

# Malik Muhammad Zaki Murtaza

Assistant Professor

Military College of Signals

Email: mmurtaza@mcs.edu.pk

Contact: 4448647

LinkedIn: <https://www.linkedin.com/in/malik-muhammad-zaki-murtaza-khan-22a7393>

7

## About

Dr. Malik Muhammad Zaki Murtaza is working as Assistant Professor in the Military College of Signals. Dr. Malik Muhammad Zaki Murtaza has a PhD in Parallel Computing. Dr. Malik Muhammad Zaki Murtaza has published 17 research articles & conference papers having a citation count of 226, carried out 2 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Parallel Computing</b> University of Southern California , United States	2006 - 2012
<b>MCS in Computer Science</b> University of Southern California , United States	2004 - 2006
<b>B.Sc (Hon) in Computer Science</b> Arid Agriculture University , Pakistan	1998 - 2002

## Experience

<b>Assistant Professor</b> Military College of Signals	2021- Present
<b>Assistant Professor</b> Military College of Signals	2012 - 2021
<b>Senior Consultant</b> EVRY Norge AS , Snaroyveien 30A N-1360 FORNEBU NORWAY	2018 - 2018

## Awards

<b>ERCIM ABCDE Fellowship</b> ERCIM ABCDE Fellowship awarded for Postdoctoral research at NTNU Norway,	2013
Merit based Ms led to PhD Scholarship award.	2004

## Professional Memberships

IEEE	Since 2017
------	------------

## Research Projects

<b>National Projects</b>	
<b>An artificial intelligence based workplace assistant</b> Funding Agency: IGNITE Amount: PKR 75,000.00 Status: Completed	2019
<b>SPYDR</b> Funding Agency: IGNITE Amount: PKR 80,000.00 Status: Completed	2020

## International Projects

- S-RAP: relevance-aware QoS prediction in web-services and user contexts** 2022  
*Hafiz Syed Muhammad Muslim Saddam Rubab Malik Muhammad Khan Naima Altaf Ali Kashif Bashir Kashif Javed*  
*Knowledge and Information Systems*, Volume 64, Issue 7, Pages 1997-2022  
**Impact Factor:** 2.531 | **Quartile:** 3 | **Citations:** 5  
**DOI:** <https://doi.org/10.1007/s10115-022-01699-0>
- Hybrid Approach for Shelf Monitoring and Planogram Compliance (Hyb-SMPC) in Retails Using Deep Learning and Computer Vision** 2022  
*Mehwish Saqlain Saddam Rubab Malik Muhammad Zaki Murtaza Nouman Ali Shahzeb Ali*  
*Mathematical Problems in Engineering*, Volume 2022, Article ID 4916818, 18 pages  
**Impact Factor:** 0 | **Citations:** 15  
**DOI:** <https://doi.org/10.1155/2022/4916818>
- A framework to predict early news popularity using deep temporal propagation patterns** 2022  
*Ramsha Saeed Haider Abbas Sara Asif Saddam Rubab Malik Muhammad Khan Naima Altaf Shynar Mussiraliyeva*  
*Expert Systems with Applications*, Volume 195, Article Number 116496  
**Impact Factor:** 6.954 | **Quartile:** 1 | **Citations:** 7  
**DOI:** <https://doi.org/10.1016/j.eswa.2021.116496>
- A Study on AI-based Waste Management Strategies for the COVID-19 Pandemic** 2022  
*Saddad Rubab Malik Muhammad Zaki Murtaza Fahim Uddin Yawar Abbas Bangash Syed Ali Ammar Taqvi*  
*ChemBioEng Reviews*, Volume 9, No. 2, Pages 1-15  
**Impact Factor:** 2.927 | **Quartile:** 2 | **Citations:** 26  
**DOI:** <https://doi.org/10.1002/cben.202100044>
- Detection and prediction of traffic accidents using deep learning techniques** 2022  
*Anique Azhar Saddam 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>
- Textual analysis of traitor-based dataset through semi supervised machine learning** 2021  
*Asif Masood Haider Abbas Faisal Nawaz Janjua Imran Rashid Malik Muhammad Zaki Murtaza*  
*Future Generation Computer Systems*, Volume 125, Pages 652-660  
**Impact Factor:** 7.307 | **Quartile:** 1 | **Citations:** 17  
**DOI:** [10.1016/j.future.2021.06.036](https://doi.org/10.1016/j.future.2021.06.036)
- Robust, Secure, and Adaptive Trust-Oriented Service Selection in IoT-Based Smart Buildings** 2021  
*Malik Muhammad Zaki Murtaza Khan Ayesha Altaf Haider Abbas Faiza Iqbal Mahmoud Daneshmand*  
*IEEE Internet of Things Journal*, Volume 8, Issue 9, Pages 7497-7509  
**Impact Factor:** 10.238 | **Quartile:** 1 | **Citations:** 23  
**DOI:** [10.1109/JIOT.2020.3040775](https://doi.org/10.1109/JIOT.2020.3040775)
- Mitigating service-oriented attacks using context-based trust for smart cities in IoT networks** 2021  
*Ayesha Altaf Haider Abbas Faiza Iqbal Malik Muhammad Zaki Murtaza Abdul Rauf Tehsin Kanwal*  
*Journal of Systems Architecture*, Volume:115, Article Number: 102028  
**Impact Factor:** 5.836 | **Quartile:** 1 | **Citations:** 28  
**DOI:** [10.1016/j.sysarc.2021.102028](https://doi.org/10.1016/j.sysarc.2021.102028)
- Delay Reduction Through Optimal Controller Placement to Boost Scalability in an SDDC** 2019  
*Yawar Abbas Bangash Haider Abbas Waseem Iqbal Malik Muhammad Zaki Murtaza Khan Bilal Rauf Hammad Afzal*  
*IEEE Systems Journal*, -  
**Impact Factor:** 3.987 | **Quartile:** 1  
**DOI:** [10.1109/JSYST.2019.2941904](https://doi.org/10.1109/JSYST.2019.2941904)
- Towards making autotuning mainstream** 2013  
*Protonu Basu Mary Hall Malik Muhammad Zaki Murtaza Khan Suchit Maindola Saurav Muralidharan Shreyas Ramalingham Axel Rivera Manu Shantharam Anand Venkat*  
*International Journal Of High Performance Computing Applications*, NULL  
**Impact Factor:** 1.625 | **Quartile:** 1 | **Citations:** 15  
**DOI:** [10.1177/1094342013493644](https://doi.org/10.1177/1094342013493644)
- A Script-Based Autotuning Compiler System to Generate High-Performance CUDA Code** 2013

