

Curriculum Vitae

Dr. Sirwan Abdolwahed Aula

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Country: Iraq

Keywords: Optimisation Algorithms, Data Mining, Machine Learning



Biography

Dr. Sirwan Abdolwahed Aula specializes in computer science and database systems. He holds a PhD in Computer Science, an MSc in Database Professionals from Sheffield Hallam University, and a BSc in Computer Science from Salahaddin University. He has extensive experience in teaching, research, and academic administration, including serving as Vice Dean of the Faculty of Science at Soran University. His research interests include optimization algorithms, data mining, and machine learning. With strong proficiency in programming, database systems, and modern software tools, he actively contributes to research, curriculum development, and academic services.

Academic Qualifications

- PhD in Computer Science (2020–2025), Soran University, Iraq
- MSc in Database Professionals (2012–2014), Sheffield Hallam University, UK
- BSc in Computer Science (2004–2008), Salahaddin University, Iraq

Professional Experience

Soran University, Soran, Iraq

Lecturer, Department of Computer Science (2009–Present)

Courses Taught:

- Mobile Development
- Web Development (HTML, CSS, PHP, JavaScript)
- Database Management (MySQL, SQL Server, Oracle)
- Programming (C, C++, Java, Python)
- Object-Oriented Programming (OOP)
- System Analysis
- Software Engineering
- Data Mining
- Visual Programming (Visual Basic, C#)
- Multimedia
- Cloud Computing

Additional Roles:

- Supervised student projects
- Developed modern course materials
- Vice Dean of the Faculty of Science
- Head of the Department of Computer Science

Research Contributions

- FOX-TSA Hybrid Algorithm: Advancing for Superior Predictive Accuracy in Tourism-Driven Multi-Layer Perceptron Models
Systems and Soft Computing, 2024

DOI: <https://doi.org/10.1016/j.sasc.2024.200178>

- FOX-TSA: Navigating Complex Search Spaces and Superior Performance in Benchmark and Real-World Optimization Problems

Ain Shams Engineering Journal, 2024

DOI: <https://doi.org/10.1016/j.asej.2024.103185>

- Foxtsage vs. Adam: Revolution or Evolution in Optimization?

arXiv Preprint, 2024

DOI: <https://doi.org/10.48550/arXiv.2412.17855>

- Foxtsage with SGD for Neural Network Training: A Comparative Study Against Adam on Benchmark Datasets

Cognitive Systems Research, 2025

DOI: <https://doi.org/10.1016/j.cogsys.2025.101373>

- From Dialect Gaps to Identity Maps: Tackling Variability in Speaker Verification

arXiv Preprint, 2025

DOI: <https://doi.org/10.48550/arXiv.2505.04629>

- A Novel Facial Recognition Technique Focusing on Masked Faces

Ain Shams Engineering Journal, 2025

DOI: <https://doi.org/10.1016/j.asej.2025.103350>

Peer Review Activity

Recognized Reviewer – Systems and Soft Computing (Elsevier)

Total Reviews Completed: 50+

Awarded “Recognized Reviewer Certificate” for consistent contributions to the peer-review process.

Selected Reviews:

- - Impact Mechanism of ESG Ratings on Corporate Financing Costs from the Perspective of Hybrid Machine Learning Models (5 June, 24 May, 5 May, 5 April 2025)
- - Evaluation of Optimization Algorithm for Application Placement Problem in Fog Computing (5 May 2025)

- - Risk Assessment of Corporate Financial Internal Control and Audit Matters: Data Mining (28 March 2025)
- - Basketball Teaching Methods Based on 3D-Convolutional Neural Network (24 March, 26 January 2025)
- - Design of Multiple Recommendation Patterns for E-commerce (23 February, 1 November 2024)
- - MapReduce-Based Data Mining Algorithm in Consumer Behavior Prediction (22 January 2025)
- - Predicting Students' Grades Using Machine Learning (16 November 2024)
- - Personalized Learning with Swarm Intelligence (16 November 2024)
- - Emotion Analysis on Social Media using Deep Learning (3 November 2024)

Funding

- HCDP Scholarship, Ministry of Higher Education and Scientific Research, Kurdistan Region

Language Skills

- Kurdish – Native
- English – Advanced (CEFR C1) – Imperial English UK (Certificate No. 2835215, Issued 03-09-2025)
- Arabic – Intermediate
- Persian – Basic

Technical Skills

Programming Languages: C, C++, Java, Python, PHP

Database Systems: MySQL, SQL Server, Oracle

Web Technologies: HTML, CSS, JavaScript

Other Tools: MS Office, Visual Studio, Visual Basic, Adobe Photoshop

Researcher Profiles

ORCID iD: <https://orcid.org/0009-0001-5665-3524>

Web of Science ResearcherID: LVS-7431-2024

Scopus Author ID: <https://www.scopus.com/authid/detail.uri?authorId=59423664300>

ResearchGate: <https://www.researchgate.net/profile/Sirwan-Aula>

Google Scholar <https://scholar.google.com/citations?user=BT9czTwAAAAJ&hl=en>