



Dr. Muzammil Khan

Ph.D. Computer Science

PERSONAL INFORMATION

Address Shah House, Aqba Saidu Sharif Swat, KP, Pakistan



<https://uswat.edu.pk/department-of-computer-and-software-technology/>



[Research Gate Profile \(researchgate.net\)](https://www.researchgate.net/)



[Google Scholar Profile\(scholar.google.com\)](https://scholar.google.com/)



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ACADEMIC RECORD

Qualification	Session	Division	Institution
PhD Computer Science	2014-18	1 st	Preston University Islamabad
MPhil Computer Science	2010-12	1 st	Quaid-i-Azam University Islamabad
BS Computer Science (Hon's) Gold Medalist	2005-09	1 st	University of Malakand
FSc Pre-Engineering	2002-04	1 st	BISE Swat
SSC (Science)	2001-02	1 st	BISE Swat

EXPERIENCE (12 YEARS)

Institution	Job Position
University of Swat	Assistant Professor (TTS) Department of Computer & Software Technology Jan 2021 till to Date
City University of Science & Information Technology	Assistant Professor (CU-BPS 19) Department of Computer Science Aug 2020 to Jan 2021
University of Swat	Assistant Professor (IPFP) Department of Computer & Software Technology Jan 2019 to Jan 2020
City University of Science & Information Technology	Assistant Professor (CU-BPS 19) Department of Computer Science May 2018 to Jan 2019
University of Swat	<i>Lecturer (BPS-18)</i> Department of Computer & Software Technology Oct 2013 to May 2018
Govt: AKL P.G College Matta Swat	<i>Lecturer (BPS-17)</i> Department of Computer Science Nov 2010 to Oct 2013

**ADDITIONAL
RESPONSIBILITY**

**At the Department of Computer & Software Technology,
University of Swat.**

Coordinator
MS Computer Science Program (Since Feb 2021)

HEC Approved PhD Supervisor (Since Jan 2021)

Director
Directorate of Information Technology, UoS (Oct 2021 – Oct 2022)

Coordinator
MS & PhD Programs (Feb 2019 – Dec 2020)

**At the Department of Computer Science, City University of Science &
Information Technology**

Director of Postgraduate Studies (May 2018 to Jan 2019)
Research Coordinator (May 2018 to Jan 2019)

**At the Department of Computer & Software Technology,
University of Swat.**

Coordinator
BS Computer Science (Dec 2013 – May 2018)
MCS (Master in Computer Science) (Jan 2017-Feb 2018)

Member, Project Evaluation Committee (Dec 2013 – May 2018)

Member, Board of Studies BSCS, BSSE, BSIT & MCS (Jan 2014 – May 2018)

Member, Semester Committee (June 2014 – May 2018)

Department Staff Proctor (May 2015 – May 2018)

**RESEARCH
PROJECTS**

Research Projects

PhD Research Thesis Title:
"Using Text Processing Techniques for Linking News Stories for Digital
Preservation".

M. Phil Research Thesis Title:
"Evaluating Visualization Techniques for Data Mining Results on Mobile
Devices".

BS Research Thesis Title:
"Appropriate Length of Text Line with Special Relationship to Eye Blink to
Reduce Maximum Focus Loss".

**ICT, R & D
FUNDED
PROJECTS**

Research Projects

1. Enhancing the Digital News Stories Preservation Framework for ARABIC
Language
Duration: Oct 2021 – Oct 2022

Cost: 8.1 million (PKR)

Funded Final Year Projects (FYP)

1. E-Class Attendance System for UoS
(NICTRDF/NGIRI/2013-14/Corsp/01) 2014
2. RFID-based Attendance & Entrance Security System
3. Any Body Here (System help to Find Skill Person Around)
(NICTRDF/NGIRI/2014-15/Corsp/03) 2015
4. Share Your Journey (System help to Share Journey with Person having
Private Vehicle)
(NICTRDF/NGIRI/2015-16/Corsp/06) 2016

