CURRICULUM VITAE

Sarmad Kadhim Alkhfaji, B.S., M.S.E., Ph.D.

Discipline of Biomedical Engineering

Iraq, Thi-Qar, Nasiriyah, University of Thi-Qar, Department of Computer Sceince,
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Machine Learning, and Computer Communication Research

- Thorough experience in MATLAB, C++, Python softwares used for data analysis.
- Advanced scientific research and analysis skills including data analysis using statistical approaches.
- Designing and developing model for antenna signals processing.
- Antenna array applications.
- Application of machine learning to analysis medical data.

Colleges and Universities Attended

2014-2018 PhD in Antenna signals processing, Computer science, Department of software engineering, Voronezh state university, Russia.

2008-2010 M.S.E. in Computer science, Department of software engineering, University Utara Malaysia

2003-2007 Undergraduate study in computer science, Department of Computer Science University of Thi-Qar, Iraq.

PROFESSIONAL EXPERIENCE

1. Lecturer appointment at Thi-Qar university 10/1/2008
2. Main areas of research are Antenna signals processing.
3. Data communication and computer network.
4. Supervising Higher Degree Research students.

Teaching Experience

2011-2012 Teaching Assistant for seminar data communication, University of Thi-Qar, Iraq.

2012-2013 Teaching Assistant for seminar logic design, University of Thi-Qar, Iraq.

2018-2019 Teaching data communication, University of Thi-qar, Iraq.

2020-2021 Teaching, data communication, Master students, University of Thi-qar, Iraq.

SUPERVISION

I have supervised master stuent; details are given below:

- Sarab, Qualification: Mater, Thesis title: Machine learning based Approach for Parkinson disease detection.
- Russel, Qualification, Master, Thesis title: ECG signals classification using multi-domain features.

PUBLICATIONS

1. Allmuttar, A.Y. and Alkhafaji, S.K., 2023. Using data mining techniques deep analysis and theoretical investigation of COVID-19 pandemic. Measurement: Sensors, 27, p.100747
2. Ameen Azeez, R., Alkhafaji, S.K., Diyk, M. and Abdulla, S., 2022, October. ECG Signals Classification Model Based on Frequency Domain Features Coupled with Least Square Support Vector Machine (LS-SVM). In International Conference on Health Information Science (pp. 303-312). Cham: Springer Nature Switzerland.
3. Majeed, R.R. and Alkhafaji, S.K., 2023. ECG classification system based on multi-domain features approach coupled with least square support vector machine (LS-SVM). Computer Methods in Biomechanics and Biomedical Engineering, 26(5), pp.540-547.
4. Alkhafaji, S.K., 2019, July. Evaluation of the influence of directivity factor of directive elements of conformal and planar antenna arrays on the performances

of azimuth-elevation DOA estimation. In Journal of Physics: Conference Series (Vol. 1279, No. 1, p. 012024). IOP Publishing.

5. Nechaev, Y.B., Sarmad, K.A. and Peshkov, I.W., 2017, March. Evaluating expectation-maximization algorithm for 2D DOA estimation via planar antenna arrays. In Proceedings of the International Conference on High Performance Compilation, Computing and Communications (pp. 126-130).
6. Alkhafaji, S.K. and Oudah, A.Y., 2022, June. Probability of False Peaks Circular and Concentric Array Antennas Direction. In 2022 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA) (pp. 1-5). IEEE.