

## Saddaf Rubab

Assistant Professor

Military College of Signals

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## About

Dr. Saddaf Rubab is working as Assistant Professor in the Military College of Signals. Dr. Saddaf Rubab has a PhD in Big Data And Distributed Computing. Dr. Saddaf Rubab has published 36 research articles & conference papers having a citation count of 372, carried out 5 projects and filed 0 intellectual property.

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## Qualifications

<b>PhD in Big Data And Distributed Computing</b> Universiti Teknologi Petronas , Malaysia	2014 - 2018
<b>MS in Image Processing</b> NUST, Islamabad , Pakistan	2009 - 2012

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## Experience

<b>Assistant Professor</b> Military College of Signals	2022- Present
<b>Assistant Professor</b> Military College of Signals	2021 - 2021
<b>Assistant Professor</b> Military College of Signals	2018 - 2022
<b>Assistant Professor</b> Military College of Signals	2018 - 2018
<b>Research Fellow</b> Universiti Teknologi PETRONAS, Malaysia , Universiti Teknologi PETRONAS, Malaysia	2018 - 2018
<b>Graduate Assistant</b> Universiti Teknologi PETRONAS, Malaysia , Universiti Teknologi PETRONAS, Malaysia	2014 - 2018
<b>Lecturer</b> National University of Science & Technology (NUST), Pakistan , National University of Science & Technology (NUST), Pakistan	2013 - 2013

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## Awards

<b>Uni Teknologi PETRONAS</b> PhD Scholarship, Universiti Teknologi PETRONAS, Malaysia
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## Research Projects

### National Projects

<b>Automated-Asset Management</b> Funding Agency: IGNITE Amount: PKR N/A Status: Completed	2021
<b>Keen Ear</b> Funding Agency: IGNITE Amount: PKR N/A Status: Completed	2021
<b>Rice Sorter</b> Funding Agency: IGNITE Amount: PKR 78,300.00 Status: Completed	2020
<b>Pollen Hunt</b> Funding Agency: IGNITE Amount: PKR 75,000.00 Status: Completed	2019
<b>Traffic Accident Prediction Model using Deep Learning and Machine Learning Algorithms</b> Funding Agency: HEC Amount: PKR 459,000.00 Status: Completed	2019

### International Projects

## Research Articles

<b>Driver's emotion and behavior classification system based on Internet of Things and deep learning for Advanced Driver Assistance System (ADAS)</b> <i>Mariya Tauqeer Saddaf Rubab Kashif Javed Rizwan Ali Naqvi</i> <i>Computer Communications</i> , Volume 194, Pages 258-267 Impact Factor: 5.047   Quartile: 1   Citations: 15 DOI: <a href="https://doi.org/10.1016/j.comcom.2022.07.031">https://doi.org/10.1016/j.comcom.2022.07.031</a>	2022
<b>Analysis of dimensionality reduction techniques on Internet of Things data using machine learning</b> <i>Lubaba Rashid Saddaf Rubab Majed Alhaisoni Abdullah Alqahtani Shtwai Alsubai Adel Binbusayyis Syed Ahmad Chan Bukhari</i> <i>Sustainable Energy Technologies and Assessments</i> , Volume 52, Part D, Article Number 102304 Impact Factor: 5.353   Quartile: 2   Citations: 15 DOI: <a href="https://doi.org/10.1016/j.seta.2022.102304">https://doi.org/10.1016/j.seta.2022.102304</a>	2022
<b>S-RAP: relevance-aware QoS prediction in web-services and user contexts</b> <i>Hafiz Syed Muhammad Muslim Saddaf Rubab Malik Muhammad Khan Naima Altaf Ali Kashif Bashir Kashif Javed</i> <i>Knowledge and Information Systems</i> , Volume 64, Issue 7, Pages 1997-2022 Impact Factor: 2.531   Quartile: 3   Citations: 5 DOI: <a href="https://doi.org/10.1007/s10115-022-01699-0">https://doi.org/10.1007/s10115-022-01699-0</a>	2022
<b>Hybrid Approach for Shelf Monitoring and Planogram Compliance (Hyb-SMPC) in Retails Using Deep Learning and Computer Vision</b> <i>Mehwish Saqlain Saddaf Rubab Malik Muhammad Zaki Murtaza Nouman Ali Shahzeb Ali</i> <i>Mathematical Problems in Engineering</i> , Volume 2022, Article ID 4916818, 18 pages Impact Factor: 0   Citations: 15 DOI: <a href="https://doi.org/10.1155/2022/4916818">https://doi.org/10.1155/2022/4916818</a>	2022
<b>A framework to predict early news popularity using deep temporal propagation patterns</b> <i>Ramsha Saeed Haider Abbas Sara Asif Saddaf Rubab Malik Muhammad Khan Naima Altaf Shynar Mussiraliyeva</i> <i>Expert Systems with Applications</i> , Volume 195, Article Number 116496 Impact Factor: 6.954   Quartile: 1   Citations: 7 DOI: <a href="https://doi.org/10.1016/j.eswa.2021.116496">https://doi.org/10.1016/j.eswa.2021.116496</a>	2022
<b>A Study on AI-based Waste Management Strategies for the COVID-19 Pandemic</b> <i>Saddaf Rubab Malik Muhammad Zaki Murtaza Fahim Uddin Yawar Abbas Bangash Syed Ali Ammar Taqvi</i>	2022

