

# Usman Qamar

Professor

College of Electrical & Mechanical Engineering

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## About

Dr. Usman Qamar is working as Professor in the College of Electrical & Mechanical Engineering. Dr. Usman Qamar has a PhD in Data Sciences. Dr. Usman Qamar has published 145 research articles & conference papers having a citation count of 2383, carried out 0 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Data Sciences</b> University of Manchester , England	2005 - 2008
<b>MPhil in Big Data</b> University of Manchester , England	2003 - 2005
<b>MSc in Computer Systems Design</b> University of Manchester , England	2002 - 2003
<b>BE in Computer Engineering</b> NUST, Islamabad , Pakistan	1998 - 2001

## Experience

<b>Professor</b> College of Electrical & Mechanical Engineering	2021- Present
<b>Associate Professor</b> College of Electrical & Mechanical Engineering	2017 - 2021
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2015 - 2017
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2014 - 2015
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2012 - 2014
<b>Assistant Professor</b> College of Electrical & Mechanical Engineering	2011 - 2012

Awards

<b>Tamgha--i-Imtiaz</b> Awarded TIM by the President Islamic Republic of Pakistan	2024
<b>HEC Best Book Award</b> HEC best book award. 2017/18 at 7th Outstanding Research awards by Higher Education Commission, Pakistan	2019
<b>NUST Best Researcher</b> Best overall NUST University Researcher Award 2016	2018
<b>British Council Fellow</b> British Council Fellowship 2018	2018
<b>HEC Best Researcher</b> Best Researcher of Pakistan 2015/16 at 6th Outstanding Research awards by Higher Education Commission, Pakistan	2018
<b>HEC Best Papers</b> Two best research paper awards at 6th Outstanding Research awards by Higher Education Commission, Pakistan	2018
<b>Gold in R&amp;D</b> Gold in Research & Development category by Pakistan Software Houses Association (P@SHA) ICT Awards 2017	2017
<b>Charles Wallace</b> Charles Wallace Fellowship 2016/17	2017
<b>EME Best Researcher</b> Best NUST College of E&ME, Researcher Award 2016/17	2017
<b>Int Professional Ach</b> Finalist of the British Council's International Professional Achievement Award 2016/17	2017
<b>Gold in R&amp;D</b> Gold in Research & Development category by Pakistan Software Houses Association (P@SHA) ICT Awards 2013	2013
<b>PhD Research Fellowship</b> PhD Research Fellowship, Engineering and Physical Sciences Research Council (EPSRC), UK	2002

Research Articles

<b>The price of innovation: Decoding organizational stressors and strains in the lives of software professionals</b> <i>Wasi Haider Butt Usman Qamar Uzair Khaleeq Uz Zaman Sadia Khalid Uzair Rasheed</i> <i>Journal of Workplace Behavioral Health</i> , Pages 1-49 <b>Impact Factor:</b> 1.500   <b>Quartile:</b> 3 <b>DOI:</b> <a href="https://doi.org/10.1080/15555240.2025.2491418">https://doi.org/10.1080/15555240.2025.2491418</a>	2025
<b>A novel data driven anticipatory framework for the communicable syndrome</b> <i>Tahira Sadaf Usman Qamar Shoab Ahmed Khan Sameera Amjad</i> <i>Engineering Applications of Artificial Intelligence</i> , Volume 132, Article Number 107929 <b>Impact Factor:</b> 7.500   <b>Quartile:</b> 1   <b>Citations:</b> 1 <b>DOI:</b> <a href="https://doi.org/10.1016/j.engappai.2024.107929">https://doi.org/10.1016/j.engappai.2024.107929</a>	2024
<b>A computationally efficient approximation calculation method in dominance-based rough set approach</b> <i>Usman Qamar Muhammad Summair Raza</i> <i>Applied Soft Computing</i> , Volume 148, Article Number 110926 <b>Impact Factor:</b> 8.7   <b>Quartile:</b> 1   <b>Citations:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.1016/j.asoc.2023.110926">https://doi.org/10.1016/j.asoc.2023.110926</a>	2023
<b>Process Parameter Optimization of Additively Manufactured Parts using Intelligent Manufacturing</b> <i>Rizwan Ur Rehman Uzair Khaleeq uz Zaman Shahid Aziz Hamid Jabbar Adnan Shujah Shaheer Khaleequzzaman Amir Hamza Usman Qamar Dong Won Jung</i> <i>Sustainability</i> , Volume 14(22), Article Number 15475 <b>Impact Factor:</b> 3.889   <b>Quartile:</b> 2   <b>Citations:</b> 4 <b>DOI:</b> <a href="https://doi.org/10.3390/su142215475">https://doi.org/10.3390/su142215475</a>	2022
<b>A parallel rule-based approach to compute rough approximations of dominance based rough set theory</b>	2022