**HEC TRAVEL
GRANTS**

1. Travel Grant (No. 236.157/TG/R&D/HEC/2015) for Oral Presentation to
ICADL-2015, Springer, 9-12th Dec 2015, Seoul South Korea.
2. Travel Grant (No.281.64/TG/R&D/HEC/2017/24493) for Oral Presentation
to IRCDL-2018, Springer, 24-26th Jan 2018, Udine Italy.
3. Travel Grant (No.281.64/TG/R&D/HEC/2018/29327) for Oral Presentation
to SETIT 201 8, Springer/IEEE, 18-22nd Dec 2018, Hammamet, Tunisia.

REFERENCES

Furnished upon request of supporting documents. The publication List is
attached with relevant details.

PH.D. SUPERVISION

	Thesis Title – Scholar Name	Status
1.	A Learning Based Framework for Named Entity Recognition in Urdu Text – <i>Mushtaq Ali</i>	Thesis, Synopsis Approved
2.	A Framework for Linking Vertical News Stories during Preservation for Digital News Stories Archive – <i>Abdul Haq</i>	Thesis, Synopsis Approved
3.	Segmentation and Classification to Diagnose Coronary Artery Disease Using Angiographic Images – <i>Sarwar Shah Khan</i>	Thesis, Synopsis Approved

MS SUPERVISION

	Thesis Title – Scholar Name	Status
1.	Rule-based Lexical Normalization of Roman Urdu Scripts to Urdu Scripts – <i>Noor Alam Khan</i>	Completed, Jan 2023
2.	Proposing Technique for Efficient Content Management in Digital Libraries – <i>Huma Rani</i>	Completed, May 2022
3.	Framework for Detection of Tuberculosis Using Image Processing Techniques – <i>Abnash Zaman</i>	Completed, March 2022
4.	Ensemble Classifiers for Enhanced SAR Target Classification in Both Standard and Extended Operating Conditions – <i>Noor Rahman</i>	Completed, Aug 2021
5.	Disease Identification in Hyperspectral Images of Tomato Plant Leaves Using Deep Learning Approaches – <i>Fahmida Gulan</i>	Completed, May 2021
6.	Predicting Students' Performance and Identifying Factors Affecting Performance Using Classification Techniques – <i>Asif Hussain</i>	Completed, March 2021
7.	Query-based Extractive Text Summarization Using K-Mean and Latent Dirichlet Allocation Techniques – <i>Sohail Muhammad</i>	Completed, Jan 2021
8.	A New Approach for Software Cost Estimation using Flower Pollination Algorithm – <i>Bilal Khan</i>	Completed, Jan 2019

RESEARCH PUBLICATIONS

—	Publications	Impact Factor	Year
1.	A Metadata Elements Set for Digital News Stories Preservation Framework for Efficient Content Management - Submitted	_____	2023
2.	A Neural Networks-based Model for Early and Late Blight Disease Identification in Tomato Plant - Submitted	_____	2023
3.	Query-based Extractive Text Summarization using K-Means and Latent Dirichlet Allocation Techniques – Accepted	_____	2023

