

Tauseef Ahmad Rana

Associate Professor
Military College of Signals

Email: tauseefrana@mcs.edu.pk
Contact: 0512313779
LinkedIn:



About

Dr. Tauseef Ahmad Rana is working as Associate Professor in the Military College of Signals. Dr. Tauseef Ahmad Rana has a PhD in Component-Based Developed. Dr. Tauseef Ahmad Rana has published 48 research articles & conference papers having a citation count of 215, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Component-Based Developed University of Manchester , Pakistan	2007 - 2015
MSc in Information Systems South Bank University , Pakistan	1998 - 2000
BE in Electrical And Electronics South Bank University , Pakistan	1994 - 1998

Experience

Associate Professor Military College of Signals	2024- Present
Associate Professor Military College of Signals	2021 - 2005
Assistant Professor Military College of Signals	2019 - 2021
Assistant Professor Military College of Signals	2016 - 2021
Assistant Professor Military College of Signals	2006 - 2019
Assistant Professor Military College of Signals	2004 - 2016
Lecturer Military College of Signals	2002 - 2004
Manager Ideal Solutions Limited , Lahore	2001 - 2002
Programmer/Analyst ESP Business Solutions Limited , London	2000 - 2001

Awards

Faculty Development Progr PhD sponsorship	2007
Overseas Bursary Due to this local student fee was paid.	2007

Professional Memberships

PEC	Since 2004
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- C2B: A Semantic Source Code Retrieval Model using CodeT5 and Bi-LSTM** 2024
Nazia Bibi Ayesha Maqbool Tauseef Ahmad Rana Farkhanda Afzal Adnan Ahmed Khan
Applied Sciences , Volume 14(13), Article Number 5795
Impact Factor: 2.500 | **Quartile:** 1 | **Citations:** 2
DOI: <https://doi.org/10.3390/app14135795>
- Collaborative Solutions to Software Architecture Challenges Faced by IT Professionals** 2024
Zeeshan Anwar Nazia Bibi Tauseef Rana Seifedine Kadry Hammad Afzal
International Journal of Human Capital and Information Technology Professionals (IJHCITP), Volume 15, Issue 1, Pages 1-29
Impact Factor: 0.900 | **Quartile:** 4 | **Citations:** 2
DOI: 10.4018/IJHCITP.342839
- Enhancing source code retrieval with joint Bi-LSTM-GNN architecture: A comparative study with ChatGPT-LLM** 2024
Nazia Bibi Ayesha Maqbool Tauseef Ahmed Rana
Journal of King Saud University - Computer and Information Sciences, Volume 36, Issue 2
Impact Factor: 6.9 | **Quartile:** 1 | **Citations:** 8
DOI: 10.1016/j.jksuci.2023.101865
- Enhancing Semantic Code Search with Deep Graph Matching** 2023
Nazia Bibi Ayesha Maqbool Tauseef Rana Farkhanda Afzal Ali Akgul Sayed M. El Din
IEEE Access , Volume 11, Pages 52392-52411
Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 4
DOI: 10.1109/ACCESS.2023.3263878
- Reusable Component Retrieval: A Semantic Search Approach for Low Resource Languages** 2023
Nazia Bibi Tauseef Ahmad Rana Ayesha Maqbool Tamim Alkhalifah Wazir Zada Khan Yousaf Bin Zikria
ACM Transactions on Asian and Low-Resource Language Information Processing, Volume 22 Issue 5
Impact Factor: 1.471 | **Quartile:** 4 | **Citations:** 1
DOI: 10.1145/3564604
- An Intelligent Platform for Software Component Mining and Retrieval** 2023
Nazia Bibi Tauseef Rana Ayesha Maqbool Farkhanda Afzal Ali Akgul Manuel De la Sen
Sensors , Volume 23, Issue 1, Article Number 525
Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 2
DOI: <https://doi.org/10.3390/s23010525>
- Web semantics and ontologies-based framework for software component selection from online repositories** 2023
Nazia Bibi Tauseef Ahmed Rana Ayesha Maqbool Alina Mirza Zeshan Iqbal Muhammad Attique Khan Majed Alhaisoni Usman Tariq Robertas Damaševičius
International Journal of Web and Grid Services, Volume 19, No. 3, Pages 318-349
Impact Factor: 1.0 | **Quartile:** 4 | **Citations:** 1
DOI: <https://doi.org/10.1504/ijwgs.2023.133503>
- Devising a Usability Development Life Cycle (UDLC) Model for Enhancing Usability and User Experience in Interactive Applications** 2022
Qurat Ul Ain Tauseef Rana Aamana
Sir Syed University Research Journal of Engineering and Technology, Volume 12, No. 2, Pages 81-94
Impact Factor: N/A
DOI: <https://doi.org/10.33317/ssurj.475>
- Achieving Stepwise Construction of Cyber Physical Systems in EX-MAN Component Model** 2022
Tauseef Ahmad Rana Ayesha Maqbool Toqir A.Rana Alina Mirza Zeeshan iqbal Muhammad Attique Khan Majed Alhaisoni Abdullah Alqahtani Ye Jin Kim
Byoungchol Chang
Journal of King Saud University - Computer and Information Sciences, Article in Press
Impact Factor: 9.000 | **Quartile:** 1 | **Citations:** 1
DOI: <https://doi.org/10.1016/j.jksuci.2022.10.024>
- An Unsupervised Approach for Sentiment Analysis on Social Media Short Text Classification in Roman Urdu** 2022
Toqir Ahmad Rana Kiran Shazadi Tauseef Ahmad Rana Ahsan Arshad Mohammad Tubishat
ACM Transactions on Asian and Low-Resource Language Information Processing, Volume 21, Issue 2, Article Number 28
Impact Factor: 1.413 | **Quartile:** 4 | **Citations:** 20

