Dr. Eng. Yasser KHADRA

Curriculum Vitae

General Information

Name	Yasser KHADRA	
Nationality	Syrian	
Place and Date of Birth	Al Mazraa-Dimas, Rural Damascus, Syria, 20-12-1976	
Marital Status	Married	
Personal Address	Mazraa-Dimas, Damascus, Syria Tel. Mobile: +963 988 916 235	
Work address	Ministry of Higher Education and Scientific Research	
	MasahTech, Senior R&D Software Developer, Damascus – Syria.	
	Damascus University, FMEE, Computer & Automation Engineering Dep. Damascus - Syria.	
	Al-Baath University, FMEE, Mechatronic Engineering Dep. Homs-Syria.	
	Syrian Computer Society- Damascus - Syria	
E-mails:	dr_yasser_khadra@hotmail.com t_ykhadra@svuonline.org	
LinkedIn	https://www.linkedin.com/in/yasser-khadra-64737674	

Qualifications

Degree	Specialization	Date	Source
PhD	Digital Image Processing & Pattern Recognition (Medical Applications)	2008	INSA de Lyon, France
Master	Signals & Images (3D Medical Image Segmentation)	2003	
PGDip	Biomedical Engineering	2001	Damascus University, Syria
Bachelor		1999	

Experiences/ Scientific and Administrative Positions

Experiences and Positions		Started Date	Ended Date
Associate Professor	Damascus University	2024	To date
Associate Professor	Al-Baath University	2016	2024
Assistant Professor		2009	2015
Mcs-Phd candidate	INSA Lyon-France	2002	2008
Assistant	Al-Baath University	2001	2002
Bio-Medical Engineer	Bekaa Hospital, Lebanon	1999	2001

Membership of Committees and Boards	**Kind of Participation** - HMIS Project **Consultant** (WHO-Syria), APW. - **Director** of Scientific Research at the Ministry of Higher Education and Scientific Research – Syria. - **Consultant** in **Biomedical Engineering** at Al Baath University Hospital – Homs. - Director of **Training & Formation** – Syrian Computer Society - Director of **Automation and Mechatronics Club** – Syrian Computer Society – Damascus. - Member of **Electronic and Communications** Engineering Department Council - Al-Baath University

Professional Memberships	**Started Date**	**Ended Date**	**Type**
	1999	to date	Syrian Engineering Association
	2000	to date	Syrian Computer Society

Research Interests	Biomedical Engineering, Computer Programming, System Automation, Medical Digital Image and signal Processing, Computer Vision, Pattern Recognition.

Patents	**Title**	**Date**	**Occasion and Source**
	Electronic Stethoscope	1999	Invention Patent- Syria (No. 4822/5301)

Awards	• The Best Published Research Award in the Society of Faculties of Engineering Research Journal (The Association of Arab Universities) for **2020**. • One of the distinguished University professors of SVU for F20 semester.

Conferences, Seminars and Training Activities	**Location and date**	**Organizing Party**	**Kind of Participation**
	Artificial Intelligence and Digital transformation – Homs- Syria (17 May 2024)	Wadi International University	Lecturer
	International Conference on Biomedical Engineering II (15-16-17 May 2023)	Damascus University - Syria	Lecturer
	International Conference on Biomedical Engineering I (16 – 18 may 2022)	Damascus University - Syria	Lecturer
	Big Data (03 April 2019)	SCS-Syria. Ministry of Communication - Syria	Lecture
	Anduls Private University – Tarttoss – Syria – October 2018	The first Conference in Biomedical Engineering	Lecturer
	FMEE – Homs -Syria April - 2018	The first workshop in mechatronics	Lecturer
	FMEE-Al-Andulas Private University 2016 – Homs - Syria	Reverse Engineering applications in the field of artificial limbs manufacturing	Lecturer

