

RAFIA MUMTAZ

Professor

School of Electrical Engineering and Computer Science

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About

Dr. RAFIA MUMTAZ is working as Professor in the School of Electrical Engineering and Computer Science. Dr. RAFIA MUMTAZ has a PhD in Remote Sensing And Satellite Image Processin. Dr. RAFIA MUMTAZ has published 91 research articles & conference papers having a citation count of 2265, carried out 26 projects and filed 16 intellectual property.

Qualifications

PhD in Remote Sensing And Satellite Image Processin University of Surrey , England	2006 - 2010
MS in Software Engineering NUST, Islamabad , Pakistan	2004 - 2006
BE in Software Engineering Fatima Jinnah Women University , Pakistan	2000 - 2004

Experience

Professor School of Electrical Engineering and Computer Science	2022- Present
Associate Professor School of Electrical Engineering and Computer Science	2020 - 2022
Assistant Professor School of Electrical Engineering and Computer Science	2012 - 2020
Assistant Professor School of Electrical Engineering and Computer Science	2010 - 2012
Assistant Professor Military College of Signals	2010 - 2010
Visiting Faculty Coventry University, UK , Coventry University, UK	2023- Present
Assistant Professor King Faisal University , College of Computer Science and Information Technology, King Faisal University, Al-Ahsa, Saudi Arab	2015 - 2017
Postdoctoral Research Fellow University of Surrey , GU2 7XH, Guildford, United Kingdom	2011 - 2012
Lab Demonstrator University of Surrey , University of Surrey, Guildford, UK, GU2 7XH	2009 - 2009

Awards

HEC Best University Teacher Award 2022 2022, Award given in 2023	2023
Best University Teacher Award 2021-22 Best University Teacher Award 2021-22	2022
School Best Researcher I was awarded NUST SEECS best researcher award for the year 2018	2019
DAAD Research Grants DAAD Research Grant of 78758 euros	2018
GCRF,UK Research Grants Research Grant awarded to NUST (19000 pounds) for a collaborative project between NUST, University of Leeds, UK and LUMS, Pakistan	2018
HEC NRPU HEC NRPU research grant worth Rs 3.6 million	2018
DPIH Research Award DPIH Research Appreciation Award(5000 Saudi Riyal), 2017	2017
National ICT-R&DGrassroot National ICT R&D Grass root funding (Rs. 45000), 2016	2016
DSR Awarded Deanship of Scientific Research grant, King Faisal University, 2016.	2016
Research Grant I was awarded Research Grant of 50000 euros by European Space Agency (ESA), United Kingdom, 2011	2011
Good academic & research I was awarded Good academic and research record certificate by University of surrey in 2010	2010
Excellent presentation I was awarded Excellent presentation skills certificate by university of surrey in 2010	2010
Travel Grant A travel grant was awarded to me by HEC in 2008	2008
PhD Scholarship I was awarded PhD scholarship for studying abraod	2006
Endowment Fund Endowment Fund Scholarship was awarded to me during my MS for maintaining CGPA >3.5	2005

Professional Memberships

ACM

PEC

IEEE

Research Projects

National Projects	
Enhancing STEM Education through Project-Based Learning/CDIO: A Strategy to Improve Student Experience and Produce Industry-Ready Graduates Using the ‘Train the Trainer’ Model Funding Agency: British Council Amount: PKR N/A Status: Approved_inprocess	2025
VoIP - Based Communication System Funding Agency: NUST Amount: PKR 750,000.00 Status: Approved_inprocess	
Pak-Thai Digital Innovation Lab	2024

