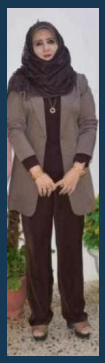

Samaher Hussein Ali Al-Janabi

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Lecturer

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EDUCATION

(03-03-2012) دكتوراه
Artificial Intelligence/ Intelligent data analysis / Smart System
University of Babylon

RESEARCH METRICS

h-index (Scopus)	29
h-index (GS)	31
Citations (Scopus)	2451
Citations (GS)	6105
Documents (Scopus)	79
Documents (GS)	129

PROFILE

Samaher Al-Janabi received her BSc, MSc and PhD degrees in Computer Science from Science College, University of Babylon, Iraq. Through her years of study, she specialized in the design, implementation, performance of measurement and intelligent analysis of huge/bigdata, databases. She is a Lecturer in the Departments of Software, Computer and Information Network respectively. Her research interests span topics concerning Intelligent Data Analysis, Knowledge Discovery in Databases, Soft Computing Techniques and Applications, Data & Graph Mining Techniques (i.e., Clustering, classification, Predication, Optimization and association Rules), Cooperative Computing (cluster, Grid, and Cloud), Internet of things, Mobile Services & Applications. She has published well over Sixty-Nine scientific papers and authored three books; one on new trends of KDD toward intelligent data analysis, and one book on soft computing techniques, while, the third intelligent miner of a huge medical database. She has to get a Patent in 2018 for her' research under the title" Smart System to Create Optimal Higher Education Environment in Iraq using IDA and IOTs" .and the other patent for research under the title "A novel method to design smart station to Prediction the concentrations of air pollution (PM2.5, PM10, NO2, CO, O3, SO2) based on intelligent big data analysis" in 2021. While the third patent for your researcher under the title "An Innovative Model of (UAV-FTMP) captures the Signals of Smart Watches and Smartphones to Finding and Tracking of Missing Persons in Specific Area based on Intelligent Data Analysis and Global Positioning System" in 2021. She is one of four persons on the ACM-W Rising Star Award Selection Committee for the years 2020, 2021 and 2022. also; she gets Honorary Doctorate in the field of Renewable Energy, from Dellford University, United State of America, DR3626, September 2022. She is Top 2% of Scientists in the world in 2022 based on classify of Stanford University, October 2022. She gets the Excellence Award for Arab Women in the Field of Technology and Innovation 2022; Top 2% Scientists in the World 2023 based on classify of Stanford University, October 2023; She gets Award for the best scientific production in leadership and innovation, 2024; She gets Award for the best scientific production in technology and digital transformation; 2024; She is a reviewer of several local and international journals. For more details see Samaher Al-Janabi Certificates

Awards

L'Oreal–Unesco For Women In Science Levant And Egypt Regional Fellowships2014

International Creative Wissam, 2018

Shield of Creativity and Excellence, Nov 2018

Top reviewers in Cross-Field - September 2019

Top reviewers in Computer Science (Top 1% of reviewers in Computer Science on Publons global reviewer database)- September 2019

Academic Excellence Shield. May 2021

Honorary Doctorate in the field of Renewable Energy, Dellford University, United State of America, DR3626, September 2022

Top 2% Scientists in the World 2022 based on classify of Stanford University, October 2022

Excellence Award for Arab Women in the Field of Technology and Innovation 2022

Top 2% Scientists in the World 2023 based on classify of Stanford University, October 2023

Award for the best scientific production in leadership and innovation, 2024

Award for the best scientific production in technology and digital transformation; 2024

Top 2% Scientists in the World 2024 based on classify of Stanford University, September 2024

Patents

Smart System to Create Optimal Higher Education Environment in Iraq Using IDA and IOTs. 2018

A Novel Method to Design Smart Stations to Prediction and Control Concentrations of Air Pollution (PM2.5, PM10, NO2, CO, O3, SO2) Based on Intelligent Big Data Analysis

An Innovative Model of (UAV-FTMP) captures the Signals of Smart Watches and Smartphones to Finding and Tracking of Missing Persons in Specific Areas based on Intelligent Data Analysis and Global Positioning System

