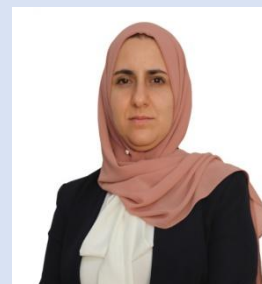




Faculty Member Academic Biography



Personal data

Name	Rasha Waleed Hamad		
Current academic rank	Assistant Lecturer		
Workplace	College of Electronics Engineering	Academic department	Department of Electronics Engineering
General specialization	Electrical Engineering	Specialization	Electronics and Communications / Electronics
E-mail	rasha.hamad@uoninevah.edu.iq		

Academic qualifications

Degree	University Name	Country Studied at	Major	Graduation Date
Bachelor's	University of Mosul	Iraq	Electrical Engineering/Electronics and Communications	2008
Master's	University of Mosul	Iraq	Electrical Engineering/Electronics and Communications/Electronics	2012

Academic rank:

Academic rank	Date of Obtaining the rank	Academic rank granting Institution
Assistant Lecturer	6/12/2020	Nineveh University

Practical experiences:

Time period		Employer	Job Title
from	to		
2023	continuous	Nineveh University	Assistant Lecturer

Scientific production (published/accepted for publication):

Research Title	Place of publication	Country of publication	Number	Vol	date of publication
A Novel Design and FPGA Implementation of the Biorthogonal 5/3 Filter Bank	Al-Rafidain Engineering J., University	Iraq	No. 4	Vol. 21	2013
Design and Multiplierless Implementations of 9 th order linear-Phase Bireciprocal Lattice Wave Digital Wavelet Filter Banks	Al-Rafidain Engineering J., University	Iraq	No. 4	Vol. 21	2013
Fuzzy Classification of ECG Signals using a QRS-Like FIR Filter Bank with Lattice Structures	Al-Rafidain Engineering J., University	Iraq	No. 2	Vol. 22	2014
Design and FPGA implementation of 11 th order Efficient IIR Wavelet Filter Banks with Approximate Linear-phase	Academic Journal of Nawroz University	Iraq	No. 4	Vol. 7	2018
Synthesis and implementation of IIR filter using VHDL language	IOP Conference Series: Materials Science and Engineering	Iraq	No. 1	Vol. 1152	2021

FPGA Based FIR Filter Structures for Radar Signal Processing	Journal of Modern Computing and Engineering Research	Iraq	-	Vol. 2023	2023
Medical Image Compression Using IIR Wavelet Filter Banks	AIP Conference Proceedings	Iraq	No. 1.	Vol. 2591.	2023
Realization of IIR Digital Filter Structures for ECG Denoising	Journal Européen des Systèmes Automatisés	France	No. 2.	Vol. 57.	2024
Real-Time Processing Stages of Electrocardiogram Signal: A Review	Journal of Modern Technology and Engineering	Iraq	No. 1.	Vol. 9.	2024
Efficient MRI Image Real-Time Processing Using FPGA-Based IIR Filters	Journal Européen des Systèmes Automatisés	France	No. 3.	Vol. 57.	2024
A Review of ECG Classification Techniques Based FPGA	Al-Salam Journal for Engineering and Technology	Iraq	No. 1.	Vol. 4.	2024

Conferences, scientific seminars and workshops in which I participated:

Research Title	Name of conference/seminar/workshop	Venue of the conference/seminar/workshop	Date
Allpass-Based Design, Multiplierless Realization and Implementation of IIR Wavelet Filter Banks with Approximate Linear Phase	2011 IEEE Fourth International Symposium on Innovation in Information & Communication Technology (ISIICT 2011)	Jordan	2011
Efficient IIR Wavelet Filter Banks with Approximate Linear-phase in Pass-band	IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies 2011 (AEECT 2011)	Jordan	2011

Courses(s) I have taught:

Course name (subject)	Academic year	University/ Institution
Real Time Lab	2011-2012 2012-2013	Department of Computer Engineering / College of Engineering / University of Mosul
Advanced Mathematics and Numerical Methods	2012-2013	Department of Computer Science / Al-Hadbaa University College
Digital Circuits	2018-2019	/ Department of Electronic Technologies / Technical Institute / Mosul
Electronics	2012-2013 2020-2021 2021-2022 2022-2023	Department of Computer Technology Engineering / Al-Hadbaa University College
Engineering Analysis	2021-2022 2022-2023	Department of Computer Technology Engineering / Al-Hadbaa University College
Advanced Digital Electronics	2020-2021 2021-2022 2022-2023	Department of Computer Technology Engineering / Al-Hadbaa University College
Microcontroller	2022-2023 2023-2024	College of Electronics Engineering / University of Nineveh
Microprocessor	2022-2023 2023-2024	College of Electronics Engineering / University of Nineveh
Signal and Systems	2019 –	College of Electronics Engineering / University of Nineveh

Note: This CV has been updated until 20 / 2 / 2024