Funding Agency: Chiang Mai University (CMU), Thailand	
Amount: PKR 5,040,000.00	
Status: Approved_inprocess	
Design and Development of Ambient Backscatter IoT Communication for Sustainable Environments (DABICSE)	2025
Funding Agency: PSF	
Amount: PKR 18,373,200.00	
Status: Approved_inprocess	
Development of Teaching Excellence Framework (TEF) for Pakistan under the British Council Going Global Partnerships.	2024
Funding Agency: British Council	
Amount: PKR 5,104,311.00	
Status: Approved_inprocess	
SLUM-i: A Remote Sensing Based Intelligent Framework for Detection and Predictive Growth Analysis of Slums for Sustainable Socio-Economic Development of Pakistan	2023
Funding Agency: DAAD	
Amount: PKR 14,423,146.00	
Status: Approved_inprocess	
Active Analysis of Encrypted Traffic Flows for Application Fingerprinting	2023
Funding Agency: NCCS	
Amount: PKR 100,000.00	
Status: Approved_inprocess	
Design, Development and Deployment of a solar PV based cold storage system	2023
Funding Agency: The Canada Fund for Local Initiatives	
Amount: PKR 5,177,000.00	
Status: Completed	
Cherry Sorter - An Embedded AI and Computer Vision based solution for improved characterization of the production for exportation	
Funding Agency: Ministry of Planning, Development and Special Initiatives (MoPD&SI)	
Amount: PKR 19,803,000.00	
Status: Approved_inprocess	
PAK-UK Education Gateway Mobility Partnership Grant For Faculty	2023
Funding Agency: British Council	
Amount: PKR 2,810,000.00	
Status: Approved_inprocess	
Air Quality Assessment based on Industry 4.0	2022
Funding Agency: NUST	
Amount: PKR 1,000,000.00	
Status: Completed	
Georectification of images without GCP using multiple Imaging sensors	2011
Funding Agency: European Space Agency (ESA)	
Amount: PKR 7,050,000.00	
Status: Completed	
Multifaceted Crop Scouting using Industry 4.0	2022
Funding Agency: HEC	
Amount: PKR 132,740,000.00	
Status: Completed	
IoT and Machine Learning enabled smart Livestock Monitoring	2020
Funding Agency: IGNITE	
Amount: PKR 60,060.00	
Status: Completed	
CrasAir	2020
Funding Agency: IGNITE	
Amount: PKR 69,631.00	
Status: Completed	
Smart Trolley	2019
Funding Agency: IGNITE	

Amount: PKR 26,450.00	
Status: Completed	
Aawaaz – A Sign Language Interpreter	2015
Funding Agency: IGNITE	
Amount: PKR 36,000.00	
Status: Completed	
GrISt: Green Internet of Things (IoT) for Climate Smart-Agriculture	2018
Funding Agency: Global Challenges Research Fund, UK	
Amount: PKR 3,361,530.00	
Status: Completed	
Building Capacity to Improve Air Quality in South Asia: Reducing PM2.5 Through Low-Cost Sensor Network Driven Policy Decisions	2021
Funding Agency: Department of States (DOS), USA	
Amount: PKR 12,285,390.00	
Status: Approved_inprocess	
Agri-DMaP: Internet of Things (IoT) and AI enabled system for Crop Disease Monitoring and Prediction	2021
Funding Agency: NCAI-HEC	
Amount: PKR 9,447,000.00	
Status: Completed	
Capacity Building for Digital Health Monitoring and Care Systems in Asia - DigiHealth-Asia	2020
Funding Agency: Erasmus Union	
Amount: PKR 11,538,280.00	
Status: Approved_inprocess	
Green Internet-of-Things for Climate Smart Agriculture	2018
Funding Agency: GCRF	
Amount: PKR 3,361,530.00	
Status: Completed	
Internet of Things (IoT) enabled surface water pollution detection for predictive healthcare	2019
Funding Agency: DAAD	
Amount: PKR 13,388,860.00	
Status: Completed	
Crop Health Monitoring and Early Warning System using Internet of Things (IoT) Enabled Precision Agriculture	2018
Funding Agency: HEC	
Amount: PKR 4,620,000.00	
Status: Completed	

International Projects

Industry Projects

National Projects

Industrial Funding by Walee Tech Phase-3	2024
Client: Walee Technologies Pvt Ltd	
Amount: PKR 10,000,000.00	
Status: Approved_inprocess	
Walee-NUST Center of Excellence for Advanced Social and Digital Media Technologies	2022
Client: Walee Technologies Pvt Ltd	
Amount: PKR 10,000,000.00	
Status: Completed	

