RAFIA MUMTAZ

Professor

School of Electrical Engineering and Computer Science

Email: rafia.mumtaz@seecs.edu.pk
Contact: 000000000
LinkedIn: https://www.linkedin.com/in/rafia-mumtaz-6817b535/

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 2271, carried out 26 projects and filed 16 intellectual property.

Qualifications

PhD in Remote Sensing And Satellite Image Processin   2006 - 2010
University of Surrey , England

MS in Software Engineering   2004 - 2006
NUST, Islamabad , Pakistan

BE in Software Engineering   2000 - 2004
Fatima Jinnah Women University , Pakistan

Experience

Professor   2022- Present
School of Electrical Engineering and Computer Science

Associate Professor   2020 - 2022
School of Electrical Engineering and Computer Science

Assistant Professor   2012 - 2020
School of Electrical Engineering and Computer Science

Assistant Professor   2010 - 2012
School of Electrical Engineering and Computer Science

Assistant Professor   2010 - 2010
Military College of Signals

Visiting Faculty   2023- Present
Coventry University, UK , Coventry University, UK

Assistant Professor   2015 - 2017
King Faisal University , College of Computer Science and Information Technology, King Faisal University, Al-Ahsa, Saudi Arab

Postdoctoral Research Fellow   2011 - 2012
University of Surrey , GU2 7XH, Guildford, United Kingdom

Lab Demonstrator   2009 - 2009
University of Surrey , University of Surrey, Guildford, UK, GU2 7XH

Awards

HEC Best University Teacher Award 2022　　　　　　　　　　　　　　　　2023
   2022, Award given in 2023

Best University Teacher Award 2021-22　　　　　　　　　　　　　　　　2022
   Best University Teacher Award 2021-22

School Best Researcher　　　　　　　　　　　　　　　　　　　　　　　2019
   I was awarded NUST SEECS best researcher award for the year 2018

DAAD Research Grants　　　　　　　　　　　　　　　　　　　　　　　　2018
   DAAD Research Grant of 78758 euros

GCRF,UK Research Grants　　　　　　　　　　　　　　　　　　　　　　2018
   Research Grant awarded to NUST (19000 pounds) for a collaborative project between NUST, University of Leeds, UK and LUMS, Pakistan

HEC NRPU　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2018
   HEC NRPU research grant worth Rs 3.6 million

DPIH Research Award　　　　　　　　　　　　　　　　　　　　　　　　2017
   DPIH Research Appreciation Award(5000 Saudi Riyal), 2017

National ICT-R&DGrassroot　　　　　　　　　　　　　　　　　　　　　2016
   National ICT R&D Grass root funding (Rs. 45000), 2016

DSR　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2016
   Awarded Deanship of Scientific Research grant, King Faisal University, 2016.

Research Grant　　　　　　　　　　　　　　　　　　　　　　　　　　2011
   I was awarded Research Grant of 50000 euros by European Space Agency (ESA), United Kingdom, 2011

Good academic & research　　　　　　　　　　　　　　　　　　　　　2010
   I was awarded Good academic and research record certificate by University of surrey in 2010

Excellent presentation　　　　　　　　　　　　　　　　　　　　　　　2010
   I was awarded Excellent presentation skills certificate by university of surrey in 2010

Travel Grant　　　　　　　　　　　　　　　　　　　　　　　　　　　2008
   A travel grant was awarded to me by HEC in 2008

PhD Scholarship　　　　　　　　　　　　　　　　　　　　　　　　　2006
   I was awarded PhD scholarship for studying abraod

Endowment Fund　　　　　　　　　　　　　　　　　　　　　　　　　2005
   Endowment Fund Scholarship was awarded to me during my MS for maintaining CGPA >3.5

Professional Memberships

ACM

PEC

IEEE

Research Projects

National Projects

Enhancing STEM Education through Project-Based Learning/CDIO: A Strategy to Improve Student　　2025
Experience and Produce Industry-Ready Graduates Using the 'Train the Trainer' Model
   Funding Agency: British Council
   Amount: PKR N/A
   Status: Approved_inprocess

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 2021
Network Driven Policy Decisions
   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 2018
Agriculture
   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
   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

Enhancing Ransomware Detection with Machine Learning Techniques and Effective API Integration