**Simultaneous fault diagnosis based on multiple kernel support vector machine in nonlinear dynamic distillation column**

2022

Syed Ali Ammar Taqvi Haslinda Zabiri Fahim Uddin Muhammad Naqvi Lemma Dendena Tufa Majida Kazmi Saddaf Rubab Salman Raza Naqvi Abdulhalim Shah Maulud

Energy Science & Engineering, Pages 1-26

Impact Factor: 4.170 | Quartile: 2 | Citations: 21

DOI: <http://doi.org/10.1002/ese3.1058>

**Detection and prediction of traffic accidents using deep learning techniques**

2022

Anique Azhar Saddaf Rubab Malik Muhammad Zaki Murtaza Yawar Abbas Bangash Mohammad Dahman Alshehri Fizza Illahi Ali Kashif Bashir Cluster Computing, Pages 1-17

Impact Factor: 4.4 | Quartile: 1 | Citations: 47

DOI: <https://doi.org/10.1007/s10586-021-03502-1>

**Energy-efficient dynamic channel allocation algorithm in wireless body area network**

2022

Saddaf Rubab Muhammad Ashraf Shahzad Hassan Muhammad Attique Khan Usman Tariq Seifedine Kadry Environment, Development and Sustainability, Pages 1-17

Impact Factor: 3.219 | Quartile: 2 | Citations: 18

DOI: [10.1007/s10668-021-02037-0](https://doi.org/10.1007/s10668-021-02037-0)

**Hemodynamic Response Detection Using Integrated EEG-fNIRS-VPA for BCI**

2022

Hasan Sajid Saddaf Rubab Noman Naseer Arshia Arif Muhammad Jawad Khan Kashif Javed Talha Irfan Khan CMC-Computers, Materials & Continua, Volume 70, No.1, Pages 535-555

Impact Factor: 3.860 | Quartile: 2 | Citations: 5

DOI: [10.32604/cmc.2022.018318](https://doi.org/10.32604/cmc.2022.018318)

**Forensic Analysis of Social Networking Applications on an Android Smartphone**

2021

Mian Muhammad Waseem Iqbal Anoshia Manahil Mohsin Iftikhar Waleed Bin Shahid Khwaja Mansoor Saddaf Rubab Wireless Communications and Mobile Computing, Volume 2021, Article ID 5567592, 36 pages

Impact Factor: 2.146 | Quartile: 3 | Citations: 23

DOI: <https://doi.org/10.1155/2021/5567592>

**Integrated CWT-CNN for Epilepsy Detection Using Multiclass EEG Dataset**

2021

Sidra Naseem Kashif Javed Muhammad Jawad Khan Saddaf Rubab Muhammad Attique Khan Yunyoung Nam CMC-Computers, Materials & Continua, Volume 69, No.1, Pages 471-486

Impact Factor: 3.772 | Quartile: 2 | Citations: 23

DOI: [10.32604/cmc.2021.018239](https://doi.org/10.32604/cmc.2021.018239)

**Enhanced lignin extraction and optimisation from oil palm biomass using neural network modelling**

2021

Tazien Rashid Syed Ali Ammar Taqvi Farooq Sher Saddaf Rubab Murugesan Thanabalan Muhammad Bilal Badar ul Islam Fuel, Volume 293, Pages 120485-120497

Impact Factor: 8.035 | Quartile: 1 | Citations: 99

DOI: <https://doi.org/10.1016/j.fuel.2021.120485>

**Context-oriented trust computation model for industrial Internet of Things**

2021

Ayesha Altaf Haider Abbas Faiza Iqbal Farrukh AslamKh Abdelouahid Derhab Saddaf Rubab Computers & Electrical Engineering, Volume 92, Article Number 107123