Developed Electronic Sterilization System (S- Vehicle) Managed Remotely for Epidemic Areas by Virus Covid-19 Using an innovative vehicle March by smartphones [under evaluation]

Smart Micro-Grid Model to Generated Renewable Energy Based on Embedded Intelligent and FPGA [under evaluation]

ACADEMIC TITLES

2020-06-01	Professor
2015-05-29	Associate Professor
2012-05-29	Lecturer

PUBLICATIONS (230)

1. From Centralized Grids to Intelligent Energy Ecosystems: A Privacy-Preserving Federated Reinforcement Learning Architecture for Autonomous Renewable Energy Forecasting and ...
   2026
2. An Adaptive, Physics-Guided Federated Multi-Agent Reinforcement Learning Framework for Proactive Air Pollution Mitigation
   2026
3. Pragmatic Fields of Artificial Intelligence (AI) and Artificial General Intelligence(AGI): A Comparative Analysis
   2026
4. Whispers of the Wind: An Enhanced MLDD Model with Attention and Multi-Objective Optimization (MOGWO-PCA-GRU-Attention) for Ultra-Accurate Wind Power Forecasting
   International Journal of Computational Intelligence Systems, 2026 | 2026

5. **Intelligent Grid Autonomy: A Federated Reinforcement Learning Approach for Privacy-Preserving Solar Energy Management**
   2025

6. **A Self-Adapting Climate-Resilient Model for Multi-Objective Optimization of Water, Food, and Energy Nexus Using Hybrid XLSTM and Evolutionary Algorithms**
   2025

7. **IMIA-Net: A Cutting-Edge Framework for Multimodal Medical Image Fusion Combining Discrete Wavelet Transform and Context-Aware Attention for Precision Diagnostics**
   Journal: Biomedical Signal Processing and Control, 2025 | 2025

8. **Predicting the Impact of Climate Change on Food Security Using Explainable Artificial Intelligence (XAI)**
   2025

9. **Federated Learning Framework for Predictive Modelling and Surplus Energy Management in Distributed Renewable Energy Systems**
   2025

10. **Robust OGSK-DeLT: Maximizing Green Energy Generation and Return from the Solar Plant**
    Soft Computing, 2025 | 2025

11. **Optimizing UAV performance with IoT and fuzzy linear fractional transportation models**
    Results in Engineering 24, 103306, 2024 | 2024 | Cited: 10

12. **An intelligent returned energy model of cell and grid using a gain sharing knowledge enhanced long short-term memory neural network.**
    Journal of Supercomputing 80 (5), 2024 | 2024 | Cited: 23

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    International Journal of Information Technology, 2024 | 2024

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    Discover Artificial Intelligence 4 (1), 16, 2024 | 2024 | Cited: 9

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19. **Sustainable Energy: Advancing Wind Power Forecasting with Grey Wolf Optimization and GRU Models**
    Results in Engineering, 102930, 2024 | 2024 | Cited: 33

20. **Uniting Optimization and Deep Learning for Complex Problem Solving: A Comprehensive**
    Intelligent Systems Design and Applications: Industrial Applications, Volume ..., 2024 | 2024 | Cited: 2

21. **13 AI Technique from Type CN2**
    Concepts of Artificial Intelligence and its Application in Modern Healthcare ..., 2023 | 2023

22. **Intelligent deep analysis of DNA sequences based on FFGM to enhancement the performance and reduce the computation**
    Egyptian Informatics Journal 24 (2), 173-190, 2023 | 2023 | Cited: 19

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2021

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Soft Computing, 1-15, 2020 | 2020 | Cited: 169

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Soft Computing, 1-20, 2020 | 2020 | Cited: 156

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96. **Pragmatic Method Based on Intelligent Big Data Analytics to Prediction Air Pollution**
Springer :Big Data and Networks Technologies. Lecture Notes in Networks and ..., 2019 | 2019 | Cited: 21

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MIT press 1, 23-24, 2017 | 2017 | Cited: 2795

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2017

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the 3rd International Congress on Technology, Communication and Knowledge ..., 2017 | 2017

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