan Rupert Young Mohammad S. Alam SPIE Defense + Security 2018 Conference, res.country(233,)	
Citations: N/A	
DOI: 10.1117/12.2304721	
Implementation of Scrum in Pakistan's IT Industry	2018
Bilal Maqbool Fateh Ur Rehman Muhammad Abbas Saad Rehman 2nd International Conference on Management Engineering, Software Engineering and Service Sciences, res.country(48,)	
Citations: N/A	
DOI: 10.1145/3180374.3181336	
Implementation of Software Testing Practices in Pakistan's Software Industry	2018
Bilal Maqbool Fateh Ur Rehman Muhammad Abbas Saad Rehman ACM-ICMSS 2018 : ACM--2018 2nd International Conference on Management Engineering, Software Engineering and Service Sciences (ICMSS 2018)--Ei Compendex , res.country(48,)	
Citations: N/A	
DOI: 10.1145/3180374.3181340	
Evaluation of trust management approaches in wireless sensor networks	2018
Farwa Kazmi Muazzam A. Khan Ayesha Saeed Nazar Abbas Saqib Muhammad Abbas 2018 15th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)	
Citations: N/A	
DOI: 10.1109/IBCAST.2018.8312329	
Numerical investigation of breathing in a long blunt nosed body at supersonic speed	2018
Naveed Akram Emad ud Din M. Arshad Farhan Abbas Ali Abbas Zaidi 15th International Bhurban Conference on Applied Sciences and Technology, res.country(177,)	
Citations: N/A	
DOI: 10.1109/IBCAST.2018.8312290	
Numerical simulation of circulation control airfoil using RANS solver	2018
Ali Abbas Zaidi Janfizza Bukhari 15th International Bhurban Conference on Applied Sciences and Technology, res.country(177,)	
Citations: N/A	
DOI: 10.1109/IBCAST.2018.8312274	
Design and development of low-speed water tunnel	2018
Mujahid Saeed Dr. Emad Uddin Dr. Aamir Mubashar Salim Uddin Zahir Ali Abbas Zaidi 15th International Bhurban Conference Applied Sciences and Technology (IBCAST), res.country(177,)	
Citations: N/A	
DOI: 10.1109/IBCAST.2018.8312288	
Evaluation of Trust Management Approaches in Wireless Sensor Networks	2018
Muazzam Khattak Farwa Kazmi Ayesha Saeed Dr. Nazar Abbas Saqib Dr. Muhammad Abbas 15th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)	

<p>Citations: N/A</p> <p>DOI: 10.1109/IBCAST.2018.8312329</p>	
<p>A Novel Technique for Recognition and Tracking of Moving Objects Based on E-MACH and Proximate Gradient (PG) Filters</p> <p><i>Muazzam Khattak Haris Masood Dr. Saad Rahman Dr. Qaiser Chaudhary Dr. Muhammad Abbas M.Alam2 Rupert Young</i></p> <p><i>20th IEEE International Conference of Computer and Information Technology (ICCIT) , res.country(19,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/ICCITECHN.2017.8281849</p>	2017
<p>A Novel Technique for Recognition and Tracking of Moving Objects based on E-MACH and Proximate Gradient (PG) Filters</p> <p><i>Haris Masood Saad Rehman Muazzam Khan Qaiser Javed Muhammad Abbas Muhammad Alam Rupert Young</i></p> <p><i>20th IEEE International Conference on Computer and Information Technologies, res.country(19,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/ICCITECHN.2017.8281849</p>	2017
<p>FIG based Quality Assurance in Software Product Lines</p> <p><i>Nazish Yousaf Rida Sheikh Muhammad Abbas</i></p> <p><i>2017 International Conference on Frontiers of Information Technology (FIT), res.country(177,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/FIT.2017.00038</p>	2017
<p>Evaluation of Team Expertise in Software Development Organizations</p> <p><i>Muhammad Qasim Riaz Muhammad Abbas Sufian Irshad</i></p> <p><i>2017 International Conference on Frontiers of Information Technology (FIT), res.country(177,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/FIT.2017.00018</p>	2017
<p>AAGV: A Cluster Based Multicast Routing Protocol for Autonomous Aerial and Ground Vehicles Communication in VANET</p> <p><i>Muazzam Khattak Waqar Farooq Saad Rehman Nazar Abbas Saqib Muhammad Abbas</i></p> <p><i>15th International Conference on Frontiers of Information Technology (FIT 2017), res.country(177,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/FIT.2017.00063</p>	2017
<p>AAGV: A Cluster Based Multicast Routing Protocol for Autonomous Aerial and Ground Vehicles Communication in VANET</p> <p><i>Waqar Farooq Muazzam Ali Khan Saad Rehman Nazar Abbas Saqib Muhammad Abbas</i></p> <p><i>International Conference on Frontiers of Information Technology (FIT) held from 18-20 Dec 2017 in Pakistan , res.country(177,)</i></p> <p>Citations: N/A</p> <p>DOI: 10.1109/FIT.2017.00063</p>	2017
<p>The Impact of Agile Methodology (DSDM) on Software Project Management</p> <p><i>Aiman Khan Nazir Iqra Zafar Muhammad Abbas</i></p> <p><i>International Conference on Engineering, Computing & Information Technology (ICECIT 2017) , res.country(157,)</i></p> <p>Citations: N/A</p> <p>DOI: N/A</p>	2017
<p>Team Interaction for Successful Project Management in Software Development</p> <p><i>Munazza Ansar Raheela Bibi Muhammad Abbas</i></p> <p><i>International Conference on Engineering, Computing & Information Technology (ICECIT 2017), res.country(157,)</i></p> <p>Citations: N/A</p> <p>DOI: N/A</p>	2017
<p>A Study on Uncertainties in Software Project Management in Pakistan</p> <p><i>Sara Tanvir Mamoon Saifdar Hanny Tufail Aimal Khan Muhammad Abbas</i></p> <p><i>International Conference on Engineering, Computing and Information Technology, res.country(157,)</i></p> <p>Citations: N/A</p> <p>DOI: https://www.researchgate.net/publication/330509417_A_study_on_Uncertainties_in_Software_Project_Management_in_Pakistan</p>	2017
<p>A Comparative Study of Types, Tools and Techniques in Solar Irradiance Forecasting</p> <p><i>Kanza Sheikh Saad Rehman Muhammad Abbas Qaiser Chaudry</i></p> <p><i>Information Technologies, Systems And Networks, Chisinau, Moldova</i></p> <p>Citations: N/A</p>	2017

