

Hammad Afzal

Professor
Military College of Signals

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About

Dr. Hammad Afzal is working as Professor in the Military College of Signals. Dr. Hammad Afzal has a PhD in Machine Learning, Text Mining. Dr. Hammad Afzal has published 83 research articles & conference papers having a citation count of 1154, carried out 5 projects and filed 0 intellectual property.

Qualifications

PhD in Machine Learning, Text Mining University of Manchester , United Kingdom	2006 - 2009
MS in Informatics University of Manchester , Pakistan	2004 - 2005
BE in Software Engineering NUST, Islamabad , Pakistan	1999 - 2003

Experience

Professor Military College of Signals	2024- Present
Professor Military College of Signals	2022 - 2022
Associate Professor Military College of Signals	2019 - 2012
Assistant Professor Military College of Signals	2015 - 2022
Assistant Professor Military College of Signals	2012 - 2015
Assistant Professor Military College of Signals	2010 - 2019
Research Associate University of Ireland , Galway Ireland	2009 - 2009

Awards

PEC Chair SE Curriculum Head of SE Curriculum Committee, Pakistan Engineering Council	2020
Biohackathon2010 Invited (and fully funded) by the University of Tokyo to participate in BioHackathon 2010 (http://hackathon3.dbcls.jp/) in Tokyo, Japan	2010
Peter Jones Prize Peter Jones Prize of the year 2005, to attain highest grades in all MSc courses in the Department of Informatics, University of Manchester, UK.	2005

Professional Memberships

PEC	Since 2003
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Research Projects

National Projects

AI Gallery GENIE where Images meets Intelligence	2025
Funding Agency: IGNITE	
Amount: PKR 81,499.00	
Status: Completed	
AI-based Risk Predictive tool for early diagnosis and treatment of Gestational Diabetes	2023
Funding Agency: PHC GLOBAL	
Amount: PKR 12,944,923.00	
Status: Approved_inprocess	
Simulation of Autonomous Surface Vehicle with AI Powered Collision Avoidance and Route Planning System	
Funding Agency: NESCOM	
Amount: PKR 100,000.00	
Status: Approved_inprocess	
AI STP- Web Appl Security Evaluation and Health Informatics	2022
Funding Agency: Army	
Amount: PKR 15,060,000.00	
Status: Approved_inprocess	
ROAD	2021
Funding Agency: IGNITE	
Amount: PKR N/A	
Status: Completed	

International Projects

Research Articles

A light-weight deep learning framework for Low Light Image Enhancement	2025
Laraib Zainab Hammad Afzal Khawir Mahmood Omar Arif	
Neurocomputing , Volume 621, Article Number 129236	
Impact Factor: 5.500 Quartile: 1 Citations: 3	
DOI: https://doi.org/10.1016/j.neucom.2024.129236	
Semantic Web Approaches in Stack Overflow: Research Trends and Technological Insights	2024
Zeeshan Anwar Hammad Afzal Seifedine Kadry Xiaochun Cheng	
International Journal on Semantic Web and Information Systems, Volume: 20, Issue:01, Pages: 61	
Impact Factor: 4.1 Quartile: 1	
DOI: 10.4018/IJSWIS.358617	
Learning beyond books: A hybrid model to learn real-world problems	2024
Zeeshan Anwar Hammad Afzal Naima Iltaf	
Computer Applications in Engineering Education , Pages 1-15	
Impact Factor: 2.000 Quartile: 2 Citations: 1	
DOI: https://doi.org/10.1002/cae.22792	
Low Resource Summarization using Pre-trained Language Models	2024
Mubashir Munaf Hammad Afzal Khawir Mahmood Naima Iltaf	
ACM Transactions on Asian and Low-Resource Language Information Processing, Pages:19	
Impact Factor: 1.800 Quartile: 3 Citations: 6	
DOI: https://doi.org/10.1145/3675780	
Fuzzy ensemble of fined tuned BERT models for domain-specific sentiment analysis of software engineering dataset	2024
Zeeshan Anwar Hammad Afzal Naima Iltaf Seifedine Kadry Jungeun Kim	
PLoS ONE , Volume 19(5), Article Number e0300279	
Impact Factor: 2.900 Quartile: 1 Citations: 4	
DOI: https://doi.org/10.1371/journal.pone.0300279	
Mining the Opinions of Software Developers for Improved Project Insights: Harnessing the Power of Transfer Learning	2024
Zeeshan Anwar Hammad Afzal Taher Al-Shehari Muna Al-Razgan Taha Alfakih Raheel Nawaz	

