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| **Dr. Sadiq Akbar**  (Assistant Professor) | | A person with a beard  Description automatically generated with medium confidence  My Univ Profile Picture |
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| Email | [sadiqakbar@uop.edu.pk](mailto:sadiqakbar@uop.edu.pk) |
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**ACADEMIC QUALIFICATION**

* **University of Peshawar, KP, Pakistan** (2010-2018)

**Ph.D.** (Electronics)

Parameter Estimation of Electromagnetic Plane

Waves using Novel Adaptive Metaheuristic

Techniques

* **Gandhara University Peshawar, Pakistan** (2008-2010)

**MS** (Telecommunication & Networking)

* **University of Peshawar, KP, Pakistan** (1996-1998)

**M.Sc.** (Electronics)

**TRAINING AND CERTIFICATION**

* Master Class on MATLAB SIMULINK (Pantech Prolabs India Pvt Ltd )
* Master Class on Power Electronics using MATLAB (Pantech Prolabs India Pvt Ltd)
* Research and Proposal writing (PUTA)
* Finance and Audit (CHRCD)
* Regional Training Workshop for Electronics Teachers (University of Peshawar)
* Project Cycle Management and Logical Framework Approach (Asia Link)
* Staff Development Course (Higher Education Commission, Pakistan)
* Research Methodology, Endnotes and Statistical Software in Research (PUTA)
* Microcontroller based Trainer (RIMS)

**DISTINCTIONS**

* 1st PhD degree got from department of Electronics
* 3rd Position holder in MS Telecommunication & Networking
* 2nd Position holder in M.Sc. Electronics
* 3rd position holder in B.Sc. Electronics in whole KP

**EMPLOYMENT HISTORY**

**University of Peshawar Peshawar KP**

Assistant Professor (Full Time Teaching and Research) **2010-till date**

Lecturer (Full Time Teaching and Research) **2000-2010**

**VISITING TEACHING**

* Department of Physics, University of Peshawar, KP, Pakistan
* Department of Economics, University of Peshawar, KP, Pakistan
* Department of Computer Science, University of Peshawar, KP, Pakistan
* Department of IMS, University of Peshawar, KP, Pakistan
* NCE in Physical Chemistry, University of Peshawar
* Department of Computer Science, Preston University, Peshawar
* Department of Physics, Frontier Women University, Peshawar

JOURNALS PUBLICATIONS:

1. **S. Akbar**, M. A. Z. Raja, N. I. Chaudhary, F. Zaman, and H. Alquhayz, “Flower pollination heuristics for parameter estimation of electromagnetic plane waves,” *Comput. Mater. Contin.*, vol. 68, no. 2, pp. 2529–2543, 2021, doi: 10.32604/cmc.2021.016097.

2. N. Gul, I. M. Qureshi, M. S. Khan, A. Elahi, and **S. Akbar**, “Differential Evolution Based Reliable Cooperative Spectrum Sensing in the Presence of Malicious Users,” *Wirel. Pers. Commun.*, vol. 114, no. 1, pp. 123–147, 2020, doi: 10.1007/s11277-020-07354-7.

3. S. Uddin *et al.*, “Structural investigation and improvement of microwave dielectric properties in ca1-xbaxtio3, low loss ceramics,” *J. Ceram. Process. Res.*, vol. 21, no. 6, pp. 745–750, 2020, doi: 10.36410/jcpr.2020.21.6.745.

4. F. Zaman, A. Hassan, **S. Akbar**, A. ur Rehman, and M. A. Z. Raja, “Novel Computational Heuristics for Wireless Parameters Estimation in Bistatic Radar systems,” *Wirel. Pers. Commun.*, vol. 111, no. 2, pp. 909–927, 2020, doi: 10.1007/s11277-019-06892-z.

5. **S. Akbar**, F. Zaman, M. Asif, A. U. Rehman, and M. A. Z. Raja, “Novel application of FO-DPSO for 2-D parameter estimation of electromagnetic plane waves,” *Neural Comput. Appl.*, vol. 31, no. 8, pp. 3681–3690, 2019, doi: 10.1007/s00521-017-3318-8.

6. N. Gul, I. M. Qureshi, **S. Akbar**, M. Kamran, and I. Rasool, “One-to-Many Relationship Based Kullback Leibler Divergence against Malicious Users in Cooperative Spectrum Sensing,” *Wirel. Commun. Mob. Comput.*, vol. 2018, 2018, doi: 10.1155/2018/3153915.

7. **S. Akbar**, M. A. Z. Raja, N. I. Chaudhary, F. Zaman, and H. Alquhayz, “Flower pollination heuristics for parameter estimation of electromagnetic plane waves,” *Comput. Mater. Contin.*, vol. 68, no. 2, pp. 2529–2543, 2021, doi: 10.32604/cmc.2021.016097.

CONFERENCE PUBLICATIONS:

1. M. Kamran, S. U. Khan, R. Ullah, and **S. Akbar**, “An FPGA Implementation of PWM for DC-

DC SEPIC Converter for Wireless Sensor Network,” *1st Int. Conf. Electr. Commun. Comput.*

*Eng. ICECCE 2019*, no. July, pp. 1–6, 2019, doi: 10.1109/ICECCE47252.2019.8940780.

**AREA OF RESEARCH INTEREST**

Parameter Estimation, System Identification, Evolutionary Computing, Swarm

Intelligence and Optimization Methods

**TECHNICAL SKILLS AND INTEREST**

* Knowledge developing and debugging in C/C++, MATLAB
* Interested in solving research problems using adaptive metaheuristic optimization techniques
* Involved in Signal Processing, Array Signal Processing, Control System Engineering
* Designing and implementing metaheuristic algorithms in MATLAB
* Involved in DOA and DOD estimation in MIMO technology
* Involved in designing PID controllers
* Knowledge developing in Embedded System Design and IoT

**ADMINISTRATIVE EXPERIENCE**

* Remained Staff Proctor University of Peshawar
* Remained Senior warden, Hostel Block A, University of Peshawar
* Remained Full warden, Hostel Block A, University of Peshawar
* Remained Full resident warden, Allama Iqbal Hostel, University of Peshawar
* Remained Assistant warden, Allama Iqbal Hostel, University of Peshawar

**REFERENCES**

References can be provided if required