DOI: https://doi.org/10.1145/3474119	
A comparative analysis of consensus protocols for dealing power theft issue in Pakistan. <i>Ayesha Maqbool Sumaera Sattar Amna Naheed Sana Khalid Tauseef Ahmad Rana Farkhanda Afzal Murat Cacan</i> <i>Journal of Information and Optimization Sciences</i> , Volume 42(7), Pages 1523-1540 Impact Factor: N/A DOI: 10.1080/02522667.2021.1934100	2021
A survey on Common Criteria (CC) evaluating schemes for security assessment of IT products <i>Mehreen Fatima Haider Abbas Tahreem Yaqoob Narmeen Shafqat Zarmeen Ahmad Raja Zeeshan Zia Muhammad Tauseef Ahmad Rana Shynar</i> <i>Mussiraliyeva</i> <i>PeerJ Computer Science</i> , Volume 7, Article Number e701 Impact Factor: 2.411 Quartile: 2 Citations: 12 DOI: 10.7717/peerj-cs.701	2021
A Model-Driven Framework for the Development of MVC-Based (Web) Application <i>Sheikh Israr Ahmad Tauseef Ahmad Rana Ayesha Maqbool</i> <i>Arabian Journal for Science and Engineering</i> , Pages 1-15 Impact Factor: 2.807 Quartile: 2 Citations: 14 DOI: https://doi.org/10.1007/s13369-021-06087-4	2021
Expertise based Skills Management System to Support Resource Allocation <i>Nazia Bibi Zeeshan Anwar Tauseef Ahmad Rana</i> <i>PLoS One</i> , Volume 16(8), Article Number e0255928 Impact Factor: 3.240 Quartile: 2 Citations: 6 DOI: https://doi.org/10.1371/journal.pone.0255928	2021
Blockchain-based green big data visualization: BGbV <i>Iqra Shehzad Ayesha Maqbool Tauseef Rana Alina Mirza Wazirzada Khan Sung Won Kim Yousaf Bin Zikria Sadia Din</i> <i>Complex & Intelligent Systems</i> , Pages 1-12 Impact Factor: 6.700 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1007/s40747-021-00466-y	2021
Thermodynamics Inspired Co-operative Self-Organization of Multiple Autonomous Vehicles <i>Farkhanda Afzal Tauseef Rana Alina Mirza Ayesha Maqbool</i> <i>Intelligent Automation & Soft Computing</i> , Volume 28, No.3, Pages 653-667 Impact Factor: 3.401 Quartile: 2 Citations: 2 DOI: doi:10.32604/iasc.2021.017506	2021
Reverse Engineering of Object Oriented Systems to ALF <i>Asad Nawaz Tauseef Ahmad Rana Farooque Azam Muhammad Waseem Anwar</i> <i>International Journal of Software Engineering and Knowledge Engineering</i> , Volume 31, No. 5, Pages 745-775 Impact Factor: 1.007 Quartile: 4 DOI: DOI: 10.1142/S0218194021500200	2021
Monitoring social distancing under various low light conditions with deep learning and a single motionless time of flight camera <i>Adina Raheem Ayesha Maqbool Tauseef Rana</i> <i>PloS One</i> , Volume 16(2), Article Number e0247440 Impact Factor: 3.752 Quartile: 2 Citations: 55 DOI: https://doi.org/10.1371/journal.pone.0247440	2021
PFE: A Visual Programming Framework for teaching Programming for Dummies or Beginners <i>Mufti Anees-ur-Rahman Rai Sabir Umer Riaz Tauseef Rana</i> <i>University of Sindh Journal of Information and Communication Technology</i> , Volume 4, Issue 3, Pages 194- 198 Impact Factor: 0 DOI: 0	2020
A Component Model with Verifiable Composition for the Construction of Emergency Management Systems <i>Tauseef Ahmad Rana Muhammad Ali Imran Abdullah Baz</i> <i>Arabian Journal for Science and Engineering</i> , Pages 1-10 Impact Factor: 2.334 Quartile: 3 Citations: 3 DOI: https://doi.org/10.1007/s13369-020-04819-6	2020
Multi-level knowledge-based approach for implicit aspect identification	2020

