Asst. Prof. Dr. Raid Luaibi Lafta

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PROFESSIONAL SUMMARY

Researcher in the predictive data mining of medical time series data, with publications in high-ranking (Q1) journals. His work covers intelligent recommendation systems for patients with chronic diseases, telehealth environments and the analysis of EEG signals.

EDUCATION

Ph.D.	Faculty of Health, Engineering and Sciences, University of Southern Queensland, Australia
2010	M.Sc. in Information Technology, Voronezh State University, Russia
2002	B.Sc. in Computer Science, University of Thi-Qar, Iraq

EMPLOYMENT

2026 – present	Assistant Dean for Scientific Affairs, College of Engineering, University of Shatrah (since 1 September 2026)
2023 – 2026	Head of the Department of Computer Engineering, University of Shatrah (6 October 2023 – 1 September 2026)
2019 – 2023	Head of the Studies and Planning Department
2010 – 2013	Lecturer, University of Thi-Qar
2003 – 2007	Assistant Lecturer (computer laboratory), University of Thi-Qar

RESEARCH EXPERIENCE

Medical time series data (predictive data mining), 2014 – present

- Collecting medical time series data from patients.
- Analysing the data with decomposition methods such as the Fast Fourier Transform.
- Extracting statistical features from these methods.
- Using predictive classifiers to give patients accurate recommendations.

SKILLS

- Analysis of time series data, including frequency-domain techniques.
- Building predictive models that give accurate and reliable recommendations to patients with chronic diseases.
- Software: C++, MATLAB and LaTeX.

PUBLICATIONS AND CONFERENCES

- More than 10 papers, including papers in high-ranking (Q1) journals.
- More than 5 international conferences in Germany, Singapore, South Korea, Australia and Japan.

Selected publications

1. Coupling a dual tree-complex wavelet transform with K-means to clustering the epileptic seizures in EEG signals. *Mesopotamian Journal of Big Data*, 2025. doi:10.58496/mjbd/2025/005
2. Classification of epileptic based on fast Fourier transform and ensemble model. *AIP Conference Proceedings*, 2024. doi:10.1063/5.0191753
3. EEG and fractal dimension for epileptic seizures detection. *Al-Sadiq International Conference on Communication and Information Technology (AICCIT)*, 2023. doi:10.1109/AICCIT57614.2023.10218011
4. Fast Fourier transform and ensemble model to classify epileptic EEG signals. *IEEE International Conference on Big Data*, 2022. doi:10.1109/BigData55660.2022.10020818
5. Clustering similar time series data for the prediction the patients with heart disease. *Indonesian Journal of Electrical Engineering and Computer Science*, 2022. doi:10.11591/ijeecs.v26.i2.pp947-954
6. Sleep EEG signal analysis based on correlation graph similarity coupled with an ensemble extreme machine learning algorithm. *Expert Systems with Applications*, 2019. doi:10.1016/j.eswa.2019.07.007
7. A general extensible learning approach for multi-disease recommendations in a telehealth environment. *Pattern Recognition Letters*, 2018. doi:10.1016/j.patrec.2018.11.006
8. Coupling a fast Fourier transformation with a machine learning ensemble model to support recommendations for heart disease patients in a telehealth environment. *IEEE Access*, 2017. doi:10.1109/ACCESS.2017.2706318
9. An intelligent recommender system based on predictive analysis in telehealthcare environment. *Web Intelligence*, 2016. doi:10.3233/WEB-160348

RESEARCH PROFILES

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