International Projects

Research Articles

Orange yield estimation using object tracking and 3D reconstruction	2025
<i>Amna Hassan RAFIA MUMTAZ Vasile Palade Arslan Amin Zahid Mahmood Noorullah Khan Muhammad Noman Muhammad Imran Santichai Wicha Smart Agricultural Technology , Volume:12, Article Number 101088</i>	

Impact Factor: N/A Quartile: 1 DOI: https://doi.org/10.1016/j.atech.2025.101088	
Enhancing Ransomware Detection with Machine Learning Techniques and Effective API Integration <i>Asad Iqbal Mehdi Hussain Kaiser Riaz Madiha Khalid RAFIA MUMTAZ Ki-Hyun Jung</i> <i>Computers, Materials & Continua</i> , Pages 1-22 Impact Factor: 1.700 Quartile: 3 DOI: https://doi.org/10.32604/cmc.2025.064260	2025
Exploring FarmBot in Agriculture Applications: An AI and IoT-Based Robotic System for Farmers with Disabilities <i>Noor Sajjad RAFIA MUMTAZ Aryan Kaushik Zahid Mahmood Syed Ali Hassan</i> <i>IEEE Internet of Things Magazine</i> , Volume:8, Issue:4, Pages 70-76 Impact Factor: N/A Quartile: 1 DOI: 10.1109/IOTM.001.2500009	2025
Disentangled representation learning for multilabel generalized zero-shot learning <i>Muqaddas Gull Omar Arif Rafia Mumtaz Mubashir Ahmad</i> <i>International Journal of General Systems</i> , Pages 1-21 Impact Factor: 2.400 Quartile: 2 DOI: https://doi.org/10.1080/03081079.2025.2504682	2025
3D vision object detection for autonomous driving in fog using LiDaR <i>Alishba Tahir RAFIA MUMTAZ Muhammad Saqib Irshad</i> <i>Simulation Modelling Practice and Theory</i> , Volume:140, Article Number 103089 Impact Factor: 3.500 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1016/j.simpat.2025.103089	2025
Data-Driven Spatial Analysis of Reforestation in Pakistan: Identifying Optimal Locations for Sustainable Forest Growth and Climate Change Mitigation <i>Amna Faisal Rafia Mumtaz Muhammad Deedahwar Mazhar Qureshi Muhammad Ali Tahir N. Z. Jhanjhi Mehedi Masud Mohammad Shorfuzzaman</i> <i>IEEE ACCESS</i> , Volume 12, Pages 190375-190388 Impact Factor: 3.400 Quartile: 2 Citations: 1 DOI: 10.1109/ACCESS.2024.3510565	2024
Wheat Leaf Localisation and Segmentation for Yellow Rust Disease Detection in Complex Natural Backgrounds <i>Amna Hassan Rafia Mumtaz Zahid Mahmood Muhammad Fayyaz Muhammad Kashif Naeem</i> <i>Alexandria Engineering Journal</i> , Volume 107, Pages 786-798 Impact Factor: 6.200 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1016/j.aej.2024.09.018	2024
Temporal assessment of forest cover dynamics in response to forest fires and other environmental impacts using AI <i>Shehla Noor Rafia Mumtaz Muhammad Ajmal Khan</i> <i>Environmental Monitoring and Assessment</i> , Volume 196, Article Number 893 Impact Factor: 2.900 Quartile: 3 DOI: https://doi.org/10.1007/s10661-024-12992-6	2024
Fabric Defect Detection in Real World Manufacturing Using Deep Learning <i>Mariam Nasim Rafia Mumtaz Muneer Ahmad Arshad Ali</i> <i>Real-Time Human Authentication System Based on Iris Recognition</i> , Volume 15(8), Article Number 476 Impact Factor: 2.400 Quartile: 3 Citations: 14 DOI: https://doi.org/10.3390/info15080476	2024
Unmanned surface vehicle for intelligent water quality assessment to promote sustainable human health <i>Muhammad Ibtsaam Qadir Rafia Mumtaz Mariam Manzoor Misbah Saleem Muhammad Ajmal Khan Susanne Charlesworth</i> <i>Water Supply</i> , Volume 24, Issue 7, Pages 2259-2270 Impact Factor: 1.900 Quartile: 3 Citations: 2 DOI: https://doi.org/10.2166/ws.2024.141	2024
Cardiac Arrhythmia Classification Using Advanced Deep Learning Techniques on Digitized ECG Datasets <i>Shoaib Sattar Rafia Mumtaz Mamoon Qadir Sadaf Mumtaz Muhammad Ajmal Khan Timo De Waele Eli De Poorter Ingrid Moerman Adnan Shahid</i> <i>Sensors</i> , Volume 24(8), Article Number 2484	2024