<p><i>Faryal Nosheen Usman Qamar Muhammad Summair Raza</i>  <i>Engineering Applications of Artificial Intelligence</i> , Volume 115, Article Number 105285</p> <p><b>Impact Factor:</b> 7.802   <b>Quartile:</b> 1   <b>Citations:</b> 7  <b>DOI:</b> <a href="https://doi.org/10.1016/j.engappai.2022.105285">https://doi.org/10.1016/j.engappai.2022.105285</a></p>	2022
<p><b>Redefining preliminaries of dominance-based rough set approach</b></p> <p><i>Faryal Nosheen Usman Qamar Summair Raza</i>  <i>Soft Computing</i> , Volume 26, Issue 3, Pages 977-1002</p> <p><b>Impact Factor:</b> 3.732   <b>Quartile:</b> 2   <b>Citations:</b> 6  <b>DOI:</b> <a href="https://doi.org/10.1007/s00500-021-06619-y">https://doi.org/10.1007/s00500-021-06619-y</a></p>	2021
<p><b>GenF: A longevity predicting framework to aid public health sectors</b></p> <p><i>Sadia Khalid Usman Qamar Uzair Rasheed</i>  <i>Informatics in Medicine Unlocked</i> , Volume 26, Article Number 100751</p> <p><b>Impact Factor:</b> 0   <b>Citations:</b> 2  <b>DOI:</b> <a href="https://doi.org/10.1016/j.imu.2021.100751">https://doi.org/10.1016/j.imu.2021.100751</a></p>	2021
<p><b>Efficient Contact Tracing for pandemics using blockchain</b></p> <p><i>Nida Bar Usman Qamar Ayesha Khalid</i>  <i>Informatics in Medicine Unlocked</i> , Volume 26, Article Number 100742</p> <p><b>Impact Factor:</b> 0   <b>Citations:</b> 15  <b>DOI:</b> <a href="https://doi.org/10.1016/j.imu.2021.100742">https://doi.org/10.1016/j.imu.2021.100742</a></p>	2021
<p><b>Phonocardiogram signal analysis for classification of Coronary Artery Diseases using MFCC and 1D adaptive local ternary patterns</b></p> <p><i>Khushbakht Iqtidar Usman Qamar Sumair Aziz Muhammad Umar Khan</i>  <i>Computers in Biology and Medicine</i> , Volume 138, Article Number 104926</p> <p><b>Impact Factor:</b> 6.698   <b>Quartile:</b> 1   <b>Citations:</b> 39  <b>DOI:</b> <a href="https://doi.org/10.1016/j.combiomed.2021.104926">https://doi.org/10.1016/j.combiomed.2021.104926</a></p>	2021
<p><b>Blood Glucose Level Prediction of Diabetic Type 1 Patients Using Nonlinear Autoregressive Neural Networks</b></p> <p><i>Usman Qamar Muhammad Asad Muhammad Abbas</i>  <i>Journal of Healthcare Engineering</i> , Volume 2021, Article ID 6611091, 7 pages</p> <p><b>Impact Factor:</b> 3.822   <b>Quartile:</b> 2   <b>Citations:</b> 15  <b>DOI:</b> <a href="https://doi.org/10.1155/2021/6611091">https://doi.org/10.1155/2021/6611091</a></p>	2021
<p><b>Classification of cardiac disorders using 1D local ternary patterns based on pulse plethysmograph signals</b></p> <p><i>Usman Qamar Sumair Aziz Muhammad Awais Muhammad Umar Khan Khushbakht Iqtidar</i>  <i>Expert Systems</i> , Pages 1-17, Article Number e12664</p> <p><b>Impact Factor:</b> 2.812   <b>Quartile:</b> 2   <b>Citations:</b> 21  <b>DOI:</b> <a href="https://onlinelibrary.wiley.com/doi/10.1111/exsy.12664">https://onlinelibrary.wiley.com/doi/10.1111/exsy.12664</a></p>	2021
<p><b>An optimized method to calculate approximations in Dominance based Rough Set Approach</b></p> <p><i>Usman Qamar Aleena Ahmad Muhammad Summair Raza</i>  <i>Applied Soft Computing Journal</i> , Volume 97, Part B, Article Number 106731</p> <p><b>Impact Factor:</b> 6.725   <b>Quartile:</b> 1   <b>Citations:</b> 14  <b>DOI:</b> <a href="https://doi.org/10.1016/j.asoc.2020.106731">https://doi.org/10.1016/j.asoc.2020.106731</a></p>	2020
<p><b>Using Blockchain for Electronic Health Records</b></p> <p><i>Usman Qamar Ayesha Shahnaz Ayesha Khalid</i>  <i>IEEE Access</i> , Volume 7, Pages 147782 - 147795</p> <p><b>Impact Factor:</b> 3.745   <b>Quartile:</b> 1   <b>Citations:</b> 468  <b>DOI:</b> 10.1109/ACCESS.2019.2946373</p>	2019
<p><b>A parallel approach to calculate lower and upper approximations in dominance based rough set theory</b></p> <p><i>Usman Qamar Muhammad Summair Raza</i>  <i>Applied Soft Computing</i> , Volume 84, Article Number 105699</p> <p><b>Impact Factor:</b> 5.472   <b>Quartile:</b> 1   <b>Citations:</b> 23  <b>DOI:</b> 10.1016/j.asoc.2019.105699</p>	2019
<p><b>HCF-CRS: A Hybrid Content based Fuzzy Conformal Recommender System for providing recommendations with confidence</b></p> <p><i>Sundus Ayyaz Usman Qamar Raheel Nawaz</i></p>	2018

<i>PLoS ONE</i> , NULL	
<b>Impact Factor:</b> 2.776   <b>Quartile:</b> 2   <b>Citations:</b> 38 <b>DOI:</b> 10.1371/journal.pone.0204849	
<b>WebMAC: A web based clinical expert system</b> <i>Saba Bashir Usman Qamar Farhan Hassan Khan</i> <i>Information Systems Frontiers</i> , Volume: 20, Issue: 5, (Special Issue: SI), Pages 1135-1151 <b>Impact Factor:</b> 2.539   <b>Quartile:</b> 2   <b>Citations:</b> 8 <b>DOI:</b> 10.1007/s10796-016-9718-y	2018
<b>A parallel rough set based dependency calculation method for efficient feature selection</b> <i>Muhammad Summair Raza Usman Qamar</i> <i>Applied Soft Computing</i> , NULL <b>Impact Factor:</b> 4.873   <b>Quartile:</b> 1   <b>Citations:</b> 27 <b>DOI:</b> 10.1016/j.asoc.2017.10.006	2018
<b>A heuristic based dependency calculation technique for rough set theory</b> <i>Muhammad Summair Raza Usman Qamar</i> <i>Pattern Recognition</i> , NULL <b>Impact Factor:</b> 5.898   <b>Quartile:</b> 1   <b>Citations:</b> 25 <b>DOI:</b> 10.1016/j.patcog.2018.04.009	2018
<b>Enhanced cross-domain sentiment classification utilizing a multi-source transfer learning approach</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Soft Computing</i> , NULL <b>Impact Factor:</b> 2.784   <b>Quartile:</b> 2   <b>Citations:</b> 22 <b>DOI:</b> 10.1007/s00500-018-3187-9	2018
<b>Feature selection using rough set-based direct dependency calculation by avoiding the positive region</b> <i>Muhammad Summair Raza Usman Qamar</i> <i>International Journal of Approximate Reasoning</i> , NULL <b>Impact Factor:</b> 1.982   <b>Quartile:</b> 3   <b>Citations:</b> 42 <b>DOI:</b> 10.1016/j.ijar.2017.10.012	2018
<b>Redefining core preliminary concepts of classic Rough Set Theory for feature selection</b> <i>Muhammad Summair Raza Usman Qamar</i> <i>Engineering Applications of Artificial Intelligence</i> , Volume 65, October 2017, Pages 375-387 <b>Impact Factor:</b> 2.819   <b>Quartile:</b> 1   <b>Citations:</b> 12 <b>DOI:</b> 10.1016/j.engappai.2017.08.003	2017
<b>URWF: user reputation based weightage framework for twitter micropost classification</b> <i>Asad Bukhari Usman Qamar Ume Ghazia</i> <i>Information Systems and e-Business Management</i> , Volume 15 Issue 3, Pages 623-659 <b>Impact Factor:</b> 1.032   <b>Quartile:</b> 4   <b>Citations:</b> 7 <b>DOI:</b> 10.1007/s10257-016-0320-0	2017
<b>Lexicon based semantic detection of sentiments using expected likelihood estimate smoothed odds ratio</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Artificial Intelligence Review</i> , Volume: 48 Issue: 1 Pages: 113-138 <b>Impact Factor:</b> 3.814   <b>Quartile:</b> 1   <b>Citations:</b> 28 <b>DOI:</b> 10.1007/s10462-016-9496-4	2017
<b>A semi-supervised approach to sentiment analysis using revised sentiment strength based on SentiWordNet</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Knowledge and Information Systems</i> , Volume: 51, Issue: 3, Pages: 851-872 <b>Impact Factor:</b> 2.247   <b>Quartile:</b> 2   <b>Citations:</b> 82 <b>DOI:</b> 10.1007/s10115-016-0993-1	2017
<b>eSAP: A decision support framework for enhanced sentiment analysis and polarity classification</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Information Sciences</i> , Volumes 367–368, Pages 862-873 <b>Impact Factor:</b> 4.832   <b>Quartile:</b> 1   <b>Citations:</b> 62 <b>DOI:</b> 10.1016/j.ins.2016.07.028	2016