<i>IEEE Access</i> , Volume:12, Page:65942-65955 Impact Factor: 3.9 Quartile: 2 Citations: 2 DOI: 10.1109/ACCESS.2024.3397211	
Collaborative Solutions to Software Architecture Challenges Faced by IT Professionals <i>Zeeshan Anwar Nazia Bibi Tauseef Rana Seifedine Kadry Hammad Afzal</i> <i>International Journal of Human Capital and Information Technology Professionals (IJHCITP)</i>, Volume 15, Issue 1, Pages 1-29 Impact Factor: 0.900 Quartile: 4 Citations: 2 DOI: 10.4018/IJHCITP.342839	2024
Enhancing Insider Threat Detection in Imbalanced Cybersecurity Settings Using the Density-Based Local Outlier Factor Algorithm <i>Taher Al-Shehari Domenico Rosaci Muna Al-Razgan Taha Alfakih Mohammed Kadrie Hammad Afzal Raheel Nawaz</i> <i>IEEE Access</i> , Volume:12, Page:34820-34834 Impact Factor: 3.9 Quartile: 2 Citations: 14 DOI: 10.1109/ACCESS.2024.3373694	2024
Underwater image enhancement using lightweight vision transformer <i>Muneeba Daud Hammad Afzal Khawir Mahmood</i> <i>Multimedia Tools and Applications</i> , Pages: 23 Impact Factor: 3.6 Quartile: 2 Citations: 1 DOI: 10.1007/s11042-024-18550-z	2024
Mining crowd sourcing repositories for open innovation in software engineering <i>Zeeshan Anwar Hammad Afzal</i> <i>Automated Software Engineering</i> , Volume 31, Article number 11, Pages: 06 Impact Factor: 3.4 Quartile: 2 Citations: 5 DOI: 10.1007/s10515-023-00410-z	2024
A novel hybrid CNN-LSTM approach for assessing StackOverflow post quality <i>Zeeshan Anwar Hammad Afzal Ali Ahsan Naima Altaf Ayesha Maqbool</i> <i>Journal of Intelligent Systems</i>, Pages 1-21 Impact Factor: 2.100 Quartile: 3 Citations: 9 DOI: https://doi.org/10.1515/jisys-2023-0057	2023
Detection and Classification of Temporal Changes for Citrus Canker Growth Rate using Deep Learning <i>Naureen Zainab Hammad Afzal Taher Al-Shehari Muna Al-Razgan Naima Altaf Muhammad Zakria Muhammad Javed Hyder Raheel Nawaz</i> <i>IEEE Access</i> , Volume 11, Pages 127637-127650 Impact Factor: 3.9 Quartile: 2 Citations: 8 DOI: https://doi.org/10.1109/ACCESS.2023.3331735	2023
Detection of Offensive Language and ITS Severity for Low Resource Language <i>Ramsha Saeed Hammad Afzal Sadaf Abdul Rauf Naima Altaf</i> <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i>, Volume: 22, Issue:06, Article Number: 156 Impact Factor: 2.0 Quartile: 4 Citations: 11 DOI: 10.1145/3580476	2023
Deep Learning-Based Multiclass Instance Segmentation for Dental Lesion Detection <i>Anum Fatima Imran Shafi Hammad Afzal Khawar Mahmood Isabel De La Torre Díez Vivian Lipari Julien Brito Ballester Imran Ashraf</i> <i>Healthcare</i> , Volume 11(3), Article Number 347 Impact Factor: 3.160 Quartile: 2 Citations: 31 DOI: https://doi.org/10.3390/healthcare11030347	2023
Depression Detection Based on Hybrid Deep Learning SSCL Framework Using Self-Attention Mechanism: An Application to Social Networking Data <i>Aleena Nadeem Muhammad Naveed Muhammad Islam Satti Hammad Afzal Tanveer Ahmed Ki-II Kim</i> <i>Sensors</i> , Volume 22(24), Article Number 9775 Impact Factor: 3.847 Quartile: 2 Citations: 43 DOI: https://doi.org/10.3390/s22249775	2022
A deep learning assisted personalized deception system for countering web application attacks <i>Waleed Bin Shahid Haider Abbas Hammad Afzal Saad Bin Khalid Baber Aslam</i> <i>Journal of Information Security and Applications</i>, Volume 67, Article Number 103169 Impact Factor: 3.872 Quartile: 2 Citations: 10 DOI: https://doi.org/10.1016/j.jisa.2022.103169	2022