Conference Proceedings

<b>Container-Based Virtualization for Heterogeneous HPC Clouds: Insights from the EU H2020 CloudLightning Project</b> <i>Malik Khan Tobias Becker Permural Kuppuudaiyar Anne C. Elster</i> <i>IEEE International Conference on Cloud Engineering (IC2E), res.country(233,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/IC2E.2018.00074	2018
<b>GPU power modeling of HPC applications for the simulation of heterogeneous clouds</b> <i>Antonios T. Makaratzis Malik M. Khan Konstantinos M. Giannoutakis Anne C. Elster Dimitrios Tzovaras</i> <i>12th International Conference, PPAM 2017, res.country(178,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-319-78054-2_9	2017
<b>Characterizing Numascale Clusters with GPUs: MPI-Based and GPU Interconnect Benchmarks</b> <i>Malik Muhammad Zaki Murtaza Anne C. Elster</i> <i>2016 International Conference on High Performance Computing &amp; Simulation (HPCS), res.country(12,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1109/HPCSim.2016.7568422	2016
<b>A Programming Language Interface to Describe Transformations and Code Generation</b> <i>Gabe Rudy Malik Murtaza Khan Mary Hall Chun Chen Jacqueline Chame</i> <i>23rd international conference on Languages and compilers for parallel computing, res.country(233,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.5555/1964536.1964546	2010
<b>Loop transformation recipes for code generation and auto-tuning</b> <i>Mary Hall Jacqueline Chame Chun Chen Jaewook Shin Gabe Rudy Malik Murtaza Khan</i> <i>International Workshop on Languages and Compilers for Parallel Computing LCPC 2009, res.country(233,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1007/978-3-642-13374-9_4	2009
<b>RBP: robust broadcast propagation in wireless networks</b> <i>Fred Stann John Heidemann Rajesh Shroff Muhammad Zaki Murtaza</i> <i>Proceedings of the 4th international conference on Embedded networked sensor systems, res.country(233,)</i> <b>Citations:</b> N/A <b>DOI:</b> 10.1145/1182807.1182817	2006