<b>A Multicriteria Weighted Vote-Based Classifier Ensemble for Heart Disease Prediction</b> <i>Saba Bashir Usman Qamar Farhan Hassan Khan</i> <i>Computational Intelligence</i> , Volume 32, Issue 4, Pages 615-645 <b>Impact Factor:</b> 0.964   <b>Quartile:</b> 4   <b>Citations:</b> 33 <b>DOI:</b> 10.1111/coin.12070	2016
<b>Multi-Objective Model Selection (MOMS)-based Semi-Supervised Framework for Sentiment Analysis</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Cognitive Computation</i> , Volume: 8 Issue: 4 Pages: 614-628 <b>Impact Factor:</b> 3.441   <b>Quartile:</b> 1   <b>Citations:</b> 26 <b>DOI:</b> 10.1007/s12559-016-9386-8	2016
<b>A Majority Vote Based Classifier Ensemble for Web Service Classification</b> <i>Usman Qamar Rozina Niza Saba Bashir Farhan Hassan Khan</i> <i>Business and Information Systems Engineering</i> , Volume 58, Issue 4, Pages 249-259 <b>Impact Factor:</b> 3.392   <b>Quartile:</b> 1   <b>Citations:</b> 20 <b>DOI:</b> 10.1007/s12599-015-0407-z	2016
<b>An incremental dependency calculation technique using rough sets for feature selection</b> <i>Muhammad Summair Raza Usman Qamar</i> <i>Information Sciences</i> , Volume: 343, Pages: 41-65 <b>Impact Factor:</b> 4.832   <b>Quartile:</b> 1   <b>Citations:</b> 62 <b>DOI:</b> 10.1016/j.ins.2016.01.044	2016
<b>SWIMS: Semi-Supervised Subjective Feature Weighting and Intelligent Model Selection for Sentiment Analysis</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Knowledge-Based Systems, Elsevier</i> , Volume: 100 Pages: 97-111 <b>Impact Factor:</b> 4.529   <b>Quartile:</b> 1   <b>Citations:</b> 55 <b>DOI:</b> 10.1016/j.knosys.2016.02.011	2016
<b>Senti-CS: Building a lexical resource for sentiment analysis using subjective feature selection and normalized Chi-Squarebased feature weight generation</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Expert Systems</i> , Volume: 33 Issue: 5 Pages: 489-500 <b>Impact Factor:</b> 1.180   <b>Quartile:</b> 3   <b>Citations:</b> 14 <b>DOI:</b> 10.1111/exsy.12161	2016
<b>HMV: A medical decision support framework using multi-layer classifiers for disease prediction</b> <i>Saba Bashir Usman Qamar Farhan Hassan Khan Lubna Naseem</i> <i>Journal of Computational Science</i> , Volume 13, Pages 10-25 <b>Impact Factor:</b> 1.748   <b>Quartile:</b> 2   <b>Citations:</b> 72 <b>DOI:</b> doi:10.1016/j.jocs.2016.01.001	2016
<b>IntelliHealth: A medical decision support application using a novel weighted multi-layer classifier ensemble framework</b> <i>Saba Bashir Usman Qamar Farhan Hassan Khan</i> <i>Journal of Biomedical Informatics</i> , Volume: 59, Pages: 185-200 <b>Impact Factor:</b> 2.753   <b>Quartile:</b> 1   <b>Citations:</b> 132 <b>DOI:</b> 10.1016/j.jbi.2015.12.001	2016
<b>SentiMI: Introducing point-wise mutual information with SentiWordNet to improve sentiment polarity detection</b> <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Applied Soft Computing</i> , Volume 39, Pages 140-153 <b>Impact Factor:</b> 3.541   <b>Quartile:</b> 1   <b>Citations:</b> 94 <b>DOI:</b> https://doi.org/10.1016/j.asoc.2015.11.016	2016
<b>A Framework for Classifying Unstructured Data of Cardiac Patients: A Supervised Learning Approach</b> <i>Iqra Basharat Ali Raza Anjum Mamuna Fatima Usman Qamar Shoab Ahmed Khan</i> <i>International Journal of Advanced Computer Science and Applications</i> , Vol. 7, No. 2, Pages 133-141 <b>Impact Factor:</b> 0 <b>DOI:</b> 10.14569/IJACSA.2016.070218	2016