Carving of the OOXML document from volatile memory using unsupervised learning techniques <i>Noor Ul Ain Mian Muhammad Waseem Iqbal Hammad Afzal</i> <i>Journal of Information Security and Applications</i> , Volume 65, Article Number 103096 Impact Factor: 3.872 Quartile: 2 Citations: 7 DOI: https://doi.org/10.1016/j.jisa.2021.103096	2022
An enhanced deep learning based framework for web attacks detection, mitigation and attacker profiling <i>Waleed Bin Shahid Haider Abbas Saad Bin Khalid Hammad Afzal Baber Aslam</i> <i>Journal of Network and Computer Applications</i> , Volume 198, Article Number 103270 Impact Factor: 8.7 Quartile: 1 Citations: 43 DOI: https://doi.org/10.1016/j.jnca.2021.103270	2022
Enriching Conventional Ensemble Learner with Deep Contextual Semantics to Detect Fake News in Urdu <i>Ramsha Saeed Hammad Afzal Haider Abbas Maheen Fatima</i> <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i> , Volume 21, Issue 1, Article Number 6, Pages 1-19 Impact Factor: 1.413 Quartile: 4 Citations: 3 DOI: https://doi.org/10.1145/3461614	2022
Pharmacovigilance with Transformers: A Framework to Detect Adverse Drug Reactions Using BERT Fine-Tuned with FARM <i>Sajid Hussain Hammad Afzal Ramsha Saeed Mir Yasir Umair Naima Altaf</i> <i>Computational and Mathematical Methods in Medicine</i> , Volume 2021, Article ID 5589829, 12 pages Impact Factor: 2.809 Quartile: 2 Citations: 23 DOI: https://doi.org/10.1155/2021/5589829	2021
AdS : An Adaptive Spectrum Sensing Technique for Survivability under Jamming Attack in Cognitive Radio Networks <i>Hammad Afzal Haider Abbas Abdul B. Subhani Muhammad Faisal Amjad</i> <i>Computer Communications</i> , Volume 172, Pages 25-34 Impact Factor: 5.047 Quartile: 1 Citations: 10 DOI: https://doi.org/10.1016/j.comcom.2021.03.001	2021
NT-FDS—A Noise Tolerant Fall Detection System Using Deep Learning on Wearable Devices <i>Hammad Afzal Khawir Mahmood Marvi Waheed</i> <i>Sensors</i> , Volume 21(6), Article Number 2006 Impact Factor: 3.847 Quartile: 2 Citations: 49 DOI: https://doi.org/10.3390/s21062006	2021
DST-HRS: A topic driven hybrid recommender system based on deep semantics <i>Zafran Khan Naima Altaf Hammad Afzal Haider Abbas</i> <i>Computer Communications</i> , Volume 156, Pages 183-191 Impact Factor: 3.167 Quartile: 2 Citations: 23 DOI: doi.org/10.1016/j.comcom.2020.02.068	2020
SS7 Vulnerabilities - A Survey and Implementation of Machine Learning vs Rule Based Filtering for Detection of SS7 Network Attacks <i>Imran Rashid Hammad Afzal Mian Muhammad Waseem Iqbal Yawar Abbas Bangash Haider Abbas</i> <i>IEEE Communications Surveys & Tutorials</i> , Volume 22, Issue 2, Pages 1337-1371 Impact Factor: 25.249 Quartile: 1 Citations: 177 DOI: 10.1109/COMST.2020.2971757	2020
Auto-MeDiSine: an auto-tunable medical decision support engine using an automated class outlier detection method and AutoMLP <i>Maham Jahangir Hammad Afzal Mehreen Ahmed Khawar Khurshid Muhammad Faisal Amjad Raheel Nawaz Haider Abbas</i> <i>Neural Computing and Applications</i> , Volume:32, Issue:7, Page:2621-2633 Impact Factor: 5.606 Quartile: 1 Citations: 11 DOI: 10.1007/s00521-019-04137-5	2020
Enriching Non-negative Matrix Factorization with Contextual Embeddings for Recommender Systems <i>Zafran Khan Naima Altaf Hammad Afzal Haider Abbas</i> <i>Neurocomputing</i> , Volume: 380, Pages: 246-258 Impact Factor: 5.719 Quartile: 1 Citations: 48 DOI: 10.1016/j.neucom.2019.09.080	2020