Impact Factor: 3.900 Quartile: 2 Citations: 12 DOI: https://doi.org/10.3390/s24082484	
Deforestation detection and reforestation potential due to natural disasters—A case study of floods <i>Muhammad Hassan Maqsood Rafia Mumtaz Muhammad Ajmal Khan</i> <i>Remote Sensing Applications: Society and Environment</i> , Volume 34, Article Number: 101188, Pages: 18 Impact Factor: 3.800 Quartile: 2 Citations: 4 DOI: 10.1016/j.rsase.2024.101188	2024
Tackling food insecurity using remote sensing and machine learning based crop yield prediction <i>Uferah Shafi Rafia Mumtaz Zahid Anwar Muhammad Muzyyab Ajmal Muhammad Ajmal Khan Zahid Mahmood Maqsood Qamar Hafiz Muhammad Jhanzab</i> <i>IEEE Access</i> , Volume 11, Pages 108640-108657 Impact Factor: 3.9 Quartile: 2 Citations: 38 DOI: 10.1109/ACCESS.2023.3321020	2023
Integrated digital image processing techniques and deep learning approaches for wheat stripe rust disease detection and grading <i>Rafia Mumtaz Muhammad Hassan Maqsood Ihsan Ul Haq Uferah Shafi Zahid Mahmood Mustafa Mumtaz</i> <i>Decision Analytics Journal</i> , Volume 8, Article Number 100305 Impact Factor: 0 Citations: 21 DOI: https://doi.org/10.1016/j.dajour.2023.100305	2023
Impact of Green Energy Transportation Systems on Urban Air Quality: A Predictive Analysis Using Spatiotemporal Deep Learning Techniques <i>Rafia Mumtaz Arslan Amin Muhammad Ajmal Khan Muhammad Daud Abdullah Asif Zahid Anwar Muhammad Jawad Bashir</i> <i>Energies</i> , Volume 16, Issue 16, Article Number 6087 Impact Factor: 3.2 Quartile: 3 Citations: 6 DOI: https://doi.org/10.3390/en16166087	2023
Assessment of the monsoonal impact of air pollutants and meteorological factors on physicochemical water quality parameters using remote sensing <i>Mehreen Ahmed Rafia Mumtaz Zahid Anwar Syed Mohammad Hassan Zaidi</i> <i>Journal of Water and Climate Change</i> , Volume 14, Issue 7, Pages 2164-2190 Impact Factor: 2.8 Quartile: 2 Citations: 4 DOI: https://doi.org/10.2166/wcc.2023.500	2023
Embedded AI for Wheat Yellow Rust Infection Type Classification <i>Uferah Shafi Rafia Mumtaz Muhammad Deedahwar Mazhar Qureshi Zahid Mahmood Sikander Khan Tanveer Ihsan Ul Haq Syed Mohammad Hassan Zaidi</i> <i>IEEE Access</i> , Volume 11, Pages 23726-23738 Impact Factor: 3.476 Quartile: 2 Citations: 45 DOI: https://doi.org/10.1109/ACCESS.2023.3254430	2023
An Enhanced Water Quality Index for Water Quality Monitoring Using Remote Sensing and Machine Learning <i>Mehreen Ahmed Rafia Mumtaz Zahid Anwar</i> <i>Applied Sciences</i> , Volume 12, issue 24, Article Number 12787 Impact Factor: 2.9 Quartile: 2 DOI: https://doi.org/10.3390/app122412787	2022
A Multi–Step Approach for Optically Active and Inactive Water Quality Parameter Estimation Using Deep Learning and Remote Sensing <i>Mehreen Ahmed Rafia Mumtaz Zahid Anwar Arsalan Shaukat Omar Arif Faisal Shafait</i> <i>Water</i> , Volume 14, Issue 13, Article Number 2112 Impact Factor: 3.530 Quartile: 2 Citations: 39 DOI: https://doi.org/10.3390/w14132112	2022
Wheat rust disease detection techniques: a technical perspective <i>Uferah Shafi Rafia Mumtaz Zunaira Shafaq Syed Mohammad Hassan Zaidi Muhammad Owais Kaifi Zahid Mahmood Syed Ali Raza Zaidi</i> <i>Journal of Plant Diseases and Protection</i> , Volume 129, Issue 3, Pages 489-504 Impact Factor: 1.847 Quartile: 3 Citations: 43 DOI: 10.1007/s41348-022-00575-x	2022
A review of enabling technologies for Internet of Medical Things (IoMT) Ecosystem <i>Zarlish Ashfaq Abdur Rafay Rafia Mumtaz Syed Mohammad Hassan Zaidi Hadia Saleem Syed Ali Raza Zaidi Sadaf Mumtaz Ayesha Haque</i> <i>Ain Shams Engineering Journal</i> , Volume 13, Issue 4, Article Number 101660	2022