4.	Ensemble Classifier for Enhanced SAR Target Classification Under Standard and Extended Operating Conditions - Submitted		2023
5.	Understanding Research Challenges in Low-Resource Language and Linking Bilingual News Articles in Multilingual News Archive M Khan, K Ullah, Y Alharbi, A Alferaidi, TS Alharbi, K Yadav, N Alsharabi, ... Applied Sciences 13 (15), 8566	2.838	2023
6.	Fast Local Laplacian Filter Based on Modified Laplacian through Bilateral Filter for Coronary Angiography Medical Imaging Enhancement SS Khan, M Khan, Y Alharbi Algorithms 16 (12), 531	2.3	2023
7.	Sentiment Analysis based on Performance of Linear Support Vector Machine and Multinomial Naive Bayes using Movie Reviews with Baseline Techniques – Revision Submitted	2.7	2023
8.	Sentiment Analysis Based on Performance of Linear Support Vector Machine and Multinomial Naïve Bayes Using Movie Reviews with Baseline Techniques MM Daniyal, SS Khan, M Khan, BG Muhammad, B Khan, M Arshad Journal on Big Data 5 (1), 1–18.	Scopus Indexed	2023
9.	Epileptic Seizure Detection Using the EEG Signal Empirical Mode Decomposition and Machine Learning J Nassir, M Alasabi, SM Qaisar, M Khan 2023 International Conference on Smart Computing and Application (ICSCA), 1-6, IEEE.	Conference	2023
10.	Multi-Focus Image Fusion using Unsharp Masking with Discrete Cosine Transform M Shah, SS Khan, M Khan, S Ali Proceedings of 1st International Conference on Computing Technologies, Tools and Applications (ICTAPP-23)	Conference	2023
11.	ETISTP: an enhanced model for brain tumor identification and survival time prediction S Hussain, S Haider, S Maqsood, R Damaševičius, M Khan, R Maskeliūnas, ... Diagnostics 13 (8), 2023, MDPI.	3.992	2023
12.	Metadata for Efficient Management of Digital News Articles in Multilingual News Archives M Khan, SS Khan, Y Alharbi, A Alferaidi, TS Alharbi, K Yadav Sage Open 13 (3), 2023.	2.023	2023
13.	The Role of Transliterated Words in Linking Bilingual News Articles in an Archive M Khan, SS Khan, Y Alharbi, A Alferaidi, TS Alharbi, K Yadav Applied Sciences 13 (7), 4435	2.838	2023
14.	The role of news title for linking during preservation process in digital archives M Khan, SS Khan, A Ahmad, AU Rahman Library Hi Tech 40 (5), 1359-1383	2.36	2022
15.	Student’s performance prediction model and affecting factors using classification techniques A Hussain, M Khan, K Ullah	2.92	2022

	Education and Information Technologies 27 (6), 8841-8858		
16.	Hyperspectral image classification using NRS with different distance measurement techniques SS Khan, M Khan, S Haider, R Damaševičius Multimedia Tools and Applications 81 (17), 24869-24885	2.72	2022
17.	A Deep Neural Network-Based Approach for Sentiment Analysis of Movie Reviews K Ullah, A Rashad, M Khan, Y Ghadi, H Aljuaid, Z Nawaz Complexity 2022	2.883	2022
18.	Predicting and preventing crime: A crime prediction model using san francisco crime data by classification techniques M Khan, A Ali, Y Alharbi Complexity 2022	2.883	2022
19.	A content-based technique for linking dual language news articles in an archive M Khan, AU Rahman, A Ahmad, SS Khan Journal of Information Science 48 (1), 57-70	3.28	2022
20.	Hybrid Sharpening Transformation Approach for Multifocus Image Fusion Using Medical and Nonmedical Images SS Khan, M Khan, Y Alharbi, U Haider, K Ullah, S Haider Journal of Healthcare Engineering 2021	2.6	2021
21.	A framework for modeling structural association among De-Motivators of scaling agile MF Abrar, S Ali, MF Majeed, S Khan, M Khan, H Ullah, MA Khan, ... Journal of Software: Evolution and Process 33 (8), e2366	1.97	2021
22.	Text mining challenges and applications—a comprehensive review M Khan, MS Khan, Y Alharbi IJCSNS 20 (12), 138	ISI Indexed	2020
23.	EERBCR: Energy-efficient regional based cooperative routing protocol for underwater sensor networks with sink mobility H Gul, G Ullah, M Khan, Y Khan Journal of Ambient Intelligence and Humanized Computing, 1-13	7.1	2020
24.	Image pan-sharpening using enhancement based approaches in remote sensing SS Khan, Q Ran, M Khan Multimedia Tools and Applications 79, 32791-32805	2.72	2020
25.	Towards an improved energy efficient and end-to-end secure protocol for iot healthcare applications A Ahmad, A Ullah, C Feng, M Khan, S Ashraf, M Adnan, S Nazir, HU Khan Security and Communication Networks 2020, 1-10	1.79	2020
26.	Software Cost Estimation Using Flower Pollination Algorithm B Khan, R Naseem, M Binsawad, M Khan, A Ahmad Journal of Internet Technology 21 (5), 1243-1251	1.0	2020
27.	Pan-Sharpener Framework Based on Laplacian Sharpening with Brovey	Conference	2020

