



Dr. Syed Muhammad Sheraz

Assistant Professor (Software Engineering)

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EDUCATION

- 2024** **Ph.D.**, Computer Systems Engineering, **NED University of Engineering & Technology**, Karachi, Pakistan.
Thesis: Energy Efficient and Performance Optimized Design for Data Centers
- 2010** **M. Engg.**, Computer Systems Engineering, **NED University of Engineering and Technology**, Karachi, Pakistan. (Specialization: Computer Networks & Performance Evaluation)
- 2007** **BE**, Computer & Information Systems Engineering, **NED University of Engineering and Technology**, Karachi, Pakistan.

ACADEMIC PROFILE

NED University of Engineering & Technology Department of Software Engineering

- **Assistant Professor – ADHOC** (April 2024 till date)
- **Lecturer** (November 2018 to April 2024)

NON-ACADEMIC PROFILE

NED University of Engineering & Technology High Performance Computing Center

- **IT Manager** (July 2007 to November 2018)

JOURNAL EDITOR & REVIEWER

- **Journal Reviewer** (**Cluster Computing** -The Journal of Networks, Software Tools and Applications)

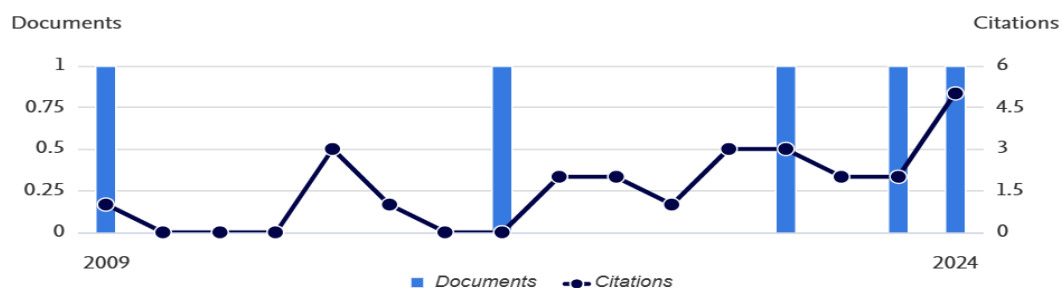
RESEARCH PUBLICATIONS

03 JCR Journal articles and 02 International Conference papers

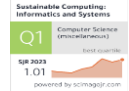


ORCID : <https://orcid.org/0000-0002-2478-2858>



Document & citation trends



<https://www.scopus.com/authid/detail.uri?authorId=35109767500>

Journal Publications			
	Publication Details	Quartile	IF
1.	S. M. Sheraz , A. Arfeen and U. Haider, A port consolidation model for data center network infrastructure energy efficiency. Sustainable Computing: Informatics and Systems . DOP: 2024-02-24 DOI: https://doi.org/10.1016/j.suscom.2024.100973		3.8
2.	S. M. Sheraz , A. Arfeen and U. Haider, Energy-Efficient Data Center Network Infrastructure With Network Switch Refresh Model. IEEE Access . DOP: 2023-05-02 DOI: https://doi.org/10.1109/ACCESS.2023.3272499		3.4
3.	Sheraz Syed , Asad Arfeen, Riaz Uddin, Umair Haider, An Analysis of Renewable Energy Usage by Mobile Data Network Operators. Sustainability . DOP: 2021-02-09 DOI: https://doi.org/10.3390/su13041886		3.3
Conference Publications			
4.	Ahmed, H., Ismail, M. A., Hyder, M. F., Sheraz, S. M. , & Fouq, N. (2016). Performance comparison of spark clusters configured conventionally and a cloud service. Procedia Computer Science , 82, 99-106. DOI: https://doi.org/10.1016/j.procs.2016.04.014		
5.	Sheraz, Syed Muhammad , Syed Ali Abbas, and Humera Noor. Fuzzy rule based traffic signal control system for oversaturated intersections. 2009 International Conference on Computational Intelligence and Natural Computing . Vol. 2. IEEE, 2009. DOI: 10.1109/CINC.2009.245		

EXPERIENCE DETAILS

Assistant Professor – ADHOC (Apr, 2024 till Date)

Department of Software Engineering,
NED University of Engineering & Technology,
Karachi, Pakistan.