Impact Factor: 3.180 Quartile: 2 Citations: 113 DOI: https://doi.org/10.1016/j.asej.2021.101660	
Assessment of correlation amongst physico-chemical, topographical, geological, lithological and soil type parameters for measuring water quality of Rawal watershed using remote sensing <i>Mehreen Ahmed Rafia Mumtaz Shahbaz Baig Syed Mohammad Hassan Zaidi</i> <i>Water Supply</i> , Volume 22, Issue 4, Article Number 3645 Impact Factor: 1.275 Quartile: 4 Citations: 11 DOI: https://doi.org/10.2166/ws.2022.006	2022
How IoT-Driven Citizen Science Coupled with Data Satisficing Can Promote Deep Citizen Science <i>Stefan Poslad Tayabba Irum Patricia Charlton Rafia Mumtaz Muhammad Azam Syed Mohammad Hassan Zaidi Christothea Herodotou Guangxia Yu Fesal Toosy</i> <i>Sensors</i> , Volume 22, Issue 9, Article Number 3196 Impact Factor: 3.576 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/s22093196	2022
Permissions-Based Detection of Android Malware Using Machine Learning <i>Fahad Akbar Mehdi Hussain Rafia Mumtaz Qaiser Riaz Ainuddin Wahid Abdul Wahab Ki-Hyun Jung</i> <i>Symmetry</i> , Volume 14(4), Article Number 718 Impact Factor: 2.7 Quartile: 2 Citations: 32 DOI: https://doi.org/10.3390/sym14040718	2022
Spatiotemporal Clustering and Analysis of Road Accident Hotspots by Exploiting GIS Technology and Kernel Density Estimation <i>Syed Saqib Ali Kazmi Mehreen Ahmed Rafia Mumtaz Zahid Anwar</i> <i>Computer Journal</i> , Volume 65, Issue 2, Pages 155-176 Impact Factor: 1.494 Quartile: 3 Citations: 31 DOI: https://doi.org/10.1093/comjnl/bxz158	2022
Bacterial Prediction using Internet of Things (IoT) and Machine Learning <i>Hamza Khurshid Rafia Mumtaz Noor Alvi Ayesha Haque Sadaf Mumtaz Faisal Shafait Sheraz Ahmad Muhammad Imran Malik Andreas Dengel</i> <i>Environmental Monitoring and Assessment</i> , Volume 194, Article Number 133 Impact Factor: 2.513 Quartile: 3 Citations: 17 DOI: https://doi.org/10.1007/s10661-021-09698-4	2022
Embedded AI-Based Digi-Healthcare <i>Zarlish Ashfaq Rafia Mumtaz Abdur Rafay Syed Mohammad Hassan Zaidi Hadia Saleem Sadaf Mumtaz Adnan Shahid Eli De Poorter Ingrid Moerman</i> <i>Applied Sciences</i> , Volume 12, Issue 1, Article Number 519 Impact Factor: 2.9 Quartile: 2 Citations: 34 DOI: 10.3390/ app12010519	2022
Wheat Yellow Rust Disease Infection Type Classification Using Texture Features <i>Uferah Shafi Rafia Mumtaz Ihsan Ul Haq Maryam Hafeez Naveed Iqbal Arsalan Shaukat Syed Mohammad Hassan Zaidi Zahid Mahmood</i> <i>Sensors</i> , Volume 22(1), Article Number 146 Impact Factor: 3.9 Quartile: 2 Citations: 34 DOI: 10.3390/s22010146	2022
Assessing the Impact of Segmentation on Wheat Stripe Rust Disease Classification Using Computer Vision and Deep Learning <i>Hassan Raza bukhari Rafia Mumtaz Salman Inayat Uferah Shafi Ihsan Ul Haq Syed Mohammad Hassan Zaidi Maryam Hafeez</i> <i>IEEE Access</i> , Volume 9, Pages 164986-165004 Impact Factor: 3.367 Quartile: 2 Citations: 30 DOI: 10.1109/ACCESS.2021.3134196	2021
Super Resolution Generative Adversarial Network (SRGANs) for Wheat Stripe Rust Classification. <i>Muhammad Hassan Maqsood Rafia Mumtaz Ihsan Ul Haq Uferah Shafi Syed Mohammad Hassan Zaidi Maryam Hafeez</i> <i>Sensors</i> , Volume 21(23), Article Number 7903 Impact Factor: 3.576 Quartile: 2 Citations: 23 DOI: https://doi.org/10.3390/s21237903	2021
Analysis of water quality indices and machine learning techniques for rating water pollution: a case study of Rawal Dam, Pakistan <i>Mehreen Ahmed Rafia Mumtaz Syed Mohammad Hassan Zaidi</i> <i>Water Science and Technology-Water Supply</i> , Volume 21, Issue 6	2021