2025

Asad Iqbal Mehdi Hussain Qaiser Riaz Madiha Khalid RAFIA MUMTAZ Ki-Hyun Jung

Computers, Materials & Continua, Pages 1-22

Exploring FarmBot in Agriculture Applications: An AI and IoT-Based Robotic System for Farmers with Disabilities

2025

Noor Sajjad RAFIA MUMTAZ Aryan Kaushik Zahid Mahmood Syed Ali Hassan

IEEE Internet of Things Magazine, Volume:8, Issue:4, Pages 70-76

Disentangled representation learning for multilabel generalized zero-shot learning

2025

Muqaddas Gull Omar Arif Rafia Mumtaz Mubashir Ahmad

International Journal of General Systems, Pages 1-21

3D vision object detection for autonomous driving in fog using LiDaR

2025

Alishba Tahir RAFIA MUMTAZ Muhammad Saqib Irshad

Simulation Modelling Practice and Theory, Volume:140, Article Number 103089

Data-Driven Spatial Analysis of Reforestation in Pakistan: Identifying Optimal Locations for Sustainable Forest Growth and Climate Change Mitigation

2024

Amna Faisal Rafia Mumtaz Muhammad Deedahwar Mazhar Qureshi Muhammad Ali Tahir N. Z. Jhanjhi Mehedi Masud Mohammad Shorfuzzaman

IEEE ACCESS, Volume 12, Pages 190375-190388

Wheat Leaf Localisation and Segmentation for Yellow Rust Disease Detection in Complex Natural Backgrounds

2024

Amna Hassan Rafia Mumtaz Zahid Mahmood Muhammad Fayyaz Muhammad Kashif Naeem

Alexandria Engineering Journal, Volume 107, Pages 786-798

Temporal assessment of forest cover dynamics in response to forest fires and other environmental impacts using AI

2024

Shehla Noor Rafia Mumtaz Muhammad Ajmal Khan

Environmental Monitoring and Assessment, Volume 196, Article Number 893

Fabric Defect Detection in Real World Manufacturing Using Deep Learning

2024

Mariam Nasim Rafia Mumtaz Muneer Ahmad Arshad Ali

Real-Time Human Authentication System Based on Iris Recognition, Volume 15(8), Article Number 476

Unmanned surface vehicle for intelligent water quality assessment to promote sustainable human health

2024

Muhammad Ibtsaam Qadir Rafia Mumtaz Mariam Manzoor Misbah Saleem Muhammad Ajmal Khan Susanne Charlesworth

Water Supply, Volume 24, Issue 7, Pages 2259-2270

Cardiac Arrhythmia Classification Using Advanced Deep Learning Techniques on Digitized ECG Datasets

2024

Shoaib Sattar Rafia Mumtaz Mamoon Qadir Sadaf Mumtaz Muhammad Ajmal Khan Timo De Waele Eli De Poorter Ingrid Moerman Adnan Shahid

Sensors, Volume 24(8), Article Number 2484

Deforestation detection and reforestation potential due to natural disasters—A case study of floods

Muhammad Hassan Maqsood Rafia Mumtaz Muhammad Ajmal Khan

Remote Sensing Applications: Society and Environment, Volume 34, Article Number: 101188, Pages: 18

Tackling food insecurity using remote sensing and machine learning based crop yield prediction

Uferah Shafi Rafia Mumtaz Zahid Anwar Muhammad Muzyyab Ajmal Muhammad Ajmal Khan Zahid Mahmood Maqsood Qamar Hafiz Muhammad Jhanzab

IEEE Access , Volume 11, Pages 108640-108657

Integrated digital image processing techniques and deep learning approaches for wheat stripe rust disease detection and grading

Rafia Mumtaz Muhammad Hassan Maqsood Ihsan Ul Haq Uferah Shafi Zahid Mahmood Mustafa Mumtaz

Decision Analytics Journal , Volume 8, Article Number 100305

Impact of Green Energy Transportation Systems on Urban Air Quality: A Predictive Analysis Using Spatiotemporal Deep Learning Techniques

Rafia Mumtaz Arslan Amin Muhammad Ajmal Khan Muhammad Daud Abdullah Asif Zahid Anwar Muhammad Jawad Bashir

