

# DR. WAHEED ALI HUSSEIN MOHAMMED GHANEM

## SENIOR LECTURER

Waheed Ali Hussein Mohammed Ghanem received the B.Sc. degree in computer sciences and engineering from Aden University, Yemen, in 2003, and the M.Sc. degree in computer science and the Ph.D. degree in network and communication protocols from Universiti Sains Malaysia, in 2013 and 2019, respectively. His research interests include computer and network security, cybersecurity, machine learning, artificial intelligence, swarm intelligence, optimization algorithms, and information technology.

### CONTACT

-  +6011-37473698
-  waheedghanem@umt.edu.my
-  [fskm.umt.edu.my](http://fskm.umt.edu.my)

### SELECTED RESEARCH PROJECTS

-  Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. A Theoretical Framework for IoT Intrusion Detection Using Reinforcement Learning and Metaheuristic Optimization to Enhance Machine Learning-Based Classification and Feature Selection. (2025 - 2027). RM93,200.
-  Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education Malaysia. Enhanced Intrusion Detection in IoT Network using Hybrid Clustering and Deep Feature Selection with Ensemble Learning. (2025 - 2027). RM87,470.

### SELECTED PUBLICATIONS

-  Cyber intrusion detection system based on a multiobjective binary bat algorithm for feature selection and enhanced bat algorithm for parameter optimization in neural networks.  
WAHM Ghanem, SAA Ghaleb, A Jantan, AB Nasser, SAM Saleh, A Ngah  
IEEE Access 10, 76318-76339, 64, 2022
-  An efficient intrusion detection model based on hybridization of artificial bee colony and dragonfly algorithms for training multilayer perceptrons.  
WAHM Ghanem, A Jantan, SAA Ghaleb, AB Nasser  
IEEE Access 8, 130452-130475, 59, 2020
-  A new approach for intrusion detection system based on training multilayer perceptron by using enhanced Bat algorithm.  
WAHM Ghanem, A Jantan  
Neural Computing and Applications, 1-34 2020
-  Cognitively Inspired Hybridization of Artificial Bee Colony and Dragonfly Algorithms for Training Multi-layer Perceptrons.  
WAHM Ghanem, A Jantan  
Cognitive Computation 10 (46), 1-3958, 2018
-  Hybridizing artificial bee colony with monarch butterfly optimization for numerical optimization problems.  
WAHM Ghanem, A Jantan  
Neural Computing and Applications 30 (1), 163-18172, 2018



### RESEARCHER PROFILE

**Scopus** 56038604800  
**ORCID** 0000-0002-3764-4788  
**Google Scholar** WAHEED GHANEM

### EDUCATION

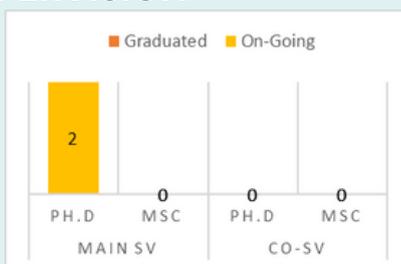


- Ph.D (USM), Malaysia
- M.Sc (USM), Malaysia
- B.Sc.(Aden University(AU), Yemen)

### AREAS OF EXPERTISE

- Computer & Network Security
- Machine Learning
- Artificial Intelligence
- Swarm Intelligence
- Metaheuristic

### SUPERVISION



### COLLABORATORS