<i>Toqir Ahmad Rana Yu-N Cheah Tauseef Ahmad Rana</i> <i>Applied Intelligence</i> , Pages 1-16 Impact Factor: 5.086 Quartile: 2 Citations: 29 DOI: 10.1007/s10489-020-01817-x	
A Generalised Coordination Design Pattern for the EX-MAN Component Model <i>Tauseef Ahmed Rana Abdullah Baz</i> <i>IEEE Access</i> , Volume 8, Pages 115461-115475 Impact Factor: 3.367 Quartile: 2 Citations: 1 DOI: 10.1109/ACCESS.2020.3004262	2020
EX-MAN Component Model for Component Based Software Construction <i>Tauseef Ahmed Rana</i> <i>Arabian Journal for Science and Engineering</i>, Volume 45, Pages 2915–2928 Impact Factor: 2.334 Quartile: 3 Citations: 5 DOI: 10.1007/s13369-019-04213-x	2020
A Blockchain-Based Solution to Control Power Losses in Pakistan <i>Sana Khalid Ayesha Maqbool Amna Naheed Tauseef Rana</i> <i>Arabian Journal for Science and Engineering</i>, Pages 1-13 Impact Factor: 2.334 Quartile: 3 Citations: 8 DOI: https://doi.org/10.1007/s13369-020-04464-z	2020
Incremental Construction for Scalable Component-Based Systems <i>Tauseef Rana Abdullah Baz</i> <i>Sensors</i> , Volume 20, Issue 5, Article Number 1435 Impact Factor: 3.576 Quartile: 1 Citations: 6 DOI: 10.3390/s20051435	2020
Incremental Composition Process for the Construction of Component-Based Management Systems <i>Tauseef Rana Yawar Abbas Bangash Abdullah Baz Toqir Ahmad Rana Muhammad Ali Imran</i> <i>Sensors</i> , Volume 20 Issue 5, Article Number 1351 Impact Factor: 3.576 Quartile: 1 Citations: 4 DOI: 10.3390/s20051351	2020
A preliminary survey on software testing practices in Khyber Pakhtunkhwa region of Pakistan <i>Bushra Latif Tauseef Ahmad Rana</i> <i>Turkish Journal of Electrical Engineering and Computer Sciences</i>, Volume 28, Pages 575–589 Impact Factor: 0.806 Quartile: 4 Citations: 1 DOI: 10.3906/elk-1903-6	2020
Flow Constraint Language for Coordination by Exogenous Connectors <i>Tauseef Rana Yawar Abbas Bangash Haider Abbas</i> <i>IEEE Access</i> , Volume 7, Pages 138341-138352 Impact Factor: 3.745 Quartile: 1 Citations: 5 DOI: DOI: 10.1109/ACCESS.2019.2943164	2019
Secure Architecture for E-Commerce Websites <i>Tooba Ahmad Tauseef Ahmad Rana</i> <i>Sir Syed University Research Journal of Engineering and Technology</i>, Volume 9, Issue 1, Pages 13-17 Impact Factor: 0 DOI: 10.33317/SSURJ.V9I1.108	2019
Incast Mitigation in a Data Center Storage Cluster Through a Dynamic Fair-Share Buffer Policy <i>YAWAR ABBAS BANGASH TAUSEEF RANA HAIDER ABBAS MUHAMMAD ALI IMRAN ADNAN AHMED KHAN</i> <i>IEEE Access</i> , Volume 7, Pages 10718-10733 Impact Factor: 3.745 Quartile: 1 Citations: 2 DOI: 10.1109/ACCESS.2019.2891264	2019