Energies , Volume 16, Issue 16, Article Number 6087

Assessment of the monsoonal impact of air pollutants and meteorological factors on physicochemical water quality parameters using remote sensing

Mehreen Ahmed Rafia Mumtaz Zahid Anwar Syed Mohammad Hassan Zaidi

Journal of Water and Climate Change , Volume 14, Issue 7, Pages 2164-2190

Embedded AI for Wheat Yellow Rust Infection Type Classification

Uferah Shafi Rafia Mumtaz Muhammad Deedahwar Mazhar Qureshi Zahid Mahmood Sikander Khan Tanveer Ihsan Ul Haq Syed Mohammad Hassan Zaidi

IEEE Access , Volume 11, Pages 23726-23738

An Enhanced Water Quality Index for Water Quality Monitoring Using Remote Sensing and Machine Learning

Mehreen Ahmed Rafia Mumtaz Zahid Anwar

Applied Sciences , Volume 12, issue 24, Article Number 12787

A Multi–Step Approach for Optically Active and Inactive Water Quality Parameter Estimation Using Deep Learning and Remote Sensing

Mehreen Ahmed Rafia Mumtaz Zahid Anwar Arsalan Shaukat Omar Arif Faisal Shafait

Water , Volume 14, Issue 13, Article Number 2112

Wheat rust disease detection techniques: a technical perspective

Uferah Shafi Rafia Mumtaz Zunaira Shafaq Syed Mohammad Hassan Zaidi Muhammad Owais Kaifi Zahid Mahmood Syed Ali Raza Zaidi

Journal of Plant Diseases and Protection, Volume 129, Issue 3, Pages 489-504

A review of enabling technologies for Internet of Medical Things (IoMT) Ecosystem

Zarlish Ashfaq Abdur Rafay Rafia Mumtaz Syed Mohammad Hassan Zaidi Hadia Saleem Syed Ali Raza Zaidi Sadaf Mumtaz Ayesha Haque

Ain Shams Engineering Journal, Volume 13, Issue 4, Article Number 101660

Assessment of correlation amongst physico-chemical, topographical, geological, lithological and soil type parameters for measuring water quality of Rawal watershed using remote sensing

2022

Mehreen Ahmed Rafia Mumtaz Shahbaz Baig Syed Mohammad Hassan Zaidi

Water Supply , Volume 22, Issue 4, Article Number 3645

How IoT-Driven Citizen Science Coupled with Data Satisficing Can Promote Deep Citizen Science

2022

Stefan Poslad Tayabba Irum Patricia Charlton Rafia Mumtaz Muhammad Azam Syed Mohammad Hassan Zaidi Christothea Herodotou Guangxia Yu Fesal Toosy

Sensors , Volume 22, Issue 9, Article Number 3196

Permissions-Based Detection of Android Malware Using Machine Learning

2022

Fahad Akbar Mehdi Hussain Rafia Mumtaz Qaiser Riaz Ainuddin Wahid Abdul Wahab Ki-Hyun Jung

Symmetry , Volume 14(4), Article Number 718

Spatiotemporal Clustering and Analysis of Road Accident Hotspots by Exploiting GIS Technology and Kernel Density Estimation

2022

Syed Saqib Ali Kazmi Mehreen Ahmed Rafia Mumtaz Zahid Anwar

Computer Journal , Volume 65, Issue 2, Pages 155-176

Bacterial Prediction using Internet of Things (IoT) and Machine Learning

2022

Hamza Khurshid Rafia Mumtaz Noor Alvi Ayesha Haque Sadaf Mumtaz Faisal Shafait Sheraz Ahmad Muhammad Imran Malik Andreas Dengel

Environmental Monitoring and Assessment , Volume 194, Article Number 133

Embedded AI-Based Digi-Healthcare

2022

Zarlish Ashfaq Rafia Mumtaz Abdur Rafay Syed Mohammad Hassan Zaidi Hadia Saleem Sadaf Mumtaz Adnan Shahid Eli De Poorter Ingrid Moerman

Applied Sciences , Volume 12, Issue 1, Article Number 519

Wheat Yellow Rust Disease Infection Type Classification Using Texture Features

2022

Uferah Shafi Rafia Mumtaz Ihsan Ul Haq Maryam Hafeez Naveed Iqbal Arsalan Shaukat Syed Mohammad Hassan Zaidi Zahid Mahmood