<b>Pulmonary Nodules Detection and Classification Using Hybrid Features from Computerized Tomographic Images</b>  <i>Sheeraz Akram Muhammad Younus Javed Usman Akram Usman Qamar Ali Hassan</i> <i>Journal of Medical Imaging and Health Informatics</i> , Volume 6, Number 1, Pages 252-259 <b>Impact Factor:</b> 0.621   <b>Quartile:</b> 4   <b>Citations:</b> 41 <b>DOI:</b> 10.1166/jmihi.2016.1600	2016
<b>Text Mining Through Label Induction Grouping Algorithm Based Method</b>  <i>Gulshan Saleem Nisar Ahmed Usman Qamar</i> <i>Science International</i> , Vol. 28, Issue 1, Pages 265-272 <b>Impact Factor:</b> - <b>DOI:</b> -	2016
<b>A text mining based approach for web service classification</b>  <i>Usman Qamar Rozina Nisa</i> <i>INFORMATION SYSTEMS AND E-BUSINESS MANAGEMENT</i> , 13 Issue: 4 Pages: 751-768 Special Issue: SI <b>Impact Factor:</b> 0.953   <b>Quartile:</b> 3   <b>Citations:</b> 27 <b>DOI:</b> 10.1007/s10257-014-0252-5	2015
<b>Heterogeneous classifiers fusion for dynamic breast cancer diagnosis using weighted vote based ensemble</b>  <i>Saba Bashir Usman Qamar Farhan Hassan Khan</i> <i>Quality and Quantity</i> , Volume: 49 Issue: 5 Pages: 2061-2076 <b>Impact Factor:</b> 0.867   <b>Quartile:</b> 2   <b>Citations:</b> 66 <b>DOI:</b> 10.1007/s11135-014-0090-z	2015
<b>A Relation Extraction Framework for Biomedical Text Using Hybrid Feature Set</b>  <i>Abdul Wahab Muzaffar Farooque Azam Usman Qamar</i> <i>Computational and Mathematical Methods in Medicine</i> , Volume 2015, Article ID 910423, 12 pages <b>Impact Factor:</b> 0.887   <b>Quartile:</b> 3   <b>Citations:</b> 41 <b>DOI:</b> 10.1155/2015/910423	2015
<b>Content-Specific Unigrams and Syntactic Phrases to Enhance Senti Word Net Based Sentiment Classification</b>  <i>Muhammad Latif Usman Qamar Abdul Wahab Muzaffar</i> <i>International Journal of Machine Learning and Computing</i> , Volume 5(4), Pages 307-312 <b>Impact Factor:</b> N/A <b>DOI:</b> DOI:10.7763/IJMLC.2015.V5.525	2015
<b>Building normalized sentiMI to enhance semi-supervised sentiment analysis, Journal of Intelligent and Fuzzy Systems</b>  <i>Farhan Hassan Khan Usman Qamar Saba Bashir</i> <i>Journal of Intelligent &amp; Fuzzy Systems</i> , Vol. 29, Issue no. 5, Pages 1805-1816 <b>Impact Factor:</b> 1.004   <b>Quartile:</b> 3   <b>Citations:</b> 11 <b>DOI:</b> 10.3233/IFS-151658	2015
<b>A novel ensemble for heart disease prediction bootstrap aggregation with multi-objective optimized voting.</b>  <i>Saba Bashir Usman Qamar Farhan Hassan Khan</i> <i>Australasian physical &amp; engineering sciences in medicine</i> , Volume: 38 Issue: 2 Pages: 305-323 <b>Impact Factor:</b> 0.676   <b>Quartile:</b> 4   <b>Citations:</b> 70 <b>DOI:</b> 10.1007/s13246-015-0337-6	2015
<b>Developing an expert system based on association rules and predicate logic for earthquake prediction</b>  <i>Usman Qamar Aqdas Ikram</i> <i>Knowledge-Based Systems</i> , Volume 75, Pages 87-103 <b>Impact Factor:</b> 3.325   <b>Quartile:</b> 1   <b>Citations:</b> 60 <b>DOI:</b> 10.1016/j.knosys.2014.11.024	2015
<b>Artificial Neural Network based Classification of Lungs Nodule using Hybrid Features from Computerized Tomographic Images</b>  <i>Sheeraz Akram Muhammad Younus Javed Usman Qamar Aasia Khanum Ali Hassan</i> <i>Applied Mathematics &amp; Information Sciences</i> , Volume 9, No. 1, Pages 183-195 <b>Impact Factor:</b> -   <b>Citations:</b> 32	2015

DOI: <http://dx.doi.org/10.12785/amis/090124>

<b>MV5: A Clinical Decision Support Framework for Heart Disease Prediction Using Majority Vote Based Classifier Ensemble</b> <i>Usman Qamar Farhan Hassan Khan M. Younus Javed Saba Bashir</i> <i>Arabian Journal for Science and Engineering</i> , Volume: 39 Issue: 11 Pages: 7771-7783 <b>Impact Factor:</b> N/A   <b>Citations:</b> 58 <b>DOI:</b> 10.1007/s13369-014-1315-0	2014
<b>A rule-based expert system for earthquake prediction</b> <i>Usman Qamar Aqdas Ikram</i> <i>Journal of Intelligent Information Systems</i> , Volume 43, Issue 2, Pages 205-230 <b>Impact Factor:</b> 0.886   <b>Quartile:</b> 3   <b>Citations:</b> 20 <b>DOI:</b> 10.1007/s10844-014-0316-5	2014
<b>Protocol-Aware Radio Frequency Jamming in Wi-Fi and Commercial Wireless Networks, Journal of Communications and Networks</b> <i>Abid Hussain Nazar Abbas Saqib Usman Qamar Muhammad Zia Hassan Mahmood</i> <i>Journal of communication and networks</i> , Vol. 16, No. 4 <b>Impact Factor:</b> 1.007   <b>Quartile:</b> 3   <b>Citations:</b> 26 <b>DOI:</b> 10.1109/JCN.2014.000069	2014
<b>A dissimilarity measure based Fuzzy c-means (FCM) clustering algorithm</b> <i>Usman Qamar</i> <i>Journal of Intelligent and Fuzzy Systems</i> , Volume 26, Issue 1, Pages 229-238 <b>Impact Factor:</b> 1.812   <b>Quartile:</b> 2   <b>Citations:</b> 21 <b>DOI:</b> 10.3233/IFS-120730	2014
<b>Global Optimization Ensemble Model for Classification Methods</b> <i>Usman Qamar Hina Anwar Abdul Wahab Muzaffar Qureshi</i> <i>The Scientific World Journal</i> , Article Number: 313164, 9 Pages <b>Impact Factor:</b> N/A   <b>Citations:</b> 18 <b>DOI:</b> 10.1155/2014/313164	2014
<b>TOM: Twitter opinion mining framework using hybrid classification scheme</b> <i>Farhan Hassan Khan Saba Bashir Usman Qamar</i> <i>Decision Support Systems</i> , Volume 57 Pages 245-257 <b>Impact Factor:</b> 2.313   <b>Quartile:</b> 1   <b>Citations:</b> 284 <b>DOI:</b> 10.1016/j.dss.2013.09.004	2014
<b>Texture Classification Using Rotation- and Scale-Invariant Gabor Texture Features</b> <i>Farhan Riaz Ali Hassan Usman Qamar Saad Rehman</i> <i>IEEE Signal Processing Letters</i> , Volume: 20, Issue: 6, Pages: 607-610 <b>Impact Factor:</b> 1.639   <b>Quartile:</b> 2   <b>Citations:</b> 90 <b>DOI:</b> 10.1109/LSP.2013.2259622	2013
<b>Hidden Members and Key Players Detection in Covert Networks Using Multiple Heterogeneous Layers</b> <i>Wasi Haider Butt Usman Qamar Shoab A. Khan</i> <i>Journal of Industrial and Intelligent Information</i> , Vol. 2, Issue No. 2, Pages 142-146 <b>Impact Factor:</b> 0 <b>DOI:</b> 10.12720/jiii.2.2.142-146	2013