Delay Reduction Through Optimal Controller Placement to Boost Scalability in an SDDC <i>Yawar Abbas Bangash Haider Abbas Waseem Iqbal Malik Muhammad Zaki Murtaza Khan Bilal Rauf Hammad Afzal</i> <i>IEEE Systems Journal</i> , - Impact Factor: 3.987 Quartile: 1 DOI: 10.1109/JSYST.2019.2941904	2019
Fog computing in internet of things: Practical applications and future directions <i>Rida Zojaj Naeem Saman Bashir Muhammad Faisal Amjad Haider Abbas Hammad Afzal</i> <i>Peer-to-Peer Networking and Applications</i> , Volume 12, pages 1236–1262 Impact Factor: 2.793 Quartile: 2 Citations: 38 DOI: https://doi.org/10.1007/s12083-019-00728-0 ,	2019
AdDroid: Rule-Based Machine Learning Framework for Android Malware Analysis <i>Anam Mehtab Waleed Bin Shahid Tahreem Yaqoob Muhammad Faisal Amjad Haider Abbas Hammad Afzal Malik Najmus Saqib</i> <i>Mobile Networks and Applications</i> , Pages 1-13 Impact Factor: 2.602 Quartile: 2 Citations: 42 DOI: 10.1007/s11036-019-01248-0	2019
CATSWoTS: Context Aware Trustworthy Social Web of Things System <i>Sabeen Javaid Hammad Afzal Naima Altaf Haider Abbas Waseem Iqbal Fahim Arif</i> <i>Sensors</i> , Volume: 19, Issue: 14, Article Number: 3076, Impact Factor: 3.275 Quartile: 1 Citations: 15 DOI: 10.3390/s19143076	2019
Accelerated Dynamic MRI Using Kernel-Based Low Rank Constraint <i>Omar Arif Hammad Afzal Haider Abbas Muhammad Faisal Amjad Jiafu Wan Raheel Nawaz</i> <i>Journal of Medical Systems</i> , Volume 43, Pages 1-11 Impact Factor: 3.058 Quartile: 1 Citations: 8 DOI: https://doi.org/10.1007/s10916-019-1399-x	2019
Forensic Analysis of Tor Browser: A Case Study for Privacy and Anonymity on the Web <i>Abid Khan Jadoon Waseem Iqbal Hammad Afzal Yawar Abbas Bangash Muhammad Faisal Amjad</i> <i>Forensic Science International</i> , Volume 299, Pages 59-73 Impact Factor: 2.108 Quartile: 1 Citations: 41 DOI: 10.1016/j.forsciint.2019.03.030	2019
Auto-MeDiSine: An Auto-Tunable Medical Decision Support Engine using an automated Class Outlier Detection method and AutoMLP <i>Maham Jahangir Hammad Afzal Mehreen Ahmed Raheel Nawaz Haider Abbas Khawar Khurshid Muhammad Faisal Amjad</i> <i>Neural Computing and Applications</i> , Pages 1–13 Impact Factor: 4.774 Quartile: 1 Citations: 11 DOI: https://doi.org/10.1007/s00521-019-04137-5	2019
Semantically enhanced concept search of the Holy Quran: Qur’anic English WordNet <i>Hammad Afzal Tayyaba Mukhtar</i> <i>Arabian Journal for Science and Engineering</i> , Volume 44, Issue 4, Pages 3953-3966 Impact Factor: 1.711 Quartile: 3 Citations: 12 DOI: 10.1007/s13369-018-03709-2	2019
ARCA-IoT: An Attack-Resilient Cloud-Assisted IoT System <i>Sabeen Javaid Hammad Afzal Muhammad Babar Fahim Arif Zhiyuan Tan Mian Ahmed Jan</i> <i>IEEE Access</i> , Volume 7, Pages 19616-19630 Impact Factor: 3.745 Quartile: 1 Citations: 17 DOI: 10.1109/ACCESS.2019.2897095	2019
A Framework to Estimate the Nutritional Value of Food in Real Time Using Deep Learning Techniques RAZA YUNUS OMAR ARIF HAMMAD AFZAL MUHAMMAD FAISAL AMJAD HAIDER ABBAS HIRA NOOR BOKHAR SYEDA TAZEEN HAIDER NAUMAN ZAFAR RAHEEL NAWAZ <i>IEEE Access</i> , Volume 7, Pages 2643-2652 Impact Factor: 4.098 Quartile: 1 Citations: 89 DOI: 10.1109/ACCESS.2018.2879117	2018
HRS-CE: A Hybrid Framework to integrate Content Embeddings in Recommender Systems for Cold Start Items <i>Fahad Anwaar Hammad Afzal Raheel Nawaz Naima Altaf</i>	2018