Impact Factor: 4.152 | Quartile: 2 | Citations: 15

DOI: <https://doi.org/10.1016/j.compeleceng.2021.107123>

**Enhanced Accuracy for Motor Imagery Detection Using Deep Learning for BCI**

2021

Ayesha Sarwar Kashif Javed Muhammad Jawad Khan Saddaf Rubab Oh-Young Song Usman Tariq Computers, Materials and Continua, Volume 68, No.3, Pages 3825-3840

Impact Factor: 3.772 | Quartile: 2 | Citations: 1

DOI: [10.32604/cmc.2021.016893](https://doi.org/10.32604/cmc.2021.016893)

**A Framework for Classification of Gabor Based Frequency Selective Bone Radiographs Using CNN**

2021

Rehan Nemat Farhan Riaz Ali Hassan Saad Rehman Muhammad Ajmal Azad Muhammad Abbas Farhan Hussain Saddaf Rubab Arabian Journal of Science and Engineering, Volume 46, Pages 4141-4152

Impact Factor: 2.807 | Quartile: 2 | Citations: 2

DOI: <https://doi.org/10.1007/s13369-021-05339-7>

- Automated Design for Recognition of Blood Cells Diseases from Hematopathology using Classical Features Selection and ELM** 2020  
*Muhammad Qasim Hafiz Muhammad Junaid Lodhi Muhammad Nazir Kashif Javed Saddaf Rubab Muhammad Attique Khan Ahmad Din Usman Habib*  
*Microscopy Research and Technique*, Pages 1-15  
**Impact Factor:** 2.769 | **Quartile:** 1 | **Citations:** 35  
**DOI:** <https://doi.org/10.1002/jemt.23578>
- QoS Based Multi-Constraints Bin Packing Job Scheduling Heuristic for Heterogeneous Volunteer Grid Resources** 2019  
**Resources**  
*Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah*  
*The International Arab Journal of Information Technology*, Volume 16, No. 4, Pages 661-668  
**Impact Factor:** 0.467 | **Quartile:** 4  
**DOI:** -
- Application Analysis: Theory of Constraints for Jobs Scheduling on Volunteer Grid Resources** 2016  
*Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah*  
*Advanced Science Letters*, Volume 22, Number 10, Pages 2715-2718  
**Impact Factor:** N/A  
**DOI:** <https://doi.org/10.1166/asl.2016.7026>
- Reliability Driven Constrained Job Scheduling on Volunteer Grid Resources** 2016  
*Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah*  
*Advanced Science Letters*, ADVANCED SCIENCE LETTERS, Volume 22, Number 10, October 2016, pp. 2690-2694(5)  
**Impact Factor:** N/A  
**DOI:** <https://doi.org/10.1166/asl.2016.7024>
- Grid Computing in Light of Resource Management Systems: A Review** 2015  
*Saddaf Rubab Mohd. Fadzil Hassan Ahmad Kamil Mahmood Nasir Mehmood Shah*  
*Journal of Basic and Applied Scientific Research*, Volume 5, Issue 5, Pages 33-43  
**Impact Factor:** -  
**DOI:** 00000278512-4
- Efficient Image Steganographic Algorithms Utilizing Transforms: Wavelet and Contourlet with Blowfish Encryption** 2015  
*Saddaf Rubab Dr. Younus Javed*  
*International Journal of Computer Network and Information Security(IJCNIS)*, International Journal of Computer Network and Information Security(IJCNIS), Vol.7, No.2, PP.15-24, Jan. 2015  
**Impact Factor:** 0  
**DOI:** 10.5815/ijcnis.2015.02.02
- Improved Image Steganography Technique for Colored Images using Wavelet Transform** 2012  
*Saddaf Rubab Muhammad Younas Javed*  
*International Journal of Computer Applications*, International Journal of Computer Applications Volume: 39 Number: 14 Pages: 29-32 February 2012  
**Impact Factor:** 0  
**DOI:** 10.5120/4890-7381
- Improved Image Steganography Technique for Colored Images using Huffman Encoding with Symlet Wavelets** 2012  
*Saddaf Rubab Dr. M. Younus*  
*IJCSI International Journal of Computer Science Issues*, Volume 9., Issue 2  
**Impact Factor:** 0  
**DOI:** 00000278512-7

## Conference Proceedings

- An Efficient Interactive Multilayered Approach for Segmentation of Complex Images** 2021  
*Juwairiyah Naeem Kashif Javed Saddaf Rubab Muhammad Jawad Khan*  
*2021 International Conference on Communication Technologies (ComTech)*, res.country(275,)  
**Citations:** N/A  
**DOI:** 10.1109/ComTech52583.2021
- Towards Efficient Aerial Object Detection: Techniques, Datasets and Challenges** 2021  
*Hirra Anwar Kashif Javed Saddaf Rubab Muhammad Jawad Khan*  
*2021 International Conference on Communication Technologies (ComTech)*, res.country(177,)  
**Citations:** N/A