Conference Proceedings

A Pragmatic Decision Making Mechanism for Reusable Source Code Snippets Retrieval using Semantic Approach <i>Nazia Bibi Tauseef Ahmed Rana Ayesha Maqbool Qurat-ul-Ain</i>	2023
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Citations: N/A	
DOI: Nil	
Exploring the Effectiveness of Joint Bi-LSTM-GNN vs ChatGPT-LLM in Source Code Retrieval	2023
<i>Nazia Bibi Ayesha Maqbool Tauseef Ahmed Rana</i>	
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Citations: N/A	
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Enhancing source code retrieval with joint Bi-LSTM-GNN architecture: A comparative study with ChatGPT-LLM	2023
<i>Nazia Bibi Tauseef Ahmad Rana Ayesha Maqbool</i>	
<i>2023 20th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/IBCAST59916.2023.10712910	
Bi-Directional LSTM-Based Search Engine for Source Code Retrieval	2023
<i>Nazia Bibi Tauseef Ahmad Rana Ayesha Maqbool</i>	
<i>4th International Conference on Communication Technologies, ComTech 2023, res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/ComTech57708.2023.10165061	
Interaction with Media Players through Hand Gesture Recognition	2023
<i>Maryam Saleem Zainab Yousaf Iqra Arshad Maria Abubaker Tauseef Ahmad Rana</i>	
<i>4th International Conference on Communication Technologies, ComTech 2023, res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/ComTech57708.2023.10165422	
A Study on Identifying, Categorizing and Reporting Usability Bugs and Challenges	2023
<i>Qurat Ul Ain Tauseef Ahmad Rana Aamana</i>	
<i>4th International Conference on Communication Technologies, ComTech 2023, res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/ComTech57708.2023.10165169	
Categorization of User Experience and Usability Issues (UXUIs) and their Prioritization w.r.t Categorization for Improving the UXU of Interactive System (IS)	2021
<i>Tayyba Farooqui Tauseef Ahmad Rana Ayesha Maqbool</i>	
<i>2021 International Conference on Communication Technologies (ComTech), res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/ComTech52583.2021.9616799	
Programmer Experience: An HCI Perspective	2021
<i>Umer Farooq Khan Tauseef Ahmad Rana</i>	
<i>International Conference on Communication Technologies (ComTech), res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/ComTech52583.2021.9616689	
Conceptual Model for Component Selection: A Research Review on Existing Techniques	2021
<i>Nazia Bibi Tauseef Ahmad Rana Qurat Ul Ain Ayesha Naseer</i>	
<i>2021 International Conference on Communication Technologies (ComTech), res.country(177,)</i>	
Citations: N/A	
DOI: 10.1109/ComTech52583.2021.9616711	
Capturing Users Requirements Using a Data Mining Approach	2021
<i>Muhammad Zeeshan Qureshi Anique Azhar Qazi Abubakar Tauseef Ahmad Rana Ayesha Maqbool</i>	
<i>International Conference on Communication Technologies (ComTech), res.country(177,)</i>	
Citations: 2	
DOI: 10.1109/ComTech52583.2021.9616939	
A Comparative Analysis of Consensus Protocols for Dealing Power Theft Issue in Pakistan	2021
<i>Ayesha Maqbool Amna Naheed Sana Khalid Tauseef Ahmad Rana Farkhanda Afzal</i>	
<i>Communications in Combinatorics, Cryptography & Computer Science, res.country(107,)</i>	
Citations: N/A	
DOI: 10.13140/RG.2.2.36495.51364	

Microservices Architecture: Challenges and Proposed Conceptual Design <i>Raja Mubashir Munaf Jawwad Ahmed Faraz Khakwani Tauseef Ahmad Rana</i> <i>2019 International Conference on Communication Technologies (ComTech), res.country(177,)</i> Citations: N/A DOI: 10.1109/COMTECH.2019.8737836	2019
Quality Based Software Architectural Decision Making <i>Tauseef Ahmad Rana Tehreem Aslam Marwa Batool Amna Naheed Asma Andaleeb</i> <i>2019 International Conference on Communication Technologies (ComTech), res.country(177,)</i> Citations: N/A DOI: 10.1109/COMTECH.2019.8737836	2019
Impact of Human-Centered Design Process (HCDP) on Software Development Process <i>Tayba Farooqui Tauseef Ahmad Rana Fakeeha Jafari</i> <i>2nd International Conference on Communication, Computing and Digital systems (C-CODE), res.country(177,)</i> Citations: N/A DOI: DOI: 10.1109/C-CODE.2019.8680978	2019
Singular Adaptive Multi-role Intelligent Personal Assistant (SAM-IPA) for Human Computer Interaction <i>Khawir Mahmood Tauseef Ahmad Rana Abdur Rehman Raza</i> <i>12th International Conference on Open Source Systems and Technologies (ICOSST), res.country(177,)</i> Citations: N/A DOI: DOI: 10.1109/ICOSST.2018.8632189	2018
Virtual Reality for Disabled People: A Survey <i>Ayesha Tariq Tauseef Ahmad Rana Maryum Nawaz</i> <i>International Conference on Open Source Systems and Technologies (ICOSST), res.country(177,)</i> Citations: N/A DOI: DOI: 10.1109/ICOSST.2018.8632182	2018
Incremental construction: A study of refinement and composition based approaches <i>Tauseef Ahmad Rana</i> <i>National Software Engineering Conference, res.country(177,)</i> Citations: N/A DOI: DOI: 10.1109/NSEC.2014.6998234	2014