Sensors , Volume 22(1), Article Number 146

Assessing the Impact of Segmentation on Wheat Stripe Rust Disease Classification Using Computer Vision and Deep Learning

2021

Hassan Raza bukhari Rafia Mumtaz Salman Inayat Uferah Shafi Ihsan Ul Haq Syed Mohammad Hassan Zaidi Maryam Hafeez

IEEE Access , Volume 9, Pages 164986-165004

Super Resolution Generative Adversarial Network (SRGANs) for Wheat Stripe Rust Classification.

2021

Muhammad Hassan Maqsood Rafia Mumtaz Ihsan Ul Haq Uferah Shafi Syed Mohammad Hassan Zaidi Maryam Hafeez

Sensors , Volume 21(23), Article Number 7903

Analysis of water quality indices and machine learning techniques for rating water pollution: a case study of Rawal Dam, Pakistan

2021

Mehreen Ahmed Rafia Mumtaz Syed Mohammad Hassan Zaidi

Water Science and Technology-Water Supply , Volume 21, Issue 6

Assessment of Knowledge, Perceptions and Perceived Risk Concerning COVID-19 in Pakistan

2021

Ayesha Haque Sadaf Mumtaz Rafia Mumtaz Farheen Masood Hudebia Allah Buksh Amal Ahmed Osama Khattak

Journal of Epidemiology and Global Health, Volume 11(2), Pages 186–193

Gray level co-occurrence matrix (GLCM) texture based crop classification using low altitude remote sensing platforms

2021

Naveed Iqbal Rafia Mumtaz Uferah Shafi Syed Mohammad Hassan Zaidi

PeerJ Computer Science, Volume 7, Article Number e536

Precision Measurement for Industry 4.0 Standards towards Solid Waste Classification through Enhanced Imaging Sensors and Deep Learning Model

2021

Leow Wei Qin Muneer Ahmad Ihsan Ali Rafia Mumtaz Syed Mohammad Hassan Zaidi Sultan S. Alshamrani Muhammad Ahsan Raza Muhammad Tahir

Wireless Communications and Mobile Computing, Volume 2021, Article ID 9963999, 10 pages

Internet of Things (IoT) Based Indoor Air Quality Sensing and Predictive Analytic-A COVID-19 Perspective

2021

Rafia Mumtaz Syed Mohammad Hassan Zaidi Muhammad Zeeshan Shakir Uferah Shafi Muhammad Moeez Malik Ayesha Haque Sadaf Mumtaz Syed Ali Raza Zaidi

Electronics, Volume 10(2), Article Number 184

Distributed Fog Computing for Internet of Things (IoT) Based Ambient Data Processing and Analysis

2020

Mehreen Ahmed Rafia Mumtaz Syed Mohammad Hassan Zaidi Maryam Hafeez Syed Ali Raza Zaidi Muneer Ahmed

Electronics, Volume 9, Issue 11, Article Number 1756

Comparing the preventive behaviour of medical students and physicians in the era of COVID19; novel medical problems demand novel-curricular interventions

2020

Ayesha Haque Sadaf Mumtaz Osama Khattak Rafia Mumtaz Amal Ahmed

Biochemistry and Molecular Biology Education, Pages 1-9

A Multi-modal Approach for Crop Health Mapping using low altitude Remote Sensing, Internet of Things (IoT) and Machine Learning

2020

Rafia Mumtaz Uferah Shafi Naveed Iqbal Syed Mohammad Hassan Zaidi Syed Ali Raza Zaidi Imtiaz Hussain Zahid Mahmood

IEEE Access, Volume 8, Pages 112708-112724

Water Quality Monitoring: From Conventional to Emerging Technologies

2020

Umair Ahmed Rafia Mumtaz Hirra Anwar Sadaf Mumtaz Ali Mustafa Qamar

Water Supply, Vol. 20 , No. 1, Pages 28-45

Efficient Water Quality Prediction Using Supervised Machine Learning

2019

Umair Ahmed Rafia Mumtaz Hirra Anwar Asad Ali Shah Rabia Irfan José García-Nieto

Water, Volume 11, Issue 11, Article Number:2210

Precision Agriculture Techniques and Practices: From Considerations to Applications