Impact Factor: 1.768 Quartile: 4 Citations: 50 DOI: https://doi.org/10.2166/ws.2021.082	
Assessment of Knowledge, Perceptions and Perceived Risk Concerning COVID-19 in Pakistan <i>Ayesha Haque Sadaf Mumtaz Rafia Mumtaz Farheen Masood Hudebia Allah Buksh Amal Ahmed Osama Khattak</i> <i>Journal of Epidemiology and Global Health</i> , Volume 11(2), Pages 186–193 Impact Factor: 5.959 Quartile: 1 Citations: 7 DOI: https://dx.doi.org/10.2991/jegh.k.210109.001	2021
Gray level co-occurrence matrix (GLCM) texture based crop classification using low altitude remote sensing platforms <i>Naveed Iqbal Rafia Mumtaz Uferah Shafi Syed Mohammad Hassan Zaidi</i> <i>PeerJ Computer Science</i> , Volume 7, Article Number e536 Impact Factor: 2.411 Quartile: 2 Citations: 154 DOI: https://doi.org/10.7717/peerj-cs.536	2021
Precision Measurement for Industry 4.0 Standards towards Solid Waste Classification through Enhanced Imaging Sensors and Deep Learning Model <i>Leow Wei Qin Muneer Ahmad Ihsan Ali Rafia Mumtaz Syed Mohammad Hassan Zaidi Sultan S. Alshamrani Muhammad Ahsan Raza Muhammad Tahir</i> <i>Wireless Communications and Mobile Computing</i> , Volume 2021, Article ID 9963999, 10 pages Impact Factor: 2.146 Quartile: 3 Citations: 30 DOI: https://doi.org/10.1155/2021/9963999	2021
Internet of Things (IoT) Based Indoor Air Quality Sensing and Predictive Analytic-A COVID-19 Perspective <i>Rafia Mumtaz Syed Mohammad Hassan Zaidi Muhammad Zeeshan Shakir Uferah Shafi Muhammad Moez Malik Ayesha Haque Sadaf Mumtaz Syed Ali Raza Zaidi</i> <i>Electronics</i> , Volume 10(2), Article Number 184 Impact Factor: 2.690 Quartile: 3 Citations: 85 DOI: https://doi.org/10.3390/electronics10020184	2021
Distributed Fog Computing for Internet of Things (IoT) Based Ambient Data Processing and Analysis <i>Mehreen Ahmed Rafia Mumtaz Syed Mohammad Hassan Zaidi Maryam Hafeez Syed Ali Raza Zaidi Muneer Ahmed</i> <i>Electronics</i> , Volume 9, Issue 11, Article Number 1756 Impact Factor: 2.397 Quartile: 3 Citations: 29 DOI: 10.3390/electronics9111756	2020
Comparing the preventive behaviour of medical students and physicians in the era of COVID19; novel medical problems demand novel-curricular interventions <i>Ayesha Haque Sadaf Mumtaz Osama Khattak Rafia Mumtaz Amal Ahmed</i> <i>Biochemistry and Molecular Biology Education</i> , Pages 1-9 Impact Factor: 1.160 Quartile: 4 Citations: 21 DOI: 10.1002/bmb.21406	2020
A Multi-modal Approach for Crop Health Mapping using low altitude Remote Sensing, Internet of Things (IoT) and Machine Learning <i>Rafia Mumtaz Uferah Shafi Naveed Iqbal Syed Mohammad Hassan Zaidi Syed Ali Raza Zaidi Imtiaz Hussain Zahid Mahmood</i> <i>IEEE Access</i> , Volume 8, Pages 112708-112724 Impact Factor: 3.367 Quartile: 2 Citations: 103 DOI: 10.1109/ACCESS.2020.3002948	2020
Water Quality Monitoring: From Conventional to Emerging Technologies <i>Umair Ahmed Rafia Mumtaz Hirra Anwar Sadaf Mumtaz Ali Mustafa Qamar</i> <i>Water Supply</i> , Vol. 20, No. 1, Pages 28-45 Impact Factor: 1.275 Quartile: 4 Citations: 92 DOI: 10.2166/ws.2019.144	2020
Efficient Water Quality Prediction Using Supervised Machine Learning <i>Umair Ahmed Rafia Mumtaz Hirra Anwar Asad Ali Shah Rabia Irfan José García-Nieto</i> <i>Water</i> , Volume 11, Issue 11, Article Number:2210 Impact Factor: 2.544 Quartile: 2 Citations: 351 DOI: 10.3390/w11112210	2019
Precision Agriculture Techniques and Practices: From Considerations to Applications <i>Uferah Shafi José García-Nieto Syed Ali Raza Zaidi Naveed Iqbal Rafia Mumtaz Syed Ali Hassan</i>	2019