AndroKit: A Toolkit for Forensics Analysis of Web Browsers on Android Platform

2018

Muhammad Asim Hammad Afzal Yin Zhang HAIDER ABBAS Waseem Iqbal Muhammad Faisal Amjad

Future Generation Computer Systems, Volume 94, Pages 781-794

Impact Factor: 5.768 | Quartile: 1 | Citations: 13

DOI: <https://doi.org/10.1016/j.future.2018.08.020>

Exploring Nested Ensemble Learners using Over-production and Choose Approach for Churn

2018

Prediction in Telecom Industry

Mahreen Ahmed Hammad Afzal Imran Siddiqi Muhammad Faisal Amjad Khawar Khurshid

Neural Computing and Applications, Neural Computing and Applications

Impact Factor: 4.664 | Quartile: 1 | Citations: 26

DOI: 10.1007/s00521-018-3678-8

A Hybrid-Adaptive Neuro-Fuzzy Inference System for Multi-Objective Regression Test Suites

2018

Optimization

Zeshan Anwar Hammad Afzal Nazia Bibi Haider Abbas Omar Arif Athar Mohsin

Neural Computing and Applications, Pages 1-15

Impact Factor: 4.664 | Quartile: 1 | Citations: 21

DOI: 10.1007/s00521-018-3560-8

Defence Against PUE Attacks in Ad hoc Cognitive Radio Networks: A Mean Field Game Approach

2018

Muhammad Faisal Amjad Saim Bin Abdul Khaliq Haider Abbas Narmeen Shafqat Hammad Afzal

Telecommunication Systems, Volume: 70 Issue: 1 Pages: 123-140 Published: JAN 2019

Impact Factor: 1.707 | Quartile: 3 | Citations: 17

DOI: 10.1007/s11235-018-0472-y

Forensic Investigation to detect forgeries in ASF Files of Contemporary IP Cameras

2018

Rashid Masood Khan Hammad Afzal Maroof Pasha HAIDER ABBAS Abdul Rauf Muhammad Faisal Amjad Waseem Iqbal

The Journal of Supercomputing, Page 1–22

Impact Factor: 2.157 | Quartile: 2

DOI: 10.1007/s11227-018-2377-7

Improving handwriting based gender classification using ensemble classifiers

2017

Mehreen Ahmed Asma Ghulam Rasool Imran Siddiqi Hammad Afzal

Expert Systems with Applications, NULL

Impact Factor: 3.768 | Quartile: 1 | Citations: 77

DOI: 10.1016/j.eswa.2017.05.033

Impact of Feature Selection Algorithms on Blind Image Quality Assessment

2017

Khawar Khurshid Muhammad Majid Imran Fareed Nizami Hammad Afzal

Arabian Journal for Science and Engineering, NULL

Impact Factor: 1.092 | Quartile: 3 | Citations: 7

DOI: <https://doi.org/10.1007/s13369-017-2803-9>

A Survey of Evolution in Predictive Models and Impacting Factors in Customer Churn

2017

Mehreen Ahmed Hammad Afzal Awais Majeed Behram Khan

Advances in Data Science and Adaptive Analysis, Volume: 9, Issue: 3, Article Number: UNSP 1750007

