Dr Zia ur Rehman

Contact Information
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EXPERIENCE SUMMARY

I have 10 years of teaching experience for the subjects of Computer Sciences, and developed techniques so that students can have better understandability and show interest towards the lecture. I have proven the ability to communicate effectively with all levels of management. I am a detail oriented and committed to delivering superior quality work.

Education

- **PhD(CS)**, PMAS – Arid Agriculture University, Rawalpindi, Pakistan, Oct. 2017 – Mar 2023, Thesis titled "Secure Key Authentication Scheme for Cyber Physical System".
- **MS(CS)**, **18th Year of Education**, Muhammad Ali Jinnah University, Islamabad, Pakistan, 2007.
- Studied **Subject Credit Hours to complete 16th year of education**, Muhammad Ali Jinnah University, Islamabad, Pakistan, 2004.
- **BCS(3 yr),** Allama Iqbal Open University, Islamabad, Pakistan, 2003.
- **Fsc (Pre-Eng.) ,** Rawalpindi Board, 1999.
- **Matric(Science)**, Rawalpindi Board, 1997.

Publications (ORCID: https://orcid.org/0000-0003-0108-6443),

(Google Scholar: https://scholar.google.com/citations?hl=en&user=NpcrcJ0AAAAJ)

- F. M. Riaz, S. Ahmad, J. A. Khan, S. Altaf, Z. U. Rehman and S. K. Memon, "**Numerical Treatment of Non-Linear System for Latently Infected CD4+T Cells: A Swarm- Optimized Neural Network Approach**," in IEEE Access, vol. 12, pp. 103119-103132, 2024

- M. Haroon, S. Altaf, Z. ur Rehman, M. W. Soomro, and S. Iqbal, "**Human hand gesture identification framework using SIFT and knowledge-level technique**," *Etri J. Wiley*, 2022.

- S. Altaf, M. Haroon, S. Ahmad, E.A Nasr, M. Zaindin, S. Huda & Z. u. Rehman "**Radio-Frequency-Identification-Based 3D Human Pose Estimation Using KnowledgeLevel Technique**," *Electronics*, vol. 12, no. 2, p. 374, 2023.

- S. Ahmad, Z. ur Rehman *et al.*, "**Dynamic Key Extraction Technique Using Pulse Signal and Lightweight Cryptographic Authentication Scheme for WBAN**," *Sustainability*, vol. 14, no. 21, p. 14625, 2022.
- Z. Rehman, S. Altaf, S. Ahmad, M. Alqahtani, and S. Huda, "**Advanced Authentication Scheme with Bio-Key Using Artificial Neural Network**," *Sustainability*, vol. 14, no. 7, p. 3950, 2022.

- Z. ur Rehman, S. Altaf, S. Ahmed, S. Huda, A. M. Al-Shayea, and S. Iqbal, "**An Efficient, Hybrid Authentication using ECG and Lightweight Cryptographic Scheme for WBAN**," *IEEE Access*, vol. 9, pp. 133809–133819, 2021.

- Z. ur Rehman, S. Altaf, and S. Iqbal, **"An Efficient Lightweight Key Agreement and Authentication Scheme for WBAN"**. *IEEE Access,* vol. 8, pp. 175385–175397*, 2020.* Category- W, IF- 3.745.

- **Authentication Schemes in Medical Cyber-Physical System,** Book Chapter, *Status: published*, in Information Security Handbook by CRC Press, Taylor & Francis Group, Aug.,2020.

- **Authentication Schemes in Cyber Physical System: A Secured Approach towards Future Emergency Management System,** *Abstract Presentation***,** Regional Workshop on ICT Role for Disaster Prediction & Management, PMAS-Arid Agriculture University, Rawalpindi on May 4, 2019.

- **Survey of Authentication Schemes in Health Monitoring: A Subset of Cyber Physical System**, at International Bhurban Conference on Applied Sciences & Technology (IBCAST), Islamabad, organized by IEEE on Jan. 9, 2019.

Subjects can Teach

- Computer Networks, Databases, Data Structures, Advanced Analysis of Algorithm, Information Security, Advanced Information Security, Cyber Security.

CAREER ACCOMPLISHMENTS

Teaching Experience
- **Assistant Professor (Computer Science),** from Sept 2023 to-date, in National University of Modern Languages (NUML), Islamabad, Pakistan.
- **Lecturer (Computer Science),** from Feb 2017 to Aug 2023, in National University of Modern Languages (NUML), Islamabad, Pakistan.
- **Lecturer (Computer Science),** (Visiting Faculty), from Sept., 2013 to till date, in University of Central Punjab, Rawalpindi Campus, Pakistan**.**
- **Lecturer (Computer Science)**, (Visiting Faculty), from Sept. 2015 – to June, 2017 in PMAS – Arid Agriculture University Rawalpindi, Pakistan.

Research Coordinator
- Serving as Research Coordinator (**since Feb 2024 till now**) for MSCS and PhD scholars, facilitating research planning, proposal development, and thesis supervision across interdisciplinary domains in Computer Science. Played a key role in enhancing research quality and aligning scholarly work by actively supervising research thesis in emerging trends in information security, AI, and applied computing.

Technical Profile

Database / Data Analysis: Oracle 8.x, 9i, 10g, MySQL, SQL Server Ms Access, Matlab, WEKA, Python, AVISPA
GUI: oracle 9i Application server, Oracle Developer (Forms 6.0, Reports 6.0)
Languages: PL/SQL, SQL, SQL*Plus, Java, VB 6.0, ASP, PHP.

Personal Information

Nationality:	Pakistani
D.O.B:	12/01/1982
Gender:	Male
Marital Status:	Married