

# Rabia Irfan

Assistant Professor

School of Electrical Engineering and Computer Science

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About

Dr. Rabia Irfan is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Rabia Irfan has a PhD in Data Science, Machine Learning. Dr. Rabia Irfan has published 17 research articles & conference papers having a citation count of 383, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Data Science, Machine Learning	2012 - 2018
NUST, Islamabad , Pakistan	
MS in Information Reterieval, Information Extraction	2009 - 2012
NUST, Islamabad , Pakistan	
BE in Computer Information Systems	2002 - 2006
NED UET Karachi , Pakistan	

Experience

Assistant Professor	2024- Present
School of Electrical Engineering and Computer Science	
Assistant Professor	2019 - 2024
School of Electrical Engineering and Computer Science	
Visiting Faculty	2018 - 2019
National University of Sciences and Technology , H-12 Campus, Islamabad, Pakistan	
Visiting Faculty	2014 - 2015
National University of Sciences and Technology , H-12 Campus, Islamabad, Pakistan	

Awards

Presidential Goldmedal	2014
I was awarded Presidential Gold medal in my MS done from NUST.	

Professional Memberships

PEC
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Research Projects

National Projects	
Content Extraction and Filtering from Video Stream	2023
Funding Agency: NESCOM	
Amount: PKR 2,000,000.00	
Status: Approved_inprocess	

International Projects

### Online Recruitment Fraud (ORF) Detection Using Deep Learning Approaches

2024

Natasha Akram Rabia Irfan Ahmad Sami Al-Shamayleh Adila Kousar Abdul Qaddos Muhammad Imran Adnan Akhunzada  
*IEEE Access* , Volume 12, Pages 109388-109408

**Impact Factor:** 3.400 | **Quartile:** 2 | **Citations:** 2

**DOI:** 10.1109/ACCESS.2024.3435670

### Designing and Investigating the Impact of an AR Application for Learning Spatial Thinking Skills at Middle Level

2024

Tahira Anwar Lashari Rabia Irfan Saima Anwar Lashari Mian Talha Aziz Tashfa Afzal Sana Anwar Lashari  
*International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Volume 32, No. 7, Pages 1093-1110

**Impact Factor:** 1.000 | **Quartile:** 4

**DOI:** <https://doi.org/10.1142/S021848852440018X>

### Enhancing Tandem Solar Cell's efficiency through convolutional neural network-based optimization of metasurfaces

2023

Ayesha Razi Amna Safdar Rabia Irfan  
*Materials & Design* , Volume 236, Article Number 112475

**Impact Factor:** 8.4 | **Quartile:** 1 | **Citations:** 7

**DOI:** <https://doi.org/10.1016/j.matdes.2023.112475>

### Comprehensive sentimental analysis of tweets towards COVID-19 in Pakistan: a study on governmental preventive measures

2023

Muhammad Faisal Ali Rabia Irfan Tahira Anwar Lashari  
*PeerJ Computer Science* , Pages: 33

**Impact Factor:** 3.8 | **Quartile:** 2 | **Citations:** 3

**DOI:** 10.7717/peerj-cs.1220

### Automatic Taxonomy Generation and Incremental Evolution on Apache Spark Parallelization Framework

2022

Kanwal Aaliyah Rabia Irfan Umara Umar Sanam Nayab  
*KIET Journal of Computing and Information Sciences*, Volume 5, Issue 1, Pages 15-36

**Impact Factor:** N/A

**DOI:** 10.51153/kjcis.v5i1.83

### 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

**Impact Factor:** 2.544 | **Quartile:** 2 | **Citations:** 351

**DOI:** 10.3390/w11112210

### Determining influential factors and challenges in automatic taxonomy generation: a systematic literature review of techniques 1999-2016

2019

Rabia Irfan Sharifullah Khan Muhammad Azeem Abbas Asad Ali Shah  
*Information Research – An International Electronic Journal*, Volume 24 ,No. 2,

**Impact Factor:** 0.763 | **Quartile:** 4

**DOI:** -

### TIE algorithm: a layer over clustering-based taxonomy generation for handling evolving data

2018

Rabia Irfan Ali Mustafa Qamar Sharifullah Khan Kashif Mahmood Rajpoot  
*Frontiers of Information Technology & Electronic Engineering*, Volume 19, Issue 6, Pages 763-782