2019

Uferah Shafi José García-Nieto Syed Ali Raza Zaidi Naveed Iqbal Rafia Mumtaz Syed Ali Hassan

Sensors , Volume 19 , No. 17

Delineation of Groundwater Prospective Resources by Exploiting Geo-spatial Decision Making Techniques for the Kingdom of Saudi Arabia

2019

Rafia Mumtaz Shahbaz Baig Syed Saqib Ali Kazmi Farooq Ahmad Iram Fatima Badar Ghauri

Neural Computing and Applications , Volume 31, Issue 9, pp 5379–5399

Prediction of postpartum depression using machine learning techniques from social media text

2019

Iram Fatima Burhan Ud Din Abbasi Sharif Ullah Khan Majed Al-Saeed Hafiz Farooq Ahmad Rafia Mumtaz

Expert Systems , Volume 36, Issue 4, Special Issue SI

A Comparison of Debate and Role Play in Enhancing Critical Thinking and Communication Skills of Medical Students During Problem Based Learning

2018

Rabia Latif Sadaf Mumtaz Rafia Mumtaz Aamir Hussain

Biochemistry and Molecular Biology Education , Volume 46, Issue 04, Pages 336-342

Automatic detection of retinal hemorrhages by exploiting image processing techniques for screening retinal diseases in diabetic patients

2018

Rafia Mumtaz Muddasser Hussain Saba Sarwar Komal Khan Sadaf Mumtaz Mustafa Mumtaz

International Journal of Diabetes in Developing Countries, Vol: 38, Pages:80-87

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

Rafia Mumtaz Shahbaz Baig Iram Fatima

Italian Journal of Agronomy , Vol:12, No: 3,

Taxonomy for Trust Models in Cloud Computing

2015

Ayesha Kanwal Rahat Masood Muhammad Awais Shibli Rafia Mumtaz

Computer Journal , Volume 58, Issue 4, Pages 601-626

Image based spacecraft pointing using Single Bank Dual Band Registration

2014

Rafia Mumtaz Phil Palmer Muhammad Awais Shibli Kashif Sharif Mustafa Mumtaz

International Journal of Remote Sensing, Volume: 35, Issue: 22, Pages: 7583-7613

Georeferencing of UK DMC stereo-images without ground control points by exploiting geometric distortions

2014

Rafia Mumtaz P.L. Palmer M.M. Waqar

International Journal of Remote Sensing, Volume: 35, Issue: 6, Pages: 2136-2169

Attitude Determination by Exploiting Geometric Distortions in Stereo Images of DMC Camera

2013

Rafia Mumtaz Phil Palmer

IEEE Transactions on Aerospace and Electronic Systems, Volume: 49, Issue: 3, Pages: 1601-1625

Development of new indices for extraction of built-up area & bare soil from Landsat data

2012

Mirza Muhammad Waqar Johum Fatimah Mirza Rafia Mumtaz Ejaz Hussain

Scientific Reports , Volume 1, Issue 1, Article Number 136

Impact Factor: 2.927 | **Quartile:** 1

DOI: 10.4172/scientificreports.136,2012

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 2012
System

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

IEEE International Symposium on Geoscience and Remote Sensing (IGARSS), res.country(88,)

Citations: N/A

DOI: 10.1109/IGARSS53475.2024.10641867

Next-Generation License Plate Detection and Recognition System using YOLOv8 2023

Arslan Amin Rafia Mumtaz Muhammad Jawad Bashir Syed Mohammad Hassan Zaidi

2023 IEEE 20th International Conference on Smart Communities: Improving Quality of Life using AI, Robotics and IoT (HONET) res.country(233,)

Citations: N/A

DOI: 10.1109/HONET59747.2023.10374756

Assessment of Wheat Productivity Enhancement by Integrated Nutrient Management (INM) using 2023
Remote Sensing

Uferah Shafi Rafia Mumtaz Zahid Mahmood Muhammad Deedahwar Mazhar Qureshi Raza Ullah Khan Syed Ishtiaq Hyder Sikander Khan Tanveer

2023 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing, MIGARS 2023, res.country(104,)