Impact Factor: -

DOI: DOI:10.1142/S2424922X17500073

Evaluation of Navigational Aspects of Moodle

2016

Awais Majeed Raheela Arshad Hammad Afzal Muhammad Muzammal Arif ur Rahman

International Journal of Advanced Computer Science and Applications (ijacsa), NULL

Impact Factor: 0

DOI: 10.14569/IJACSA.2016.070342

Reputation Management System for Fostering Trust in Collaborative and Cohesive Disaster Management

2016

Sabeen Javed Hammad Afzal Awais Majeed Fahim Arif

International Journal of Advanced Computer Science and Applications (IJACSA), NULL

Impact Factor: 0

DOI: 10.14569/IJACSA.2016.070750	
QoS Aware Wavelength Assignment in Wavelength Division Multiplexing Based Optical Networks	2015
<i>Kabeer Ahmed Bhatti Hammad Afzal Umar Mehmood N.A. Malik Bilal Rauf</i>	
<i>International Journal of Multidisciplinary Sciences and Engineering (IJMSE)</i> , Vol. 6, No.1, Pages 23-27	
Impact Factor: 0	
DOI: http://www.ijmse.org/Volume6/Issue1.html	
An Approach for Secure Semantic Data Integration at Data as a Service (DaaS) Layer	2015
<i>Shoohira Aftab Hammad Afzal Amna Khalid</i>	
<i>International Journal of Information and Education Technology</i> , Volume 5, No. 2, Pages 124-130	
Impact Factor: -	
DOI: -	
Mining Semantic Networks of Bioinformatics Web Resources from the Literature	2011
<i>Hammad Afzal James Eales Robert Stevens Goran Nenadic</i>	
<i>Journal of Biomedical Semantics</i> , NULL	
Impact Factor: 0 Citations: 3	
DOI: 10.1186/2041-1480-2-S1-S4	

Conference Proceedings

NLPColab at FigNews 2024 Shared Task: Challenges in Bias and Propaganda Annotation for News Media	2024
<i>Hammad Afzal SEEMAB LATIF Sadaf Abdul Rauf Huda Sarfraz Saadia Ishtiaq Nauman Arooj Fatima Sadaf Ziafat Alishba Abdul Suboor</i>	
<i>Proceedings of The Second Arabic Natural Language Processing Conference</i> , res.country(217,)	
Citations: N/A	
DOI: 10.18653/v1/2024.arabicnlp-1.61	
Diagnosis and Identification of Citrus Canker Growth Rate Using Machine Learning	2023
<i>Naureen Zainab Hammad Afzal Fahim Arif Abdul Ghafoor Naima Iltaf Muhammad Zakria Muhammad Javed Hyder Rafia Ahsan</i>	
<i>2023 IEEE 4th International Conference on Pattern Recognition and Machine Learning (PRML)</i> , res.country(48,)	
Citations: 1	
DOI: 10.1109/PRML59573.2023.10348188	
Co-Clustering based Hybrid Collaborative Filtering Model	2023
<i>Aammna Dr Naima Iltaf Dr Hammad Afzal Ain, Qurat Ul</i>	
<i>4th International Conference on Communication Technologies, ComTech 2023</i> , res.country(177,)	
Citations: N/A	
DOI: 10.1109/ComTech57708.2023.10165021	
Electricity Theft Detection Via Deep Learning	2023
<i>Sehrish Farid Dr Naima Iltaf Dr Hammad Afzal</i>	
<i>4th International Conference on Communication Technologies, ComTech 2023</i> , res.country(177,)	
Citations: N/A	
DOI: 10.1109/ComTech57708.2023.10164983	
Detection and Analysis of Mental Health Illness using Social Media	2023
<i>Rabia Qayyum Hammad Afzal Khawir Mahmood Naima Iltaf</i>	
<i>4th International Conference on Communication Technologies, ComTech 2023</i> , res.country(177,)	
Citations: N/A	
DOI: 10.1109/ComTech57708.2023.10165143	
A Survey of Network Features for Machine Learning Algorithms to Detect Network Attacks	2022
<i>Joveria Rubaab Hammad Afzal Waleed Bin Shahid</i>	
<i>Asian Conference on Intelligent Information and Database Systems</i> , res.country(241,)	
Citations: N/A	
DOI: 10.1007/978-3-031-21967-2_7	
A Framework to Optimize Deep Learning based Web Attack Detection Using Attacker Categorization	2021
<i>Waleed Bin Shahid Haider Abbas Hammad Afzal Saad Bin Khalid</i>	
<i>2021 IEEE 19th International Conference on Embedded and Ubiquitous Computing (EUC)</i> , res.country(48,)	
Citations: N/A	
DOI: 10.1109/EUC53437.2021.00022	