Conference Proceedings

<b>A Multi-Agent Deep Reinforcement Learning Framework for Personalized Cancer Treatment Decision Support in Dynamic Clinical Scenarios</b> <i>Madeha Arif Usman Qamar Mehwish Naseer</i> <i>2024 26th International Multi-Topic Conference (INMIC)</i> , res.country(177,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/INMIC64792.2024.11004375	2024
<b>Ontology Based Test Case Reduction in Regression Testing</b> <i>Ummer Farooq Usman Qamar Arslan Shaukat Abu Bakar Zubia Ashraf Mehwish Naz</i> <i>2023 26th International Conference on Computer and Information Technology, ICCIT 2023</i> , res.country(19,) <b>Citations:</b> N/A	2023

DOI: 10.1109/ICCIT60459.2023.10441049	
<b>Common Problems in Software Requirement Engineering Process: An Overview of Pakistani Software Industry</b>	2023
<i>Sadia Khalid Uzair Rasheed Mishal Muneer Wasi Haider Butt Rabia Mehmood Usman Qamar</i> 2023 4th International Conference on Advancements in Computational Sciences, ICACS 2023, res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICACS55311.2023.10089703	
<b>Relationship between Organization's Physical and Psychological Environment and Employees' Mental Satisfaction: An Empirical Analysis of Employee Turnover in Software Industry</b>	2022
<i>Sadia Khalid Usman Qamar Uzair Rasheed Wasi Haider Butt</i> 2022 16th International Conference on Open Source Systems and Technologies (ICOSST), res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICOSST57195.2022.10016849	
<b>A Decision Making Approach for Street Lockdown to Cope with Covid-19 Cases by Using Shortest Path Selection Mechanism for Unplanned Colonies</b>	2022
<i>Tahira Sadaf Shoab A Khan Usman Qamar</i> 2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICoDT255437.2022.9787478	
<b>Integrated Product-Process Design: Conceptual Framework for Data Driven Manufacturing Resource Selection</b>	2022
<i>Uzair Khaleeq uz Zaman Mujtaba Rafique Ghoto Ali Siadat Aamer Ahmed Baqai Anas Bin Aqeel Usman Qamar</i> 2022 2nd International Conference on Digital Futures and Transformative Technologies (IcoDT2), res.country(177,)	
Citations: N/A	
DOI: 10.1109/ICoDT255437.2022.9787394	
<b>A Novel Natural Language Processing approach to automatically Visualize Entity-Relationship Model from Initial Software Requirements</b>	2021
<i>Wasi Haider Butt Imran Ahsan Mudassar Adeel Ahmad Usman Qamar</i> 2021 International Conference on Communication Technologies (ComTech), res.country(177,)	
Citations: N/A	
DOI: 10.1109/ComTech52583.2021.9616949	
<b>Tool Support for Green Android Development: A Systematic Mapping Study</b>	2020
<i>Usman Qamar Iffat Fatima Hina Anwar Dietmar Pfahl</i> 15th International Conference on Software Technologies, res.country(75,)	
Citations: N/A	
DOI: 10.5220/0009770304090417	
<b>Improving K-Mean Method by Finding Initial Centroid Points</b>	2020
<i>Usman Qamar Andleeb Aslam Reda Khan Pakizah Saqib</i> 22nd International Conference on Advanced Communication Technology (ICACT), res.country(121,)	
Citations: N/A	
DOI: 10.23919/ICACT48636.2020.9061522	
<b>Computationally Efficient Approximation Algorithm of Dominance Based Rough Set Approach</b>	2020
<i>Usman Qamar Aleena Ahmad Summair Raza</i> 22nd International Conference on Advanced Communication Technology (ICACT), res.country(121,)	
Citations: N/A	
DOI: 10.23919/ICACT48636.2020.9061399	
<b>Weight and Cluster Based Test case Prioritization Technique</b>	2019
<i>Zumar Khalid Usman Qamar</i> IEEE 10th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON), res.country(38,)	
Citations: N/A	
DOI: 10.1109/IEMCON.2019.8936202	
<b>Building a Biomedical Ontology for Respiratory Tract Infection</b>	2019
<i>Usman Qamar Kanwal Wahab Muhammad Qasim Riaz Khawaja Sarmad Arif</i> The 7th International Conference on Computer and Communications Management, res.country(217,)	
Citations: N/A	