DOI: https://ibn.idsi.md/sites/default/files/imag_file/338-349.pdf	
Quality of The Software Products and Their Successfulness. <i>Muazzam Khattak Maryam Gillani Muhammad Abbas Saad Rehman Ata Ullah</i> <i>2nd International Conference on Information Technologies, Systems and Networks (ITSN-2017)</i> Citations: N/A DOI: https://ibn.idsi.md/ro/vizualizare_articol/60414	2017
Tracking of Fixed Shape Moving Objects based on Modified Particle Filters <i>Haris Masood Saad Rehman Muazzam Khan Qaiser Javed M.Abbas M.Alam Rupert Young</i> <i>19th International Conference on Computer and Information Technology, res.country(19,)</i> Citations: N/A DOI: 10.1109/ICCITECHN.2016.7860202	2016
Systematic Literature Review: Ingenious Software Project Management while narrowing the impact aspects <i>Mudassar Adeel Ahmed Imran Ahsan Muhammad Abbas</i> <i>International Conference on Research in Adaptive and Convergent Systems RACS '16, res.country(233,)</i> Citations: N/A DOI: 10.1145/2987386.2987422	2016
Traffic Event Detection from Road Surveillance Videos based on Fuzzy Logic <i>Fozia Mehboob Muhammad Abbas Richard Jiang</i> <i>2016 SAI Computing Conference (SAI), res.country(231,)</i> Citations: N/A DOI: 10.1109/SAI.2016.7555981	2016
Automated Vehicle Density Estimation from Raw Surveillance Videos <i>Fozia Mehboob Muhammad Abbas Muhammad Atif Tahir Richard Jiang Somaya Al-Maadeed Ahmed Bouridane</i> <i>2016 SAI Computing Conference (SAI), res.country(231,)</i> Citations: N/A DOI: 10.1109/SAI.2016.7555981	2016
Traffic Flow Estimation from Road Surveillance Videos <i>Fozia Mehboob Muhammad Abbas Resheed Almotaryi Richard Jiang Somaya Al-Maadeed Ahmed Bouridane</i> <i>2015 IEEE International Symposium on Multimedia (ISM), res.country(233,)</i> Citations: N/A DOI: 10.1109/ISM.2015.14	2015
Identification of Risks in Pakistani IT Companies: A Survey Paper <i>Mishall Fatima Khan Dr. Muhammad Abbas Dr. Mahmood Anwar Khan</i> <i>2014 IEEE 27th Canadian Conference on Electrical and Computer Engineering (CCECE), res.country(38,)</i> Citations: N/A DOI: 10.1109/CCECE.2014.6900999	2014
Critical success factors assessment in Software Projects <i>Rabia Hashim Dr. Muhammad Abbas Muhammad Hashim</i> <i>IEEE Technically Co-Sponsored Science and Information Conference, res.country(231,)</i> Citations: N/A DOI: https://ieeexplore.ieee.org/document/6661752	2013
Software Project Management in virtual Teams <i>Bakhtawar Seerat Marriam Samad Muhammad Abbas</i> <i>2013 Science and Information Conference, res.country(231,)</i> Citations: N/A DOI: https://ieeexplore.ieee.org/document/6661728	2013
Risks Factors Identification and Assessment in Virtual Projects of Software Industry: A Survey Study <i>Iqra Basharat Tayyaba Nafees Dr Muhammad Abbas</i> <i>2013 Science and Information Conference, res.country(231,)</i> Citations: N/A DOI: https://ieeexplore.ieee.org/document/6661735	2013
Risk Management System for ERP Software Projects <i>Muhammad Zaman Fakhar Dr. Muhammad Abbas Madiha Waris</i> <i>2013 Science and Information Conference, res.country(231,)</i>	2013

Citations: N/A

DOI: <https://ieeexplore.ieee.org/document/6661743>