<i>Sensors</i> , Volume 19 , No. 17	
Impact Factor: 3.275 Quartile: 1 Citations: 529	
DOI: 10.3390/s19173796	
Delineation of Groundwater Prospective Resources by Exploiting Geo-spatial Decision Making Techniques for the Kingdom of Saudi Arabia	2019
<i>Rafia Mumtaz Shahbaz Baig Syed Saqib Ali Kazmi Farooq Ahmad Iram Fatima Badar Ghauri</i>	
<i>Neural Computing and Applications</i> , Volume 31, Issue 9, pp 5379–5399	
Impact Factor: 4.774 Quartile: 1 Citations: 21	
DOI: 10.1007/s00521-018-3370-z	
Prediction of postpartum depression using machine learning techniques from social media text	2019
<i>Iram Fatima Burhan Ud Din Abbasi Sharif Ullah Khan Majed Al-Saeed Hafiz Farooq Ahmad Rafia Mumtaz</i>	
<i>Expert Systems</i> , Volume 36, Issue 4, Special Issue SI	
Impact Factor: 1.546 Quartile: 2 Citations: 65	
DOI: 10.1111/exsy.12409	
A Comparison of Debate and Role Play in Enhancing Critical Thinking and Communication Skills of Medical Students During Problem Based Learning	2018
<i>Rabia Latif Sadaf Mumtaz Rafia Mumtaz Aamir Hussain</i>	
<i>Biochemistry and Molecular Biology Education</i> , Volume 46, Issue 04, Pages 336-342	
Impact Factor: 0.947 Quartile: 4 Citations: 50	
DOI: https://doi.org/10.1002/bmb.21124	
Automatic detection of retinal hemorrhages by exploiting image processing techniques for screening retinal diseases in diabetic patients	2018
<i>Rafia Mumtaz Muddasser Hussain Saba Sarwar Komal Khan Sadaf Mumtaz Mustafa Mumtaz</i>	
<i>International Journal of Diabetes in Developing Countries</i> , Vol: 38, Pages:80-87	
Impact Factor: 0.585 Quartile: 4 Citations: 37	
DOI: 10.1007/s13410-017-0561-6	
Analysis of Meteorological Variations on Wheat Yield and its Estimation Using Remotely Sensed Data. A case study of Selected Districts of Punjab Province, Pakistan (2001-14)	2017
<i>Rafia Mumtaz Shahbaz Baig Iram Fatima</i>	
<i>Italian Journal of Agronomy</i> , Vol:12, No: 3,	
Impact Factor: 0.579 Quartile: 4 Citations: 21	
DOI: https://doi.org/10.4081/ija.2017.897	
Taxonomy for Trust Models in Cloud Computing	2015
<i>Ayesha Kanwal Rahat Masood Muhammad Awais Shibli Rafia Mumtaz</i>	