DOI: 10.1109/ComTech52583.2021	
<b>Detection of moving human using optimized correlation filters in homogeneous environment</b>	2020
<i>Naeem Akbar Sara Tehsin Ahmad Bilal Saddaf Rubab Saad Rehman Rupert Young Naeem Akbar Sara Tehsin Ahmad Bilal Saddaf Rubab Saad Rehman Rupert Young</i> <i>SPIE Defense + Commercial Sensing</i> , res.country(233,)	
Citations: N/A	
DOI: 10.1117/12.2559578	
<b>Experimental Performance Analysis of Job Scheduling Algorithms on Computational Grid using Real Workload Traces</b>	2016
<i>Saddaf Rubab Syed Nasir Mehmood Shah Ahmad Kamil Mahmood Mohd Fadzil Hassan</i> <i>First EAI International Conference on Computer Science and Engineering (COMPSE)</i> , res.country(157,)	
Citations: N/A	
DOI: 10.4108/eai.27-2-2017.152264	
<b>Proactive Job Scheduling and Migration using Artificial Neural Networks for Volunteer Grid</b>	2016
<i>Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah</i> <i>First EAI International Conference on Computer Science and Engineering (COMPSE)</i> , res.country(157,)	
Citations: N/A	
DOI: 10.4108/eai.27-2-2017.152277	
<b>Random Forest Forecast (RFF): One Hour Ahead Jobs in Volunteer Grid</b>	2016
<i>Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah</i> <i>International Conference on Computer &amp; Information Sciences (ICCOINS)</i> , res.country(157,)	
Citations: N/A	
DOI: 10.1109/ICCOINS.2016.7783223	
<b>Performance Management Using Autonomous Control-Based Distributed Coordination Approach in a Volunteer Grid Computing Environment</b>	2016
<i>Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah</i> <i>5th Computer Science On-line Conference 2016 (CSOC2016)</i> , res.country(56,)	
Citations: N/A	
DOI: 10.1007/978-3-319-33622-0_41	
<b>Adoptability Study of Bin-Packing for Scheduling Jobs on Volunteer Grid Resources</b>	2015
<i>Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah</i> <i>7th International Conference on Advances in Information Technology (IAIT)</i> , res.country(217,)	
Citations: N/A	
DOI: 10.1016/j.procs.2015.10.001	
<b>Forecasting Volunteer Grid Workload Using Holt-Winters' Method</b>	2015
<i>Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Syed Nasir Mehmood Shah</i> <i>2nd International Symposium on Technology Management and Emerging Technologies (IEEE)</i> , res.country(157,)	
Citations: N/A	
DOI: 10.1109/ISTMET.2015.7359071	
<b>Job Scheduling Approach Based on Quality of Service Classification in Volunteer Grid Environment</b>	2015
<i>Saddaf Rubab Mohd Fadzil Hassan Ahmad Kamil Mahmood Nasir Mehmood Shah</i> <i>The Fourth International Conference on Computer Science &amp; Computational Mathematics (ICCSCM 2015)</i> , res.country(157,)	
Citations: N/A	
DOI: N/A	
<b>Bin Packing Multi-Constraints Job Scheduling Heuristic for Heterogeneous Volunteer Grid Resources</b>	2015
<i>Saddaf Rubab Nasir Mehmood Shah Ahmad Kamil Mahmood Mohd Fadzil Hassan</i> <i>The Fourth International Conference on Computer Science &amp; Computational Mathematics (ICCSCM 2015)</i> , res.country(157,)	
Citations: N/A	
DOI: N/A	
<b>A review on resource availability prediction methods in volunteer grid computing</b>	2014
<i>Saddaf Rubab Mohd. Fadzil B. Hassan Ahmad Kamil B. Mahmood Nasir Mehmood Shah</i> <i>IEEE International Control System, Computing and Engineering (ICCSCE) 2014</i> , res.country(157,)	
Citations: N/A	
DOI: 10.1109/ICCSCE.2014.7072766	

Editorial Activities

Reviewed Papers for Journals Impact Factor: 1.8	2024
Reviewed Papers for Journals Impact Factor: 3.860	2022
Reviewed Papers for Journals Impact Factor: 3.401	2022
Reviewed Papers for Journals Impact Factor: 3.860	2022
Reviewed Papers for Journals Impact Factor: 5.6	2022
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Reviewed Papers for Journals	2020
Reviewed Papers for Journals Impact Factor: 1.93	2020

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Reviewed Papers for Journals <b>Impact Factor: 2.5</b>	
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