**Impact Factor:** 1.033 | **Quartile:** 3 | **Citations:** 2

**DOI:** 10.1631/FITEE.1700517

### Refining Kea++ automatic keyphrase assignment

2014

Rabia Irfan Sharifullah Khan Ali Mustafa Qamar Peter Charles Bloodsworth  
*Journal of Information Science* , Volume 40, Issue 4, Pages 446-459

**Impact Factor:** 1.158 | **Quartile:** 2 | **Citations:** 3

**DOI:** <https://doi.org/10.1177/0165551514529054>

- MIoT-based Smart Cardiac Healthcare Monitoring System for Ubiquitous Healthcare Services** 2023  
*Sanam Nayab Rabia Irfan Umara Umar*  
*2023 17th International Conference on Open Source Systems and Technologies, ICOSST 2023 - Proceedings*, res.country(177,)  
**Citations:** N/A  
**DOI:** 10.1109/ICOSST60641.2023.10414195
- Improving the Performance of Pakistan's Justice System and its Ranking Using Data Analytics** 2022  
*Faisal Mehmood Rabia Irfan*  
*IEEE 19th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI, HONET 2022* res.country(233,)  
**Citations:** 1  
**DOI:** 10.1109/HONET56683.2022.10019181
- Text Summarization from Judicial Records using Deep Neural Machines** 2022  
*Ayesha Sarwar Seemab Latif Rabia Irfan Adnan ul-Hassan Faisal Shafait*  
*International Conference on Electrical, Computer, Communications and Mechatronics Engineering, ICECCME 2022* res.country(154,)  
**Citations:** N/A  
**DOI:** 10.1109/ICECCME55909.2022.9987795
- Comparison of Transformer Models for Information Extraction from Court Room Records in Pakistan** 2022  
*Nida Ahmed Seemab Latif Rabia Irfan Adnan ul-Hassan Faisal Shafait*  
*International Conference on Electrical, Computer, Communications and Mechatronics Engineering, ICECCME 2022* res.country(154,)  
**Citations:** 1  
**DOI:** 10.1109/ICECCME55909.2022.9988642
- IoT-based Cardiac Healthcare System for Ubiquitous Healthcare Service** 2021  
*Umara Umar Muazzam A. Khattak Rabia Irfan Jawad Ahmad*  
*2021 International Congress of Advanced Technology and Engineering (ICOTEN)*, res.country(245,)  
**Citations:** 6  
**DOI:** 10.1109/ICOTEN52080.2021.9493478
- Scalable Taxonomy Generation and Evolution on Apache Spark** 2020  
*Kanwal Aaliyah Rabia Irfan*  
*2020 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCCom/CyberSciTech)* , res.country(38,)  
**Citations:** N/A  
**DOI:** 10.1109/DASC-PiCom-CBDCCom-CyberSciTech49142.2020.00110

Editorial Activities

<b>IEEE Access</b> Reviewed Papers for Journals <b>Impact Factor:</b> N/A	2024
<b>IEEE Access</b> Reviewed Papers for Journals <b>Impact Factor:</b> 3.40	2023
<b>Microsoft CMT</b> Reviewed Papers for Journals <b>Impact Factor:</b> N/A	2023
<b>Microsoft CMT</b> Reviewed Papers for Journals <b>Impact Factor:</b> NA	2023
<b>Microsoft CMT</b> Reviewed Papers for Journals <b>Impact Factor:</b> NA	2023
<b>Microsoft CMT</b> Reviewed Papers for Journals <b>Impact Factor:</b> NA	2023
<b>Microsoft CMT</b> Reviewed Papers for Journals <b>Impact Factor:</b> NA	2023
<b>Information Processing and Management</b> Reviewed Papers for Journals <b>Impact Factor:</b> 8.6	2022
<b>Information Processing and Management</b> Reviewed Papers for Journals <b>Impact Factor:</b> 8.6	2022
<b>Journal of Information Science</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.4	2022
<b>Journal of Information Science</b> Reviewed Papers for Journals <b>Impact Factor:</b> 2.462	2022
 Reviewed Papers for Journals <b>Impact Factor:</b> 3.745	2020

Trainings

<b>Advanced AI Bootcamp on Large Language Models (LMM)</b> <b>Partner:</b> Ashar Aziz Foundation (SkyLabs) <b>Duration:</b> 30-May-2024 to 29-Aug-2024	2024
<b>Advanced AI Bootcamp on Deep Neural Networks (DNN)</b> <b>Partner:</b> Ashar Aziz Foundation <b>Duration:</b> 11-Aug-2023 to 17-Nov-2023	2023