



## Faculty Member Academic Biography



### Personal data

Name	Dr. Ali Othman Mohammed Al Janaby		
Current academic rank	Assistant Prof.		
Workplace	Electronics Eng. college	Academic department	Comm. Dep.
General specialization	Electronics and communications	Specialization	Communications Networks
E-mail	<a href="mailto:Ali.mohammed@uoninevah.edu.iq">Ali.mohammed@uoninevah.edu.iq</a>		

### Academic qualifications

Degree	University Name	Country Studied at	Major	Graduation Date
BSc	University of Mosul	IRAQ	Electrical Engineering	1983
MSc	University of Mosul	IRAQ	Electronics and Communications	2005
PhD	University of Mosul	IRAQ	Computer Networks	2017

### Academic rank:

Academic rank	Date of Obtaining the rank	Academic rank granting Institution
Ass. Lecturer	2006	University of Mosul
Lecturer	2017	Ninevah University
Ass. prof.	2021	Ninevah University

## Practical experiences:

Time period		Employer	Job Title
from	to		
2021	now	Information Technology College	Vice Dean for scientific affairs

## Scientific production (published/accepted for publication):

Date	Issue	Vol.	Country of publication	Place of publication	title
2015	2	3	Bahrain	IJCNT	An Energy-Efficient MIMO-Based 4G " LTE-A Adaptive Modulation and Coding Scheme for High Mobility Scenarios.
2015	2	1	USA	JMSAP	A new channel quality indicator mapping scheme for high mobility applications in LTE systems
2015	4	4	Bahrain	IJCDS	Comparative Performance of Subcarrier Schedulers in Uplink LTE-A under High Users.
2019	1	2018		CONFERENCE	Survey of Hardware-based Security Support for IoT/CPS Systems
2018	6	3	Bahrain	IJCNT	Dynamic Switching of Scheduling Algorithm for Uplink LTE System.
2018	1	2018	Bahrain	3ICT 2018	Tracking High-Speed Users Using SNR-CQI Mapping in LTE-A Networks
2019	4	15	Croatia	JCOMSS	Downlink Throughput Enhancement by Beams Consolidating at Vacant Traffic.
2019	7	3	Bahrain	IJCNT	Review of Energy Consumption and Measurement Management Techniques in Smartphones
2020	9	6	Bahrain	IJCDS	Tracking and Controlling High-Speed Vehicles Via CQI in LTE-A Systems
2021	3	16	Malaysia	JESTEC	5G scheduling algorithm for capacity improvement using beam division at congested traffic
2021		2021	IRAQ	IEEE Explore	On The Performance of Multi-User Massive MIMO over mm wave Channels
2021		2021	TURKEY	IMIDC-IST	5G Uplink Performance of Symbol-Based Schedulers with Network Slicing
2021		2021	TURKEY	IMIDC-IST	Comparative Performance of mmWave 5G System for many Beamforming Methods
2021		2020	UK	IET	Smart Fuel Pump Station Controlled by IoT and WSN Deployment
2022	10	20	MALYSAIA	Neuro Quantology	A Systematic Literature Review: Overcoming physical and cognitive barriers with emerging Technology

2022		2022	IRAQ	Conference	Capacity and Throughput Enhancement for Minimum Distance Using D2D Scheme with TCP for 5G System
2023		2023	Zabliac	ICIT	QR Code Encryption for improving Bank information and Confidentiality
2023	1	19	Croatia	JCOMSS	Tracking Infected Covid-19 Persons and their Proximity Users Using D2D in 5G Networks
2023	2	18	Malaysia	JESTEC	Simulation of Connecting the Smart Energy Meters of the Residential Houses to Reduce the Load on Electrical Distribution Transformers Using LORA Technology Based on IoT
2023	1	16	Bahrain	IJCDS	Taming Existing Satellite and 5G Systems to Next Generation Networks
2024			Iraq	AIP conference	Monitoring Electricity Distribution Transformers in Mosul City based on IoT LoRaWAN Network
2024	1	16	Bahrain	IJCDS	Artificial-Intelligence-Enhanced Beamforming for Power-Efficient User Targeting in 5G Networks using Reinforcement Learning
2024	1	17	Bahrain	IJCDS	Artificial-Intelligence-Enhanced Adaptive Vertical Beamforming Techniques for 5G Networks
2024			UK	WINCOM 2024 Conference	Integrating Sensing and Communication-Based Target Detection and Speed Estimation for Beyond Generation Networks
2024	1	4	Vietnam	JTIT	Efficient Radio Resource Management in Cell-less Wireless Communication Systems
2025	2	20	Malaysia	JESTEC	INTERFERENCE MITIGATION FOR DYNAMIC USER CONNECTIVITY USING SDN AND RADIO RESOURCE MANAGEMENT IN CELL-LESS NETWORKS

### Conferences, scientific seminars, and workshops in which I participated:

Research Title	Name of conference/seminar/workshop	Venue of the conference/seminar/workshop	Date

### Published books:

Book Title	Publishing Institution	Year of Publication	Number of pages

### Awards obtained: no

Name of the award	The award-granting institution	Date

### Patent: No

Patent title	Registration Institution	Date

### Courses(s) I have taught:

Course name (subject)	Academic year	University/ Institution
4 <sup>th</sup> year digital communications/lab.	2006	University of Mosul
Basic electric networks/ lab.	2009	University of Mosul
Basic electric networks/ theory	2009	University of Mosul
Electronics measurements	2009	University of Mosul
Satellite communications systems	2017	Ninevah University
Wireless and Mobile Communications	2021	Ninevah University
Mobile Computing Systems	2023	Ninevah University

### Supervising master's or doctoral theses:

Title	Degree	Date
Investigation of Resource Allocation Schemes for 5G Network with Network Slicing	MSc.	2021
Investigation of Performance Enhancement Using Massive MIMO in 5G System	MSc.	2021
Designing LoRa WAN Network for Public Internet of Things Services in Mosul City	MSc.	2022
Investigation of Smart Device-to-Smart Device (D2D) Technology and Schemes for 5G System	MSc.	2023
On the Performance of Beamforming for Massive MIMO Architectures in 5G Systems	MSc.	2024
Non Orthogonal Multiple Access for Integrating Sensing and Communications for Next Generation	MSc.	2024
Resource Management for Cell-less Network Architecture for Next Generation Wireless Communication Systems	MSc.	2024

### Experience in the field of local community service:

Post name	Post type	Date
Committee of Friends of Thalassaemia Patients Association	Chairman	2023-now
Study of the modern mass transit system in Mosul	chairman	2024

**Note: This CV has been updated until 24/4 /2025**

