




Dr. Muzammil Khan

 **Ph.D. Computer Science**

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PERSONAL INFORMATION

Date of Birth 22nd April, 1986

Birth Place Swat

Nationality Pakistani

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

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+923103889966

Email muzammilkhan86@gmail.com,
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 <https://uswat.edu.pk/department-of-computer-and-software-technology/>
 [Research Gate Profile \(researchgate.net\)](https://www.researchgate.net/profile/Muzammil-Khan)
 [Google Scholar Profile \(scholar.google.com\)](https://scholar.google.com/citations?user=Muzammil-Khan)
 [ORCID Profile \(0000-0003-4656-1041\) \(orcid.org\)](https://orcid.org/0000-0003-4656-1041)

ACADEMIC RECORD

| Qualification | Session | Division (CGPA) | Institution |
|--|---------|----------------------------|--|
| PhD Computer Science (Text Processing Techniques, NLP, Digital Archives) | 2014-18 | 1 st (3.8) | Preston University Islamabad, Pakistan |
| Thesis Title: Using Text Processing Techniques for Linking News Stories for Digital Preservation | | | |
| MPhil Computer Science (Mobile Information Visualization and Data Mining) | 2010-12 | 1 st (3.2) | Quaid-i-Azam University Islamabad, Pakistan |
| Thesis Title: Evaluating Visualization Techniques for Data Mining Results on Mobile Devices | | | |
| BS Computer Science (Hon's) Gold Medalist (Readability Usability, i.e. HCI research) | 2005-09 | (85.6%) 1 st | University of Malakand, Dir, Pakistan |
| Thesis Title: Appropriate Length of Text Line with Special Relationship to Eye Blink to Reduce Maximum Focus Loss | | | |

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| ACADEMIC AWARD | Gold Medalist (BS Hon's – Computer Science) | University of Malakand |
| LANGUAGE PROFECIENCY | Language | Level |
| | Pashto | Native, Fluent in all written, spoken and understanding. |
| | Urdu | Fluent in all written, spoken and understanding. |
| | English | Fluent in all written, spoken and understanding. |
| 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 |
| ADMINISTRATIVE RESPONSIBILITIES | 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 & | |

TEACHING
(LAST 3 YEARS,
RANDOM REPORTS
ARE TAKEN IN THE
UNI AND CAN BE
PROVIDED WHEN
REQUIRED)

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)

Spring 2021

MS & PhD

- Research Methods
- Data Mining

BS

- Theory of Automata

Fall 2021

MS & PhD

- Digital Image Processing
- Data Science

BS

- Data Structure and Algorithms

Spring 2022

MS & PhD

- Information Retrieval
- Collaborative Data Mining

BS

- Design and Analysis of Algorithms

Fall 2022

MS & PhD

- Natural Language Processing

BS

- Data Structure and Algorithms
- Data Structure and Algorithms

Spring 2023

MS & PhD

- Natural Language Processing
- Advanced Computer Architecture

BS

- Theory of Automata

Fall 2022

MS & PhD

- Research Methods
- Machine Learning

In My Teaching career I also taught the following courses

- Fundamental Programming
- Object Oriented Programming
- Advanced Programming (Java)
- Web Engineering I (Client side programming)
- Web Engineering II (Server side programming, i.e. PHP)
- Computer Architecture
- Digital Logic and Design
- Operating Systems
- Data Communication and Networking

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

Travel Grant (No. 236.157/TG/R&D/HEC/2015) for Oral Presentation to ICADL-2015, Springer, 9-12th Dec 2015, Seoul South Korea.

Travel Grant (No.281.64/TG/R&D/HEC/2017/24493) for Oral Presentation to IRCDL-2018, Springer, 24-26th Jan 2018, Udine Italy.