<b>DOI:</b> 10.1145/3348445.3348461	
<b>Machine Learning Techniques for Heart Disease Datasets: A Survey</b> Younas Khan Usman Qamar Nazish Yousaf Aimal Khan <i>International Conference on Machine Learning and Computing (ICMLC), 2019, res.country(48,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3318299.3318343	2019
<b>A systematic literature review of continuous Blood glucose monitoring and suggesting-quantity of insulin for diabetic type 1 patient OR artificial pancreas</b> Muhammad Asad Usman Qamar Rahmat Ullah Safdar Aimal Khan <i>2019 11th International Conference on Machine Learning and Computing, res.country(48,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3318299.3318352	2019
<b>Blood Glucose Level Prediction with minimal inputs using feedforward neural network for diabetic type 1 Patients</b> Muhammad Asad Usman Qamar Babar Zeb Younas Khan Aimal Khan <i>2019 11th International Conference on Machine Learning and Computing, res.country(48,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/3318299.3318354	2019
<b>Web Services Classification using an Improved Text Mining Technique</b> Usman Qamar Sidra Shaf <i>11th IEEE International Conference on Service Oriented Computing and Applications (IEEE SOCA 2018), res.country(75,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/SOCA.2018.00037	2018
<b>A Comparison of Modern Localization Techniques in Wireless Sensor Networks (WSNs)</b> Maryum Hamdani Usman Qamar Wasi Haider Butt Fatima Khaliq Saad Rehman <i>Future Technologies Conference (FTC) 2018, res.country(38,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-030-02683-7_38	2018
<b>A Systematic Review of Time Series Based Spam Identification Techniques</b> Usman Qamar Iqra Muhammad Rabia Noureen <i>Proceedings of the Future Technologies Conference (FTC) 2018, res.country(38,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-030-02686-8_33	2018
<b>SimFiller: Similarity-Based Missing Values Filling Algorithm</b> Fateh ur Rehman Muhammad Abbas Sajjad Murtaza Wasi Haider Butt Usman Qamar Saad Rehman <i>13th International Conference on Digital Information Management, res.country(57,)</i> <b>Citations:</b> N/A <b>DOI:</b> N/A	2018
<b>GDGSE: Game Development with Global Software Engineering</b> Usman Qamar Alia Fatima Tayyaba Rasool <i>2018 IEEE Games, Entertainment, Media Conference (GEM), res.country(101,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/GEM.2018.8516498	2018
<b>Automated Misspelling Detection and Correction in Clinical Free-text Records</b> Usman Qamar Aiman Khan Nazir Iqra Zafar Asma Shaheen Alia Fatima Bilal Maqbool <i>2018 International Conference on Artificial Intelligence and Big Data (ICAIBD), res.country(48,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICAIBD.2018.8396209	2018
<b>Implementation and Analysis of Novel Clustering Algorithm Without Initial Value Selection for Software Architectural Styles Data Set</b> Qadeem Khan Usman Qamar Wasi Haider Butt Saad Rehman <i>2017 International Conference on Frontiers of Information Technology (FIT), res.country(177,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/FIT.2017.00019	2017
<b>Merging Prototyping with Agile Software Development Methodology</b>	2017

Usman Qamar Sara Tanvir Mamoon Saifdar Hanny Tufail

International Conference on Engineering, Computing & Information Technology (ICECIT 2017), res.country(157,)

Citations: N/A

DOI: N/A

**Dimensionality Reduction Approaches and Evolving Challenges in High Dimensional Data**

2017

Usman Qamar Adnan Ullah Farhan Hassan Khan Saba Bashir

1st International Conference on Internet of Things and Machine Learning, res.country(231,)

Citations: N/A

DOI: 10.1145/3109761.3158407

**Dataset Designing of Software Architectures Styles for Analysis through Data Mining Clustering**

2017

**Algorithms**

Qadeem Khan Dr. Usman Qamar Dr. Wasi Haider Butt Dr. Saad Rehman

IEEE Intelligent Systems Conference, res.country(231,)

Citations: N/A

DOI: 10.1109/IntelliSys.2017.8324325

**Semantic Analysis of Social Media and Associated Psychotic Behavior**

2017

Usman Qamar Amna Noureen Mubashir Ali

2017 13th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD), res.country(48,)

Citations: N/A

DOI: 10.1109/FSKD.2017.8393009

**Optimizing Software Project Management Staffing and Work-force Deployment Processes using Swarm**

2017

**Intelligence**

Usman Qamar Mazhar Hameed Hiba Khalid Syed Khizer Abass

IEEE SAI Computing Conference, res.country(231,)

Citations: N/A

DOI: 10.1109/SAI.2017.8252084

**Multi-Perspective Ant Colony Optimization for Mining and Understanding the Topology Oriented Big**

2017

**Data**

Usman Qamar Hiba Khalid Mazhar Hameed

25th World Congress on Engineering, res.country(231,)

Citations: N/A

DOI: [https://www.researchgate.net/publication/312084261\\_Multi-Perspective\\_Ant\\_Colony\\_Optimization\\_for\\_mining\\_and\\_understanding\\_the\\_topology\\_oriented\\_Big\\_Data](https://www.researchgate.net/publication/312084261_Multi-Perspective_Ant_Colony_Optimization_for_mining_and_understanding_the_topology_oriented_Big_Data)

**A Biomedical Ontology on Genetic Disease**

2017

Usman Qamar Aamna Iqtidar Abdul Wahab Muzaffar Saad Rehman

Second International Conference on Internet of things, Data and Cloud Computing, res.country(231,)

Citations: N/A

DOI: 10.1145/3018896.3018966

**Improving Collaborative Filtering by Selecting an Effective User Neighborhood for Recommender**

2017

**Systems**

Usman Qamar Sundus Ayyaz

18th Annual International Conference on Industrial Technology, res.country(38,)

Citations: N/A

DOI: 10.1109/ICIT.2017.7915541

**A Rough Set Based Feature Selection Approach Using Random Feature Vectors**

2016

Muhammad Summair Raza Usman Qamar

2016 International Conference on Frontiers of Information Technology (FIT), res.country(177,)

Citations: N/A

DOI: 10.1109/FIT.2016.049

**A Domain-Independent Hybrid Approach for Automatic Taxonomy Induction**

2016

Usman Qamar Bushra Zafar Ayesha Imran

2016 17th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT), res.country(48,)

