



Mohammed Sadoon Hathal

PhD ccomputer engineering

Position: Lecturer

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-Personal Profile Statement

A motivated, adaptable and responsible post graduate seeking a position in computer methods at the intersection of computer vision, IoT, deep learning, artificial intelligence, and medical imaging technology. Will utilize the professional and technical skills developed during the PhD studies and past research experiences. With a methodical, customer-focused approach to work, and with a strong drive to see things completed.

-Research Experience

During research studies with Master students as a supervisor of research studied{ Developing An Arabic Handwritten Recognition System by means of Artificial Neural Network} and { developed an Arabic License Plate Recognition System using Artificial Neural Network and Canny Edge Detection}.

During the PhD research studies: { developed Microwave imaging system: {Simulation and experimental results of ultra-wide band (UWB) imaging oriented for early breast detection are presented. The technique is based on radar sensing where tissues are differentiated based on their dielectric permittivity. The developed image reconstruction algorithm combines beam focusing quality and multiply in-pair to identify significant scatterers in the target. The methods and procedures are tested using MRI derived breast phantom and the results are compared with image obtained from x-ray computed tomography}.

During the MS studies: { design and implementation of wireless networks { developed simulator for identifying and verified best MAC protocols supporting to multimedia applications}.

■ **First, Scientific Certification:**

Degree science	University	College	Date
PhD	University Sains Malaysia	Engineering	2014
MSc	University of Technology	Computer and Software Engineering	2005
BSc	University of Technology	Computer Engineering	1997

■ **Second, Career:**

No.	Career	Workplace	From -To
1.	Lecturer	University of Baghdad/Computer Engineering	2014-
2.	Assist Lecturer	University of Baghdad /Computer Engineering	2005-2014

■ **Third, University Teaching**

No.	University	The (Institute / College)	From -To
1	University of Baghdad/ Engineering	College of Engineering/ Computer Engineering	2005-

■ **Fourth, Courses Which You Teach:**

No.	Department	Subject	Year
1	Computer Engineering	Computer Vision Soft Computing	MSc 2016-2020
2	Computer Engineering	Computer Vision	MSc 2015
3	Computer Engineering	Artificial Intelligence	2018-
4	University Sains Malaysia	Computer Language C++ DSP	2010-2014
5	Computer Engineering	IO interfacing	2015-2018
6	Computer Engineering	Fundamentals of Computer System	2014-2017
7	Computer Engineering	AutoCAD	2005-2007
8	Computer Engineering	Computer System Architecture	2005-2010

■ **Fifth, Thesis which was supervised by :**

No.	Thesis Title	Department	Year
1	Arabic Hand Writing Text Recognition using Neural Network.	Electronic and Communication Eng./Computer Engineering	2017
2.	Arabic License Plate Recognition System using Artificial Neural Network and Canny Edge Detection		2019

■ **Sixth, Conferences which I participated:**

No	name	Type	Research
1.	<i>IEEE International Conference on, 2012.</i> Manchester, United Kingdom	IEEE	HATHAL, M. S., ZANOON, T. F., AIN, M. F. & ABDULLAH, M. Z. Year. Experimental ultra wide band imaging using heterogeneously dense breast phantom for early cancer detection. <i>In: Imaging Systems and Techniques (IST), 2012 IEEE International Conference on, 2012.</i> Manchester, United Kingdom, 130-135.
2.	<i>International Conference on, 2012.</i> Manchester, United Kingdom	IEEE	ZANOON, T. F., HATHAL, M. S. & ABDULLAH, M. Year. Microwave imaging at resolution and super-resolution with ultra-wide band sensors. <i>In: Imaging Systems and Techniques (IST), 2012 IEEE International Conference on, 2012.</i> Manchester, United Kingdom, 538-543.
3.	<i>International Workshop on Imaging Systems and Techniques,</i> Penang, Malaysia.2011	IEEE	ZANOON, T. F., HATHAL, M. S. & ABDULLAH, M. Z. Comparing image reconstruction algorithms for microwave camera featuring ultra wide band sensor. <i>IEEE International Workshop on Imaging Systems and Techniques, IST 2011., 17-18 Oct. 2011,</i> Penang, Malaysia. 112-117.
4.	<i>International Symposium on Multimedia and Communication Technology (ISMAC),</i> 2013.Bangkok, Thailand	ISMA C	MOHAMMED S HATHAL, TAREQ F ZANOON, and MOHD Z ABDULLAH. Early Breast Cancer Detection by Means of Ultra-wide Band Imaging. <i>International Symposium on Multimedia and Communication Technology (ISMAC), February 4-5, 2013.</i> Bangkok, Thailand.
5.	<i>IEEE Sensors Applications Symposium (SAS),</i> 2014, Queenstown, new Zealand.	IEEE	S. S. TIANG, M. S. Hathal, Nik Anwar, M.F. Ain and M. Z ABDULLAH. Wide-Slot Antenna for Ultra-Wideband Breast Imaging. <i>2014 IEEE Sensors Applications Symposium (SAS), February 18-20, 2014,</i> Queenstown, New Zealand.
6.	<i>Postgraduate Colloquium EEPC 2011.</i> Pahang, Malaysia.	EEPC	M. S. Hathal, & M. Z. ABDULLAH. Experimental Ultra Wide Band Imaging Using Enhanced Delay and Sum Algorithm. <i>School of Electrical and Electronic 3rd Postgraduate Colloquium EEPC 2011.</i> USM, 2-4 Dec. 2011, Bentong, Pahang.

