



Saif Hameed Abbood Khaleefa Alwaeli

سيف حميد عبود خليفة الوائلي

Lecturer

PROFILE

Dr. Saif Hameed Abbood Alwaeli is an Instructor at the Department of Cybersecurity, College of Computer Science and Information Technology, Wasit University. He holds a Ph.D. in Artificial Intelligence from School of Engineering, Faculty of Computing, University Technology of Malaysia, and is actively engaged in academic teaching and scientific research in advanced computing technologies.

Dr. Alwaeli's research interests encompass a broad range of emerging fields, including Artificial Intelligence, Explainable Artificial Intelligence (XAI), Deep Learning, Neural Networks, Internet of Things (IoT), AI in Cybersecurity, Machine Learning, Intelligent Systems, and Quantum Computing. His work focuses on developing intelligent, transparent, and efficient AI-driven solutions capable of addressing complex real-world challenges across multidisciplinary domains especially in medicine.

He has contributed to several research activities related to intelligent data analysis, predictive modeling, and AI applications, with particular interest in enhancing model interpretability, optimization techniques, and next-generation computational paradigms. Dr. Alwaeli is also dedicated to bridging theoretical research with practical implementations through innovative approaches in smart technologies and intelligent computing systems.

In addition to his research contributions, Dr. Alwaeli is actively involved in teaching undergraduate and postgraduate courses, supervising student projects, and supporting academic initiatives that advance knowledge in artificial intelligence and computer science. His academic vision centers on promoting impactful research, fostering innovation, and contributing to the advancement of AI technologies in both academia and industry.

ACADEMIC TITLES

2025-02-11 Lecturer

TEACHING EXPERIENCE

Lecturer
College of Education and Pure Science
2017-01 - 2019-10

COURSES

- Data Structures
- Software Engineering

ADMINISTRATIVE POSITIONS

2024-06-01 - 2025-07-16 Graduate Studies Division
2020-06-01 - Present Cybersecurity Department Coordinator

INTERNATIONAL MEMBERSHIPS

CONTACT

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EDUCATION

Doctorate (2024-02-01)
Artificial Intelligence
University Technology of Malaysia

Master's Degree (2017-09-01)
Information Systems
Osmania University

RESEARCH METRICS

h-index (Scopus)	5
h-index (GS)	5
Citations (Scopus)	272
Citations (GS)	309
Documents (Scopus)	9
Documents (GS)	13

RESEARCH INTERESTS

- Artificial intelligence
- Medical artificial intelligence
- Quantum computing
- Explainable AI
- Deep learning
- Neural network and graph neural network



- IEEE
- IEEE computer society
- IEEE Computational Intelligence Society (CIS)

P U B L I C A T I O N S (1 5)

1. **ConformIDS: Adaptive Conformal Prediction for Uncertainty-aware Intrusion Detection in Internet of Medical Things Networks**
International Journal of Intelligent Engineering and Systems | 2026
2. **Lightweight Ephemeral Hash-Chain Authentication for Secure Power-Constrained Medical IoT Devices**
International Journal of Robotics and Control Systems 6 (4), 2026 | 2026
3. **Explanation-level Robustness for Temporal Deep Learning Under Distribution**
International Journal of Intelligent Engineering and Systems 19 (No.6), 2026 | 2026
4. **Leakage-Resilient Certificateless Aggregate Signature Scheme Without Tamper-Proof Devices for VANETs**
International Journal of Robotics and Control Systems 6 (4), 2026 | 2026
5. **ConformIDS: Adaptive Conformal Prediction for Uncertainty-aware Intrusion Detection in Internet of Medical Things Networks**
International Journal of Intelligent Engineering and Systems 19 (8), 2026 | 2026
6. **HierAnom-Path: Zero-Shot Rare Cancer Detection in Histopathology via Hierarchical Foundation Model Adaptation**
Computational And Systems Oncology 6 (1), 2026 | 2026
7. **DURABLE-RL: A Dynamic Uncertainty-aware Hybrid Reinforcement Learning Framework with Adaptive Buffer and Ensemble Modelling**
International Journal of Intelligent Engineering and Systems | 2025 | Cited: 5
8. **Interventional Deep Generative Models for Scalable Causal Discovery and Counterfactual Analysis**
Proceedings of the International Conference on Applied Innovations in IT ...;, 2025 | 2025
9. **AI in Medical Imaging & Diagnostics**
Wasit Journal for Pure sciences 4 (3), 35-45, 2025 | 2025 | Cited: 6
10. **A unified spectral-persistent homology framework for stable and generalizable topological deep learning**
Discover Computing 28 (1), 255, 2025 | 2025 | Cited: 5
11. **Hybrid retinal image enhancement algorithm for diabetic retinopathy diagnostic using deep learning model**
IEEE Access 10, 73079-73086, 2022 | 2022 | Cited: 169
12. **Dark web illegal activities crawling and classifying using data mining techniques**
ijim 16 (10), 123, 2022 | 2022 | Cited: 75
13. **Automatic Classification of Diabetic Retinopathy Through Segmentation Using CNN**
Lecture Notes of the Institute for Computer Sciences Social Informatics and Telecommunications Engineering Lnicst | 2022 | Cited: 4
14. **DR-LL Gan: diabetic retinopathy lesions synthesis using generative adversarial network**
International Journal of Online and Biomedical Engineering (ijOE), 2022 | 2022 | Cited: 42
15. **Automatic classification of diabetic retinopathy through segmentation using cnn**
EAI International conference on IoT technologies for HealthCare, 99-112, 2021 | 2021 | Cited: 7