Citations: N/A

DOI: 10.1109/PDCAT.2016.085

<b>Imparting Data Knowledge in Discrete Data Volumes using Crowded Agent Approach for Multi-Perspective and Visualized Big Data</b>  <i>Hiba Khalid Usman Qamar Usman Akram</i> 2016 Future Technologies Conference (FTC) , res.country(233,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/FTC.2016.7821593	2016
<b>Imparting Data Knowledge in Discrete Data Volume using Crowded Agent Approach for Multi-Perspective and Visualized Big Data</b>  <i>Hiba Khalid Usman Qamar Usman Akram</i> 2016 Future Technologies Conference (FTC) , res.country(233,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/FTC.2016.7821593	2016
<b>Business Intelligence: Self Adapting and Prioritizing Database Algorithm for Providing Big Data Insight in Domain Knowledge and Processing of Volume based Instructions based on Scheduled and Contextual Shifting of Data</b>  <i>Mazhar Hameed Usman Qamar Usman Akram</i> 2016 Future Technologies Conference (FTC) , res.country(233,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/FTC.2016.7821749	2016
<b>HL7 FHIR Compliant Data Access Model for Maternal Health Information System</b>  <i>Saadia Ismail Majed Alshmary Usman Qamar Wasi Haider Butt Khalid Latif Hafiz Farooq Ahmad</i> IEEE 16th International Conference on Bioinformatics and Bioengineering, res.country(227,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/BIBE.2016.9	2016
<b>A Novel Approach for Searching Linguistic Synonyms through Parts of Speech Tagging</b>  <i>Faiza Hussain Usman Qamar Sobh Zeb</i> 2016 IEEE/WIC/ACM International Conference on Web Intelligence (WI) , res.country(233,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/WI.2016.0076	2016
<b>Sentiment Analysis of User Reviews through Lexicon and Rule-based Approach</b>  <i>Sobh Zeb Usman Qamar Faiza Hussain</i> 18th Asia Pacific Web Conference, res.country(48,) <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-319-45835-9_5	2016
<b>Evolutionary Testing Using Particle Swarm Optimization in IOT Applications</b>  <i>Hiba Khalid Mazhar Hameed Usman Qamar</i> Proceedings of SAI Intelligent Systems Conference (IntelliSys) 2016, res.country(231,) <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-319-56991-8_26	2016
<b>A Bayesian classifiers based combination model for automatic text classification</b>  <i>Usman Qamar Amna Rahman</i> 2016 7th IEEE International Conference on Software Engineering and Service Science (ICSESS), res.country(48,) <b>Citations:</b> N/A <b>DOI:</b> 10.1109/ICSESS.2016.7883016	2016
<b>Automatic Topic Spotting in Biomedical Literature of Diseases using Fuzzy Logic</b>  <i>Sundus Ayyaz Usman Qamar</i> 2nd International Conference on Computer and Information Science and Technology (CIST'16) , res.country(38,) <b>Citations:</b> N/A <b>DOI:</b> <a href="https://www.researchgate.net/publication/301679681_Automatic_Topic_Spotting_in_Biomedical_Literature_of_diseases_using_Fuzzy_Logic">https://www.researchgate.net/publication/301679681_Automatic_Topic_Spotting_in_Biomedical_Literature_of_diseases_using_Fuzzy_Logic</a>	2016
<b>Identification and Correction of Misspelled Drugs' Names in Electronic Medical Records (EMR)</b>  <i>Usman Qamar Faiza Hussain</i> 8th International Conference on Enterprise Information Systems (ICEIS), res.country(109,) <b>Citations:</b> N/A <b>DOI:</b> 10.5220/0005911503330338	2016
<b>Building a Core Biomedical Knowledge Base</b>	2016

<p>Andleeb Shehnaz Usman Qamar Abdul Wahab Muzaffar</p> <p>2016 IEEE Second International Conference on Big Data Computing Service and Applications (BigDataService), res.country(231,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/BigDataService.2016.22</p>	
<p><b>A Hybrid Feature Selection Approach based on Heuristic and Exhaustive Algorithms using Rough Set Theory</b></p> <p>Muhammad Summair Raza Usman Qamar</p> <p>ICC '16 Proceedings of the International Conference on Internet of things and Cloud Computing, res.country(231,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1145/2896387.2896432</p>	2016
<p><b>A Novel Hybrid Classifiers based Model for Mining in Neuro-imaging</b></p> <p>A.B.N. Alvi Usman Qamar Abdul Wahab Muzaffar Wasi Haider Butt</p> <p>International Conference on Internet of things and Cloud Computing, res.country(231,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1145/2896387.2896398</p>	2016
<p><b>Text Mining Approach to Detect Spam in Emails</b></p> <p>Zahra Khan Usman Qamar</p> <p>International Conference on Innovations in Intelligent Systems and Computing Technologies, res.country(176,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> <a href="https://www.researchgate.net/publication/295737772_Text_Mining_Approach_to_Detect_Spam_in_Emails">https://www.researchgate.net/publication/295737772_Text_Mining_Approach_to_Detect_Spam_in_Emails</a></p>	2016
<p><b>A Framework for Evaluation of OWL Biomedical Ontologies based on Properties Coverage</b></p> <p>Samiullah Khan Usman Qamar Abdul Wahab Muzaffar</p> <p>2015 13th International Conference on Frontiers of Information Technology (FIT), res.country(177,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/FIT.2015.22</p>	2015
<p><b>Rule Induction using Enhanced RIPPER Algorithm for Clinical Decision Support System</b></p> <p>Bakhtawar Seerat Usman Qamar</p> <p>2015 Sixth International Conference on Intelligent Control and Information Processing (ICICIP), res.country(48,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/ICICIP.2015.7388149</p>	2015
<p><b>A Rule based Expert System for Syncope Prediction</b></p> <p>Madiha Guftar Usman Qamar</p> <p>2015 SAI Intelligent Systems Conference (IntelliSys), res.country(231,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/IntelliSys.2015.7361195</p>	2015
<p><b>A Feature Reduction Framework based on Rough Set for Bio Medical Data Sets</b></p> <p>Syed Hasnain Ali Dr. Usman Qamar Madiha Guftar Abdul Wahab Muzaffar</p> <p>Intelligent Systems Conference held from 10-11 Nov 2015 in UK, res.country(231,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/IntelliSys.2015.7361165</p>	2015
<p><b>A Novel Framework for Classification of Syncope Disease using k-means Clustering Algorithm</b></p> <p>Madiha Guftar Ammar Asjad Raja Syed Hasnain Ali Usman Qamar</p> <p>2015 SAI Intelligent Systems Conference (IntelliSys), res.country(231,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/IntelliSys.2015.7361135</p>	2015
<p><b>Influence of Key Player Detection and Removal on Efficiency and Performance of Covert Networks using Social Network Analysis</b></p> <p>Aisha Zafar Ahmad Anam Shahjahan Wasi Haider Butt Usman Qamar</p> <p>International Conference on Recent Advances in Computer Systems , res.country(233,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.2991/racs-15.2016.1</p>	2015
<p><b>Impact Analysis on Evolution Patterns of Service Oriented System</b></p> <p>Bureera Sabir Nabila Parveen Usman Qamar Abdul Wahab Muzaffar</p> <p>International Conference on Engineering, Computing and Information Technology ICECIT 2017, res.country(157,)</p> <p><b>Citations:</b> N/A</p>	2015