7.	PIERS 2019 in Rome Photonics & Electromagnetics Research Symposium also known as Progress In Electromagnetics Research Symposium	PIERS 2019	Mohammed S. Hathal , Suhair S. Salih and Alaa H. Hasan Ultra-wideband Featuring Enhanced Delay and Sum Algorithm and Oriented for Detecting Early Stage Breast Cancer. PIERS 2019 in Rome. Photonics & Electromagnetics Research Symposium.
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■ **Seventh, Scientific Activities:**

Within the College	Outside the College
1. Consult Member in Journal of Engineering/ University of Baghdad 2. Consult Member in Scientific of Computer Engineering/ University of Baghdad 3. Member of committee of Engineering college for Plagiarism	Scientific Reviewer of the following ISI and Scopus Scientifics Internationals Journals such as: 1. Progress in Electromagnetic Research Journal (PIER) - United States. 2. Transaction of Institute of Measurement and control Journal – United Kingdom 3. IGI journals -United States

**Eighth, Research Projects in the Field of Specialization to the Environment and Society
or the Development of Education:**

No.	Research Title	Place of Publication	Year
1	Development of a Compact Wide-Slot Antenna for Early Stage Breast Cancer Detection Featuring Circular Array in Full-View Geometry.	International Journal of Antennas and Propagation,	2014
2.	Radar Sensing Featuring Biconical Antenna and Enhanced Delay and Sum Algorithm for Early Stage Breast Cancer Detection.	Progress In Electromagnetics Research (PIERS) Journal	2013
3.	Developing An Arabic Handwritten Recognition System by means of Artificial Neural Network	Journal of Engineering and Applied Sciences	2019
4.	Developing Arabic License Plate Recognition System using Artificial Neural Network and Canny Edge Detection.	Baghdad Science Journal,	2019

5.	Development of Iraqi License Plate Recognition System based on Canny Edge Detection Method.	Journal of Engineering University of Baghdad	2020
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Ninth, Membership:

- **Member in Iraqi Engineers Union**
- **Iraqi Academics Syndicate**

Tenth, Awards and Certificates of Appreciation:

No.	Name of Awards and Certificates	Donor	Year
1	Acknowledgement and Appreciate	President of the University of Baghdad	2008
2	Acknowledgement and Appreciate	President of the University of Baghdad	2009
3	Acknowledgement and Appreciate	Universiti Sains Malaysia / Electrical and Electronic 3rd Postgraduate Colloquium EEPC 2011	2011
4	Best Paper Award	IEEE International Conference on Imaging Systems and Techniques (IST) , 2012. Manchester, United Kingdom	2012
5	Acknowledgement and Appreciate	Dean of College of Engineering	2014
6	Acknowledgement and Appreciate	President of University of Tikrit	2014

7	Acknowledgement and Appreciate	President of the University of Baghdad	2015
8	Acknowledgement and Appreciate	Dean of College of Engineering	2015
9	Acknowledgement and Appreciate	Dean of College of Engineering	2015
10	Acknowledgement and Appreciate	Dean of College of Engineering	2015
11	Acknowledgement and Appreciate	President of the University of Baghdad	2016
12	Acknowledgement and Appreciate	Dean of College of Engineering	2017
13	Acknowledgement and Appreciate	President of the University of Al_Saadeq	2018
14	Acknowledgement and Appreciate	Dean of College of Engineering	2019
15	Acknowledgement and Appreciate	President of the University of Dohuk and Zakho	2019
16	Acknowledgement and Appreciate	President of the University of Dohuk	2020

17	Acknowledgement and Appreciate	President of the University of Baghdad	2020
18	Acknowledgement and Appreciate	Minister of Higher Education and scientific Research	2020
19	Acknowledgement and Appreciate	Minister of Higher Education and scientific Research	2020

■ **Eleventh, languages:**

- ✓ English
- ✓ Arabic

-Skills

Programming skills

Matlab, C++, Python and Robot Operating System (ROS)

-Computer skills

LUNIX, Windows, LaTeX and Microsoft office

-Hobbies and Interests

I enjoy solving puzzles,