Citations: N/A

DOI: 10.1109/MIGARS57353.2023.10064574

Quantum Internet: A Revolutionary Disruption 2022

Syed Mohammad Hassan Zaidi Muhammad Annas Khan Maham Iftikhar Rafia Mumtaz Parsa Rukhsar Hafiza Zunera Muhammad Abdul Aleem

IEEE 19th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI, HONET 2022 res.country(233,)

Citations: N/A

DOI: 10.1109/HONET56683.2022.10018973

Crime Classification Using Machine Learning and Data Analytic 2022

Muhammad Naqi Haider Rafia Mumtaz Syed Mohammad Hassan Zaidi

IEEE 19th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI, HONET 2022 res.country(233,)

Citations: N/A

DOI: 10.1109/HONET56683.2022.10018990

Enhancing NDVI Calculation of Low-Resolution Imagery using ESRGANs 2022

Muhammad Mahad Khaliq Rafia Mumtaz

2022 24th International Multitopic Conference (INMIC) , res.country(177,)

Citations: N/A

DOI: 10.1109/INMIC56986.2022.9972928

Multiclass Heartbeat Classification using ECG Signals and Convolutional Neural Networks 2022

Muhammad Deedahwar Mazhar Qureshi Daniel Peralta C´amara Eli De Poorter Rafia Mumtaz Adnan Shahid Ingrid Moerman Timo de Waele

2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

Citations: N/A

DOI: 10.1109/ICoDT255437.2022.9787419

Paving the way to cardiovascular health monitoring using Internet of Medical Things and Edge-AI 2022

Muhammad Talha Rafia Mumtaz Abdur Rafay

2022 2nd International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(282,)

A Multi-Modal Approach For Crop Health Mapping Using Low Altitude Remote Sensing, Internet Of Things (Iot) And Machine Learning

2022

Rafia Mumtaz

Virtual Conference on Artificial Intelligence and Robotics, res.country(113,)

Wheat Rust Disease Classification using Edge-AI

2022

Ihsan Ul Haq Rafia Mumtaz Muhammad Talha Zunaira Shafaq Muhammad Owais

2nd International Conference on Artificial Intelligence (ICAI), res.country(177,)

A Survey of Sentiment Analysis of Internet Textual Data and Application to Pakistani YouTube User Comments

2021

Mehwish Rani Seemab Latif Muhammad Ali Tahir Rafia Mumtaz

IEEE International Conference on Digital Futures and Transformative Technologies (ICoDT2), res.country(177,)

A review of the prevalent ICT techniques used for COVID-19 SOP violation detection

2020

Talha Ikram Abdullah Saeed Noor Ul Ayn Muhammad Ali Tahir Rafia Mumtaz

2020 IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET) res.country(233,)

A Survey of Artificial Intelligence and Internet of Things (IoT) based approaches against Covid-19

2020

Osama Nadeem Muhammad Shajee Saeed Muhammad Ali Tahir Rafia Mumtaz

2020 IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET) res.country(233,)

Internet of Things (IoT) and Machine Learning (ML) enabled Livestock Monitoring

2020

Abdul Aziz Chaudhry Rafia Mumtaz Syed Mohammad Hassan Zaidi Muhammad Ali Tahir Syed Hassan Muzammil School

IEEE 17th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET) res.country(233,)

Joint Optimization of Age of Information and Energy Efficiency in IoT Networks

2020

Qamar Abbas Shah Zeb Syed Ali Hassan Rafia Mumtaz Syed Ali Raza Zaidi

IEEE 91st Vehicular Technology Conference (VTC2020-Spring), res.country(20,)

NOMA Enhanced Backscatter Communication for Green IoT Networks

2019

Shah Zeb Qamar Abbas Syed Ali Hassan Aamir Mahmood Rafia Mumtaz S. M. Hassan Zaidi Syed Ali Raza Zaidi Mikael Gidlund

16th International Symposium on Wireless Communication Systems (ISWCS), res.country(70,)

STIXGEN - A novel framework for Automatic Generation of Structured Cyber Threat Information

2018

Zafar Iqbal Zahid Anwar Rafia Mumtaz

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

A Supervised Machine Learning Based Approach for Automatically Extracting High-Level Threat Intelligence from Unstructured Sources