DOI: <a href="https://www.researchgate.net/publication/323571956_Impact_Analysis_on_Evolution_Patterns_of_Service_Oriented_Systems">https://www.researchgate.net/publication/323571956_Impact_Analysis_on_Evolution_Patterns_of_Service_Oriented_Systems</a>	
<b>Predicting Patient Drop off by Mining Hospital Data</b>	2015
<i>Saira Seemab Dr.Usman Qamar</i>	
<i>International Conference on artificial intelligence and computer science 2015 (AICS 2015), res.country(157,)</i>	
<b>Citations:</b> N/A	
DOI: <a href="https://www.researchgate.net/publication/282123829_Predicting_Patient_Drop_Off_by_Mining_Hospital_Data">https://www.researchgate.net/publication/282123829_Predicting_Patient_Drop_Off_by_Mining_Hospital_Data</a>	
<b>Analyzing Different Validation and Verification Techniques for Safety Critical Software Systems</b>	2015
<i>Waqas Ahmad Usman Qamar Shoaib Hassan</i>	
<i>2015 6th IEEE International Conference on Software Engineering and Service Science (ICSESS), res.country(48,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/ICSESS.2015.7339076	
<b>Data Flow based Test Case Generation Algorithm for Object Oriented Integration Testing</b>	2015
<i>Shahzada Zeeshan Waheed Usman Qamar</i>	
<i>2015 6th IEEE International Conference on Software Engineering and Service Science (ICSESS), res.country(48,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/ICSESS.2015.7339088	
<b>Automatic Performance Analysis of Cloud based Load Testing of Web-Application &amp; Its Comparison with Traditional Load Testing</b>	2015
<i>M.Arslan Usman Qamar Shoaib Hassan Sara Ayub</i>	
<i>2015 6th IEEE International Conference on Software Engineering and Service Science (ICSESS), res.country(48,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/ICSESS.2015.7339023	
<b>Purification of Requirement Engineering Model for Rapid Application Development</b>	2015
<i>Shoaib Hassan Usman Qamar Muhammad Arslan Idris</i>	
<i>6th International Conference on Software Engineering and Service Science held from 23-25 Sep 2015 in China res.country(48,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/ICSESS.2015.7339074	
<b>Software Reverse Engineering to Requirement Engineering for Evolution of Legacy System</b>	2015
<i>Shoaib Hassan Usman Qamar Taimoor Hassan Muhammad Waqas</i>	
<i>2015 5th International Conference on IT Convergence and Security (ICITCS), res.country(157,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/ICITCS.2015.7293021	
<b>Towards Service Evaluation and Ranking Model for Cloud Infrastructure Selection</b>	2015
<i>Muhammad Zubair Khan Usman Qamar</i>	
<i>2015 IEEE 12th Intl Conf on Ubiquitous Intelligence and Computing , res.country(48,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/UIC-ATC-ScalCom-CBDCoM-IoP.2015.232	
<b>Signature Automation of UMLS Concepts: An Un-Supervised Named Entity Recognition Framework for Classification of DNA and RNA in Biological Text</b>	2015
<i>Usman Qamar Muhammad Ashraf Khan Niazi Abdul Wahab Muzaffar Muhammad Latif</i>	
<i>2015 Science and Information Conference (SAI) , res.country(231,)</i>	
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DOI: 10.1109/SAI.2015.7237223	
<b>A Hybrid Approach to Extract and Classify Relation from Biomedical Text</b>	2015
<i>Abdul Wahab Muzaffar Farooque Azam Usman Qamar Shumyla Rasheed Mir Muhammad Latif</i>	
<i>IKE'15 - The 14th International Conference on Information &amp; Knowledge Engineering, res.country(233,)</i>	
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DOI: <a href="https://www.researchgate.net/publication/276271142_A_Hybrid_Approach_to_Extract_and_Classify_Relation_from_Biomedical_Text">https://www.researchgate.net/publication/276271142_A_Hybrid_Approach_to_Extract_and_Classify_Relation_from_Biomedical_Text</a>	
<b>Improved Single-Label Text Categorization by Instance Filtration</b>	2015
<i>Kashif Ullah Khan Usman Qamar</i>	
<i>2015 Ninth International Conference on Complex, Intelligent, and Software Intensive Systems, res.country(31,)</i>	
<b>Citations:</b> N/A	
DOI: 10.1109/CISIS.2015.10	
<b>Rule Based Inference Engine to Forecast the Prevalence of Congenital Malformations in Live Births</b>	2015
<i>Fareeha Choudhry Usman Qamar Madeeha Chaudhry</i>	

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<p><b>Content-Specific Unigrams and Syntactic Phrases to Enhance SentiWordNet based Sentiment Classification</b></p> <p><i>Muhammad Latif Usman Qamar Abdul Wahab Muzaffar</i></p> <p>7th International Conference on Machine Learning and Computing ICMLC 2015, res.country(109,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.7763/IJMLC.2015.V5.525</p>	2015
<p><b>Flexibility and Privacy Control By Cookie Management..</b></p> <p><i>Faryal Nosheen Usman Qamar</i></p> <p>2015 Third International Conference on Digital Information, Networking, and Wireless Communications (DINWC), res.country(190,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/DINWC.2015.7054224</p>	2015
<p><b>Flexibility and Privacy Control by Cookie Management</b></p> <p><i>Faryal Nosheen Usman Qamar</i></p> <p>2015 Third International Conference on Digital Information, Networking, and Wireless Communications (DINWC), res.country(190,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/DINWC.2015.7054224</p>	2015
<p><b>Impact Minimization of Requirements Change in Software Project through Requirements Classification</b></p> <p><i>Zahoor Ahmad Musarrat Hussain Abdur Rehman Dr. Usman Qamar Muhammad Afzal</i></p> <p>9th Annual International Conference on Ubiquitous Information Management and Communication (IMCOM 2015), res.country(100,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1145/2701126.2701174</p>	2015
<p><b>Impact minimization of requirements change in software project through requirements classification</b></p> <p><i>Zahoor Ahmad Musarrat Hussain Abdur Rehman Dr. Usman Qamar Muhammad Afzal</i></p> <p>9th International Conference on Ubiquitous Information Management and Communication, res.country(100,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1145/2701126.2701174</p>	2015
<p><b>Attack Type Prediction Using Hybrid Classifier</b></p> <p><i>Sobia Shafiq Wasi Haider Butt Usman Qamar</i></p> <p>10th International Conference on Advanced Data Mining and Applications, res.country(48,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1007/978-3-319-14717-8_38</p>	2014
<p><b>Optic Disc Segmentation from Colored Retinal Images using Vessel Density</b></p> <p><i>Aniqa Azam Muhammad Usman Akram Usman Qamar</i></p> <p>2014 12th International Conference on Frontiers of Information Technology, res.country(177,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/FIT.2014.65</p>	2014
<p><b>Ontology Development and Evaluation for Urinal Tract Infection</b></p> <p><i>Bureera Sabir Usman Qamar Abdul Wahab Muzzafar</i></p> <p>2014 IEEE Symposium on Computational Intelligence in Biometrics and Identity Management (CIBIM), res.country(233,)</p> <p><b>Citations:</b> N/A</p> <p><b>DOI:</b> 10.1109/CIBIM.2014.7015463</p>	2014
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