Using Trust in Collaborative Filtering for Recommendations <i>Farah Saleem naima iltaf hammad Afzal mobeena Shahzad</i> 2019 IEEE 28th International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE), res.country(109,) Citations: 6 DOI: 10.1109/WETICE.2019.00053	2019
A Deep Learning Framework to Predict Rating for Cold Start Item Using Item Metadata <i>Fahad Anwaar naima iltaf hammad Afzal Haider Abbas</i> 2019 IEEE 28th International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE), res.country(109,) Citations: 5 DOI: 10.1109/WETICE.2019.00071	2019
Mining Mobile Security Concerns and their Solutions <i>Zeshan Anwar Nazia Bibi Hammad Afzal</i> 2019 16th International Bhurban Conference on Applied Sciences and Technology (IBCAST) , res.country(282,) Citations: N/A DOI: 10.1109/IBCAST.2019.8667251	2019
A Multi-Classifer Framework for Open Source Malware Forensics <i>Naeem Amjad Muhammad Faisal Amjad Hammad Afzal Farrukh Aslam Khan</i> Proceedings - IEEE 27th International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE 2018), res.country(75,) Citations: N/A DOI: 10.1109/WETICE.2018.00027	2018
Crowdsourced System to Report Traffic Violations <i>Maryam Jameela Hammad Afzal Khawar Khurshid Asad Waqar Malik</i> 4th International Conference on Vehicle Technology and Intelligent Transport Systems (VEHITS), res.country(183,) Citations: N/A DOI: 10.5220/0006680303150322	2018
Crowdsourced System to Report Traffic Violations RoadCop: Bi-Modular System <i>Maryam Jameela Hammad Afzal Khawar Khurshid Asad Waqar Malik</i> 4th International Conference on Vehicle Technology and Intelligent Transport Systems, res.country(183,) Citations: N/A DOI: 10.5220/0006680303150322	2018
Trust management for SOA based social WoT system <i>Sabeen Javaid Hammad Afzal Fahim Arif Naima altaf</i> International Conference on Advanced Communication Technology, ICACT, res.country(121,) Citations: N/A DOI: 10.23919/ICACT.2018.8323767	2018
Extension of Semantic Based Urdu Linguistic Resources Using Natural Language Processing <i>komal khalid Hammad Afzal faiza moqaddas naima altaf ahmed muqeen sheri raheel nawaz</i> Proceedings - 2017 IEEE 15th International Conference on Dependable, Autonomic and Secure Computing, 2017 IEEE 15th International Conference on Pervasive Intelligence and Computing, 2017 IEEE 3rd International Conference on Big Data Intelligence and Computing and 2017 IEEE Cyber Science and Technology Congress, DASC-PICom-DataCom-CyberSciTec 2017 , res.country(233,) Citations: 8 DOI: 10.1109/DASC-PICom-DataCom-CyberSciTec.2017.214	2017
MCS: Multiple classifier system to predict the churners in the telecom industry <i>Mehreen Ahmed Hammad Afzal Hammad Afzal Behram Khan</i> 2017 Intelligent Systems Conference (IntelliSys) , res.country(231,) Citations: N/A DOI: https://doi.org/10.1109/IntelliSys.2017.8324367	2017
An expert system for diabetes prediction using auto tuned multi-layer perceptron <i>Maham Jahangir Hammad Afzal Mehreen Ahmed Khawar Khurshid Raheel Nawaz</i> 2017 Intelligent systems conference (IntelliSys) , res.country(260,) Citations: N/A DOI: 10.1109/IntelliSys.2017.8324209	2017
Design pattern for secure object oriented information systems development <i>Muhammad Samiul Haq Zeshan Anwar Hammad Afzal Ali Hassan</i> 2017 14th International Bhurban Conference on Applied Sciences and Technology (IBCAST), res.country(282,)	2017