Travel Grant (No.281.64/TG/R&D/HEC/2018/29327) for Oral Presentation to

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| RESEARCH STUDENT SUPERVISED | Postdoctoral Fellows | None |
| | PhD Students | 03 |
| | Master Students | 08 |
| | Undergraduate Students | 50+ |
| THESIS AND ORAL EXAM | PhD Students (REC Member) | 03 |
| | Master Students | 10+ |
| | Undergraduate Students | 200+ |
| RESEARCH INTEREST | 1. Interdisciplinary Text Processing <ul style="list-style-type: none"> • Linking text documents • Text summarization • Sentiment Analysis • Low-resource languages manipulation | |
| | 2. Digital Technology and Healthcare <ul style="list-style-type: none"> • Introduced AuSC (Automatic Segmentation and Classification) framework for <ul style="list-style-type: none"> ✓ Tuberculosis detection (AuSC-DTB), ✓ Cancer detection (AuSC-CD) and ✓ Coronary Angiography detection (AuSC-CAD). • Image fusion • Multifocus imaging | |
| | 3. Educational Data Mining <ul style="list-style-type: none"> • Student performance prediction • Correlation among factors effecting student performance | |
| PUBLICATIONS | Articles in International Refereed Journals | 41 |
| | ✓ Submitted | 07 |
| | Conference Papers | 12 |
| | Books/Book Chapters | 01 |
| CITATIONS (GOOGLE) | Total Citations | 796 |

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| SCHOLAR) | <div>H-Index12</div> <div>I-10 Index19</div> |
| SERVICE AS REVIEWER | <div>Reviewing research papers for More then 40 JCR Peer Reviewed Journals in the last 4 years which include different known publishers such as Springer, IEEE, SAGE, MDPI, Willey Hindawi, Emarlad, etc.</div> |
| REFERENCES | <div>Furnished upon request of supporting documents. The publication List is attached with relevant details.</div> <div> <div>1. Dr. Kifayat Ullah (Ex-HoD)</div> <div>Associate Professor</div> <div>Department of Computer and Software Technology, University of Swat</div> <div>E-mail: kifayat@uswat.edu.pk, Cell # +923459191398</div> </div> <div> <div>2. Prof. Merit. Dr. M. Daud Awan (PhD Supervisor)</div> <div>Dean Faculty of Computer Science</div> <div>Preston University Islamabad Campus</div> <div>Email: drdaudawan@hotmail.com,</div> <div>drdaudawan@preston.edu.pk, Cell #+923215682914</div> </div> <div> <div>3. Dr. Yasser Alharbi (Research Collaborator)</div> <div>Assistant Professor</div> <div>College of Computer Science and Engineering, University of Ha'il, Saudi Arabia</div> <div>E-mail: y.alharbi@uoh.edu.sa, Cell # +966554379555</div> </div> <div> <div>4. Dr. Arif Ur Rahman (Research Collaborator)</div> <div>Associate Professor</div> <div>Department of Computer Science, Behria University Islamabad</div> <div>Fellow Researcher at Free University of Bozen-Bolzano Italy</div> <div>Email: arif.buic@bahria.edu.pk, Cell # +923368811644</div> </div> |

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 |

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|-----|---|----------------|------|
| 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 |

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|-----|---|-------------|------|
| | 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 |

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|-----|---|----------------|------|
| | 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 |

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|-----|---|-------------|------|
| | 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 | 1.16 | 2019 |
| 41. | Using Text Processing Techniques for Linking News Stories for Digital Preservation M Khan Faculty of Computer Science, Preston University Kohat, Islamabad Campus, HEC ... | Thesis | 2018 |
| 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 ... | 1.3 | 2018 |
| 43. | Term-based Approach for Linking Digital News Stories M Khan, AU Rahman, MD Awan Digital Libraries and Multimedia Archives. IRCDL 2018. Communications in ... | Conference | 2018 |
| 44. | User Friendly Pashto Text Editor SS Khan, M Khan International Journal of Advanced Engineering, Management and Science 3 (7 ... | ISI Indexed | 2017 |
| 45. | Exploring the Digital World of Newspaper Archives M Khan, AU Rahman, MD Awan A Science and Technology Journal, Portugal 32 (06), 430-449 | 1.3 | 2017 |
| 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 ... | ISI Indexed | 2017 |
| 47. | "PashApp" A User Friendly Pashto Text Editor SS Khan, M Khan, G Ullah 2nd International Conference on Emerging Trends in Engineering, Management ... | Conference | 2016 |
| 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 | ISI Indexed | 2016 |
| 49. | Normalizing digital news-stories for preservation M Khan, AU Rahman, MD Awan, SM Alam 2016 Eleventh International Conference on Digital Information Management ... | Conference | 2016 |
| 50. | Digital news story preservation framework M Khan, AU Rahman Proceedings of Digital Libraries: Providing Quality Information: 17th ... | Conference | 2015 |
| 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 | ISI Indexed | 2014 |
| 52. | Single Level Drill Down Interactive Visualization Technique for Descriptive Data Mining Results | ISI Indexed | 2014 |

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|-----|---|-----------------------|-------------|
| | 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> |