<i>Computer Journal</i> , Volume 58, Issue 4, Pages 601-626	
Impact Factor: 1.000 Quartile: 2 Citations: 13	
DOI: 10.1093/comjnl/bxu138	
Image based spacecraft pointing using Single Bank Dual Band Registration	2014
<i>Rafia Mumtaz Phil Palmer Muhammad Awais Shibli Kashif Sharif Mustafa Mumtaz</i>	
<i>International Journal of Remote Sensing</i> , Volume: 35, Issue: 22, Pages: 7583-7613	
Impact Factor: 1.652 Quartile: 2	
DOI: 10.1080/01431161.2014.968986	
Georeferencing of UK DMC stereo-images without ground control points by exploiting geometric distortions	2014
<i>Rafia Mumtaz P.L. Palmer M.M. Waqar</i>	
<i>International Journal of Remote Sensing</i> , Volume: 35, Issue: 6, Pages: 2136-2169	
Impact Factor: 1.652 Quartile: 2 Citations: 10	
DOI: 10.1080/01431161.2014.887236	
Attitude Determination by Exploiting Geometric Distortions in Stereo Images of DMC Camera	2013
<i>Rafia Mumtaz Phil Palmer</i>	
<i>IEEE Transactions on Aerospace and Electronic Systems</i> , Volume: 49, Issue: 3, Pages: 1601-1625	
Impact Factor: 1.394 Quartile: 1 Citations: 19	
DOI: 10.1109/TAES.2013.6558007	
Development of new indices for extraction of built-up area & bare soil from Landsat data	2012
<i>Mirza Muhammad Waqar Johum Fatimah Mirza Rafia Mumtaz Ejaz Hussain</i>	

Computer Aided Visual Inspection of Aircraft Surfaces

2012

Rafia Mumtaz Mustafa Mumtaz Atif Bin Mansoor Hassan Masood

International Journal of Image Processing, Volume 6, issue 1, Pages 38-53

Impact Factor: N/A

DOI: <https://www.cscjournals.org/library/manuscriptinfo.php?mc=IJIP-490>

User Psychology and Behavioral Effect on Palmprint and Fingerprint Based Multimodal Biometric System

2012

Mustafa Mumtaz Hassan Masood Salah ud Din Rafia Mumtaz

American Journal of Signal Processing, Volume 2, Issue 2, Pages 1-9

Impact Factor: 0

DOI: <http://dx.doi.org/10.5923/j.ajsp.20120202.01>

Conference Proceedings

Near-Real-Time Earth Observation Data Assimilation for Ocean Currents

2024

Shahbaz Baig Waqas A. Qazi Rafia Mumtaz

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