	S Khan, Sarwar, Q Ran, M Khan, Z Ji 2019 IEEE International Conference on Signal, Information and Data ...		
28.	A systematic literature review on using machine learning algorithms for software requirements identification on stack overflow A Ahmad, C Feng, M Khan, A Khan, A Ullah, S Nazir, A Tahir Security and Communication Networks 2020, 1-19	1.79	2020
29.	Hyperspectral image classification using nearest regularized subspace with Manhattan distance SS Khan, Q Ran, M Khan, M Zhang Journal of Applied Remote Sensing 14 (3), 032604-032604	1.553	2020
30.	Visual Features Comparison of Smartphone and Tablet in Visual Mobile Data Mining Framework SS Khan, M Khan, Y Alharbi, K Ullah IJCSNS 20 (5), 44	ISI Indexed	2020
31.	News recommendation systems-accomplishments, challenges & future directions C Feng, M Khan, AU Rahman, A Ahmad IEEE Access 8, 16702-16725	3.37	2020
32.	Multi Focus Image Fusion using Image Enhancement Techniques with Wavelet Transformation SS Khan, M Khan, Y Alharbi International Journal of Advanced Computer Science and Applications (IJACSA ...	ISI Indexed	2020
33.	The role of named entities in linking news articles during preservation M Khan, A Ur Rahman, M Ullah, R Naseem Proceedings of the 8th International Conference on Sciences of Electronics ...	Conference	2020
34.	Pan-sharpening framework based on laplacian sharpening with Brovey SS Khan, Q Ran, M Khan, Z Ji 2019 IEEE International Conference on Signal, Information and Data ...	Conference	2019
35.	Evaluating Interactive Visualization Techniques on Small Touch Screen Devices M Khan, SS Khan, K Ullah, G Ullah International Journal of Grid and Distributed Computing 12 (02), 31-48	ISI Indexed	2019
36.	Quantifying the Use of English Words in Urdu News-Stories SM Alam, AU Rahman, M Khan International Conference on Asian Language Processing, Shanghai, China, 15-17	Conference	2019
37.	A review on data preprocessing methods for class imbalance problem H Ali, MNM Salleh, K Hussain, A Ahmad, A Ullah, A Muhammad, ... International Journal of Engineering & Technology 8 (3), 390-397	Scopus Indexed	2019
38.	Multi-focus Color Image Fusion using Laplacian Filter and Discrete Fourier Transformation with Qualitative Error Image Metrics SS Khan, M Khan, Q Ran Proceedings of the 2nd International Conference on Control and Computer ...	Conference	2019
39.	Fetal Heart Rate Classification and Comparative Analysis Using Cardiotocography Data and Known Classifiers	ISI Indexed	2019