- **ISPs (Independent Study Projects) Supervision** [SE – 5002]
 - Mental Health Insights through AI Journaling
 - Local Marketing Strategy Through NLP
- Courses taught at **Postgraduate Level**
 - Software Measurement and Metrics [SE – 504]
- Courses taught at **Undergraduate Level**
 - Computer Communication Networks [CS – 351]
 - Applied Economics for Engineers [IF – 301]
 - Fundamentals of Information Technology [CT – 174]
- **FYDP Supervision** [SE – 499]
 - Natural Language Processing Based Student Companion System (On-going)
 - SportEaze (On-going)
 - Tutor Finding System (Previous)

Lecturer (Nov, 2018 - Apr, 2024)

Department of Software Engineering,
NED University of Engineering & Technology,
Karachi, Pakistan.

- Courses taught at **Undergraduate Level**
 - Discrete Structures [CT – 162]
 - Microprocessors and Their Applications [CS - 353]
 - Parallel Processing [CS - 451]

- Computer Communication Networks [CS - 351]
- Software Construction and Development [SE - 312]
- Network and Information Security [CT – 460]

Administrative Tasks in the Department

- **Area Coordinator** (March 2024 till date)
- **Member, OBE Team** (March 2025 till date)
- **Member, Course Review Committee** (March 2025 till date)
- **Internship Coordinator** (February 2023 till date)
- **Member, Duty Society** (January 2024 - For 3 Years)
- **Member, Final Year Design Project (FYDP) Committee** (September 2024 till date)
- **Member, M. Engg. Admission Committee**

IT Manager (July, 2007 to Nov, 2018)

High Performance Computing Centre,
NED University of Engineering & Technology,
Karachi, Pakistan.

RESPONSIBILITIES

- Management of multiple Beowulf Clusters of different OS like Ubuntu, Debian, Redhat, and Fedora etc.
- Performed system administration of Windows Active Directory and Group Policies.
- Deployment and Management of Virtualization Solutions using VMware, Microsoft, Hyper V, KVM etc.
- Responsible for managing more than 50 licensed software, installation, troubleshooting the issues, their maintenance and updates.
- Troubleshooting network problems, providing solutions for removing bugs from systems.
- Successful installation of Linux through Kickstart Configuration.
- Implementation of Open-LDAP Client Server.
- Deployment and Management of Linux from Scratch (LFS) systems.
- Deployment of Cloud using OpenStack in the department. Deployment of Controller, Compute, Network, block nodes, proxy and storage nodes. Launching different instances. Monitoring of instances. Security hardening of the deployed cloud.
- Programming Languages & Platforms
 - Shell Scripting
 - Windows 2003 Server, Red Hat Linux, SUSE Linux, Win XP, Windows Vista, Windows 7, Windows 10
- Other Tools
 - VMWare Virtualization Tools, IBM Content Manager Enterprise, IBM Content Manager Ondemand
- Software:
 - MS SQL Server, MS Office, MATLAB

HONOURS & ACTIVITIES

- **Secretary (Sindh Region) - Cloud Security Alliance Pakistan Chapter** (August 2021 till date)
 - Organization of CSA PAKISTAN SUMMIT 2021
 - Cloud Adoption in Pakistan
- **4th International Conference on Innovations in Computer Science (ICONICS'24)**
 - Member, Technical Program Committee

- **3rd International Conference on Innovations in Computer Science & Software Engineering (ICONICS-2022)**
 - Member, Technical Program Committee
- **2nd International Conference on Innovations in Computer Science & Software Engineering (ICONICS-2018)**
 - Member, Organizing Committee

TRAININGS ATTENDED

- Development of SAR as per HEC Guidelines
- Quality Management System
- STEM Education Training
- Workshop on Course Design
- Koha Open-Source Software
- Teaching Case Studies
- Internship Portal Guideline Session for Summer Internship 2023 (Ramzan Break)
- Training on AIS
- Teaching Pedagogy
- OBE System Framework
- Online Evaluation & Assessment of Students
- Management of Online Classes (Operation + Security)
- NED LMS Training Session
- Importance of Feedback Analysis