2018

Yumna Ghazi Zahid Anwar Rafia Mumtaz Shahzad saleem Ali Tahir

2018 International Conference on Frontiers of Information Technology (FIT), res.country(177,)

A Very Low Cost, Open, Wireless, Internet of Things (IoT) Air Quality Monitoring Platform 2018

Hammad Aamer Rafia Mumtaz Hirra Anwar Stefan Poslad

2018 15th International Conference on Smart Cities: Improving Quality of Life Using ICT and IoT, HONET-ICT 2018 res.country(177,)

Citations: N/A
DOI: 10.1109/HONET.2018.8551340

Surface Water Pollution Detection using Internet of Things 2018

Uferah Shafi Rafia Mumtaz Hirra Anwar Ali Mustafa Qamar Hamza Khurshid

2018 15th International Conference on Smart Cities: Improving Quality of Life Using ICT and IoT, HONET-ICT 2018 res.country(177,)

Citations: N/A
DOI: 10.1109/HONET.2018.8551341

An Optimal Distributed Algorithm for Best AP Selection and Load Balancing in WiFi 2018

Uferah Shafi Muhammad Zeeshan Naveed Iqbal Nadia Kalsoom Rafia Mumtaz

15th International Conference on Smart Cities: Improving Quality of Life Using ICT & IoT (HONET-ICT) res.country(177,)

Citations: 13
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DOI: https://doi.org/10.4018/979-8-3693-9030-6

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Editorial Activities

IEEE HONET 2024   2024
Reviewed Papers for Journals
Impact Factor: -

IEEE HONET 2024   2024
Reviewed Papers for Journals
Impact Factor: -

Plants   2024
Edited Journal Issue / Proceeding / Book
Impact Factor: 4.0

Sensors   2023
Reviewed Papers for Journals
Impact Factor: 3.4

IEEE Access   2023
Reviewed Papers for Journals
Impact Factor: 3.4

Water Supply   2023
Reviewed Papers for Journals
Impact Factor: 1.7

Agriculture   2023
Reviewed Papers for Journals
Impact Factor: 3.3

Remote Sensing   2023
Reviewed Papers for Journals
Impact Factor: 4.5

IEEE Access   2023
Reviewed Papers for Journals
Impact Factor: 3.476

IEEE Access   2023
Reviewed Papers for Journals
Impact Factor: 3.476

Arabian Journal for Science and Engineering   2023
Reviewed Papers for Journals
Impact Factor: 2.807

IEEE Access   2022
Reviewed Papers for Journals
Impact Factor: 3.476

IEEE Access   2022
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Impact Factor: 3.476

Sustainability   2022
Reviewed Papers for Journals
Impact Factor: 3.889

Agriculture-Basel   2022
Reviewed Papers for Journals
Impact Factor: 3.408

IEEE Access   2022
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IEEE Internet of Things Journal   2022
Reviewed Papers for Journals
Impact Factor: 10.98

Sustainability   2022
Reviewed Papers for Journals
Impact Factor: 3.889

Symmetry-Basel   2021

Reviewed Papers for Journals
Impact Factor: 2.940

2021

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Intellectual Property

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Telecardio An ECG Visualization and Annotaion Tool for Training Deep Learning Models   2024
   Status: Filed

Fruitalytics: A tool for Fruit Growth and Yield Analysis   2024
   Status: Filed

Air Quality Monitoring and Predicting Service   2021
   Status: Granted Filed

CroHMI- Crop Health Monitoring System using IoT   2020
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Patents

Industrial Designs

Telecardio   2024
   Status: Filed

"Aqua Drone for Water Quality Assessment"   2023
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   Status: Filed

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   Status: Filed

CroHMU-Crop Health Monitoring Unit   2020
   Status: Filed

SIEP - Smart Indoor Environment Purifier   2020
   Status: Filed

SIEHS – Smart Indoor Environment Health Sensing PCB   2020
   Status: Filed

SIEHSU – Smart Indoor Environment Health Sensing Unit   2020
   Status: Filed

AgriEye Mobile Unit   2020
   Status: Granted Filed

CrasAir- Air Quality Monitoring Urban Unit   2020
   Status: Granted Filed

MAPTU - Mobile Atmospheric Pollutant Telemetry Unit   2019
   Status: Granted

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