	R Afridi, Z Iqbal, M Khan, A Ahmad, R Naseem International Journal of Grid and Distributed Computing 12 (01), 31-42		
40.	A Systematic Approach towards Web Preservation M Khan, AU Rahman Information Technology and Libraries 38 (1), 71-90	<u>1.16</u>	<u>2019</u>
41.	Using Text Processing Techniques for Linking News Stories for Digital Preservation M Khan Faculty of Computer Science, Preston University Kohat, Islamabad Campus, HEC ...	<u>Thesis</u>	<u>2018</u>
42.	Challenges in Opinion Mining, Comprehensive Review SS Khan, M Khan, Q Ran, and, R Naseem A Science and Technology Journal (Ciencia e Tecnica Vitivinicola) 33 (11 ...	<u>1.3</u>	<u>2018</u>
43.	Term-based Approach for Linking Digital News Stories M Khan, AU Rahman, MD Awan Digital Libraries and Multimedia Archives. IRCDL 2018. Communications in ...	<u>Conference</u>	<u>2018</u>
44.	User Friendly Pashto Text Editor SS Khan, M Khan International Journal of Advanced Engineering, Management and Science 3 (7 ...	<u>ISI Indexed</u>	<u>2017</u>
45.	Exploring the Digital World of Newspaper Archives M Khan, AU Rahman, MD Awan A Science and Technology Journal, Portugal 32 (06), 430-449	<u>1.3</u>	<u>2017</u>
46.	Time & Cost Effective Information Management Framework for Secure Learning Environment in Educational Institutions M Khan, IU Haq, SS Khan, K Khan International Journal of Computer Science and Information Security 15 (01 ...	<u>ISI Indexed</u>	<u>2017</u>
47.	"PashApp" A User Friendly Pashto Text Editor SS Khan, M Khan, G Ullah 2nd International Conference on Emerging Trends in Engineering, Management ...	<u>Conference</u>	<u>2016</u>
48.	Comparative Exploration of Features for Data Mining Results by Legend Navigation Interactive Technique M Khan, SS Khan, MD Awan International Journal of Database Theory and Application 9 (9), 48-58	<u>ISI Indexed</u>	<u>2016</u>
49.	Normalizing digital news-stories for preservation M Khan, AU Rahman, MD Awan, SM Alam 2016 Eleventh International Conference on Digital Information Management ...	<u>Conference</u>	<u>2016</u>
50.	Digital news story preservation framework M Khan, AU Rahman Proceedings of Digital Libraries: Providing Quality Information: 17th ...	<u>Conference</u>	<u>2015</u>
51.	Framework for Interactive Data Mining Results Visualization on Mobile Devices M Khan, A Shah, I Ahmad International Journal of Database Theory and Application 7 (4), 23-36	<u>ISI Indexed</u>	<u>2014</u>
52.	Single Level Drill Down Interactive Visualization Technique for Descriptive Data Mining Results	<u>ISI Indexed</u>	<u>2014</u>

	M Khan, F Hussain, I and Khan International Journal of Grid and Distributed Computing 7 (4), 33--40		
53.	AVSA, Modified Vertex Support Algorithm for Approximation of MVC I Khan, I Ahmad, M Khan International Journal of Advanced Science and Technology 67, 71-78	<u>ISI Indexed</u>	<u>2014</u>
54.	Evaluating Visualization Techniques for Data Mining Results on Mobile Devices M Khan Department of Computer Science, Quaid i Azam University Islamabad, HEC Pakistan.	<u>Thesis</u>	<u>2013</u>
55.	Interactive Data Mining Results Visualization on Mobile Devices M Khan LAP USA	<u>Thesis</u>	<u>2013</u>
56.	Comprehensive Study on the Basis of Eye Blink, Suggesting Length of Text Line, Considering Typographical Variables the Way How to Improve Reading from Computer Screen M Khan, Khushdil Advances in Internet of Things 3 (1), 9-20	<u>ISI Indexed</u>	<u>2013</u>
57.	Suitable Length of Text Line on the Bases of Eye Blink for Reducing Maximum Focus Losses M Khan, M Raza International Journal of Computer Applications (IJCA) 37 (8), 7	<u>Scopus Indexed</u>	<u>2012</u>
58.	Data and information visualization methods, and interactive mechanisms: A survey M Khan, S Khan International Journal of Computer Applications 34 (1), 1-14	<u>Scopus Indexed</u>	<u>2011</u>
59.	Appropriate Length of Text Line with Special Relationship to Eye Blink to Reduce Maximum Focus Loss. M Khan, M Raza, N Rashid International Conference on Internet Computing USA 2010, 97-102	<u>Conference</u>	<u>2010</u>