Citations: N/A	
DOI: https://doi.org/10.1109/IBCAST.2017.7868093	
Volunteer Reputation Evaluation for Emergency Response Operations	2016
<i>Anum Kaleem Awais majeed Tameem Ahmed Hammad Afzal Faisal bashir</i>	
<i>2015 2nd International Conference on Information and Communication Technologies for Disaster Management (ICT-DM), res.country(75,)</i>	
Citations: N/A	
DOI: 10.1109/ICT-DM.2015.7402046	
Pashto Sentiment Analysis Using Lexical Features	2016
<i>Uzair Kamal Imran Siddiqi Hammad Afzal Arif ur Rehman</i>	
<i>1st Mediterranean Conference on Pattern Recognition and Artificial Intelligence, MedPRAI 2016, res.country(62,)</i>	
Citations: N/A	
DOI: 10.1145/3038884.3038904	
Analyzing Socio-economic and Geographical factors for Crime Incidents using Heat maps and Hotspots	2016
<i>Sunia Malik Hammad Afzal Imran Siddiqi Awais Majeed</i>	
<i>1st Mediterranean Conference on Pattern Recognition and Artificial Intelligence, MedPRAI 2016, res.country(62,)</i>	
Citations: N/A	
DOI: 10.1145/3038884.3038908	
Spam filtering of bi-lingual tweets using machine learning	2016
<i>Hammad Afzal Kashif Mehmood</i>	
<i>2016 18th International Conference on Advanced Communication Technology (ICACT), res.country(259,)</i>	
Citations: N/A	
DOI: https://doi.org/10.1109/ICACT.2016.7423529	
Using Crowd-Source Based Features from Social Media and Conventional Features to Predict the Movies Popularity	2015
<i>Mehreen Ahmed Maham Jahangir Hammad Afzal Awais Majeed Imran Siddiqi</i>	
<i>2015 IEEE International Conference on Smart City/SocialCom/SustainCom (SmartCity), res.country(48,)</i>	
Citations: N/A	
DOI: 10.1109/SmartCity.2015.83	
Contributions to the study of bi-lingual Roman Urdu SMS spam filtering	2015
<i>Kashif Mahmood Hammad Afzal Awais Majeed Hassan Latif</i>	
<i>2015 National Software Engineering Conference (NSEC), res.country(282,)</i>	
Citations: N/A	
DOI: https://doi.org/10.1109/NSEC.2015.7396343	
Biomedical Text Mining for Concept Identification from Traditional Medicine Literature	2014
<i>Zeshan Javed Hammad afzal</i>	
<i>2014 International Conference on Open Source Systems & Technologies, res.country(282,)</i>	
Citations: N/A	
DOI: 10.1109/ICOSST.2014.7029345	
Creation of bi-lingual Social Network Dataset using classifiers	2014
<i>Iqra Javed Hammad Afzal</i>	
<i>10th International Conference on Machine Learning and Data Mining in Pattern Recognition, MLDM 2014, res.country(190,)</i>	
Citations: N/A	
DOI: 10.1007/978-3-319-08979-9_40	
Towards Creation of Linguistic Resources for Bilingual Sentiment Analysis of Twitter Data	2014
<i>Iqra Javed Hammad Afzal Awais Majeed Berhram Khan</i>	
<i>19th International Conference on Applications of Natural Language to Information Systems, res.country(75,)</i>	
Citations: N/A	
DOI: 10.1007/978-3-319-07983-7_32	
Balancing Scalability, Performance and Fault tolerance in structured data	2014
<i>Amna Khalid Hammad Afzal Shooohira Aftab</i>	
<i>16th International Conference on Advanced Communication Technology, res.country(259,)</i>	
Citations: N/A	
DOI: 10.1109/ICACT.2014.6779058	
Vocabulary of Quranic Concepts: A semi-automatically created terminology of Holy Quran	2012

tayyaba mukhtar Hammad Afzal Awais Majeed
15th International Multitopic Conference (INMIC) , res.country(282,)

Citations: N/A

DOI: <https://doi.org/10.1109/INMIC.2012.6511467>

A hybrid routing protocol for wireless sensor networks with mobile sinks

2012

Veena Safdar Faisal Bashir Zara Hamid Hammad Afzal Jae Young Pyun
ISWPC 2012 proceedings , res.country(48,)

Citations: N/A

DOI: 10.1109/ISWPC.2012.6263665

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