		Course Title	Course Level	Location
Teaching Experiences	**Syrian National Universities (Master)**	Pattern Recognition	1st year - Master of Computer & Automation Engineering	Damascus University
		Robotics and Computer Vision		
		Medical Measurements and Bio-Signal Processing	1st year - Master of Communication /Electronic Engineering	Al-Baath University
		Advanced Signal Processing		
		Scientific Research Methodology		
	Syrian National Universities (Graduated & Under Graduated)	Digital Image Processing	5th year- Mechatronics Engineering	Al-Baath University
		Digital Signal Processing	5th year - Electronic and Communication Eng.	
		Signal Analysis	4th year- Computers & Control Eng.	
		Computer Vision	5th year - Computer & Automation Eng.	Damascus University
		Computer Programming	2nd year - Electronic and Communication Eng.	
	Syrian Private Universities	Computer Graphics	5th year - Information Engineering	Yarmmouk Private University
		Multimedia Systems		
		Image and Video Processing		
		Pattern Recognition		
		Medical e-training program (EMEP)	1st year – Master in Medical Education (MedE)	Syrian Virtual University (SVU)
		Designing, production and evaluation of computer educational Programs (CPD)	1st year – Master of integration of technology in education (MITE)	

Graduate Supervisions	**Phd**	A. ZAKARIA, (**2021**), "Selection of Optimal Features for Image-Based Pattern Recognition Applications", Phd Research Project Supervisor, Al-Baath University, Faculty of Mechanical and Electrical Engineering, Syria	
		M. S. ALBABA, (**2019**), "Studying of Electronic Control Circuits to Design Advanced digital Stethoscope for bio-Sounds acquisition and Processing Using Wavelet Transform", Phd Research Project Co-Supervisor, Al-Baath University, Faculty of Science, Syria	
		A. Douba, (**2016)**."The Effectiveness of a Computer Based Program in Having Students of the Faculty of Education Acquire the Skills of Designing an Instructional Electronic Website", Phd Research Project Co-Supervisor, Damascus University, Faculty of Education, Syria	
	Master	M. Alshimaly, (**2018)**. "Brain images Registration to accurate the Brain tumor location and size for proton therapy", Master's Research Project Supervisor, Al-Baath University, Homs, Syria.	
		A. Zakaria, (**2016)**. "Automatic Building Detection Form Satellite Images in GIS", Master's Research Project Supervisor, Al-Baath University, Homs, Syria.	
		R. Nader, (**2015)**. "Developing of Examination Digital Correcting System Using Artificial Neural Networks", Master's Research Project Supervisor, Al-Baath University, Homs, Syria.	
		B. IBRAHIM, (**2014)**. "Reduction peak to Average power Ratio (PAPR) By Clipping and Filtering to Improve Performance of OFDM System" Master's Research Project Supervisor, Al-Baath University, Homs, Syria.	
		M. S. ALBABA, (**2013)**. "Designing a laboratory-based ECG model to realize a reference ECG signal and to modeling the normal variation for aiding in the diagnostic of cardio diseases", Master's Research Project Supervisor, Al-Baath University, Homs, Syria.	
		M. Saleh, (**2013)**. "Auto-Recognition of Car Identity Using Image Processing and Neural Networks Techniques", Master's Research Project Supervisor, Al-Baath University, Homs, Syria.	
	Selected Graduation Projects	Mobile-based Smart Guide for Blind People	Damascus University (Computer& Automation Engineering
		Timekeeping System Based on Face Recognition	
		Medical Records Automation	
		Medical Center Management System	Syrian Virtual University (Information System Engineering)
		Virtual pharmacy	
		CRM (Customer Relationship Management) of SCS Training Center	
		Nursing Management System – Hardware & Software	Al Baath University (Communication Engineering)
		Optical Mark Recognition	
		Medical Gas Network (Modelling and Simulation)	

Publications	**F. Brangakgi, Y. Khadra (2024),** "Building a Deep Learning Model to Detect Osteoporosis from Dental Panoramic X-Ray Image1", Open Journal of Applied Sciences, Vol. 14, No.12, December 2024.
	A. ZAKARIA, Y. KHADRA, E. Al-Abboud, (2020)," Selection of the optimum features to identify tooth decay in the panoramic images based on image texture analysis", Association of Arab Universities Journal of Engineering Sciences, DOI:10.33261/jaaru.2019.27.1.014
	A. ZAKARIA, Y. KHADRA, (2019)," Improving Recognition Pathological Cyst Pattern of panoramic images based on Optimal Selection of Features", Arab Journal of Science & Research publishing, DOI: 10.26389/AJSRP.A010519.
	M. S. ALBABA, A. Alabdo, **Y. KHADRA,** (**2019**), "Calculation the precision of the conversion of bio-signals (heart sounds) in analog to digital and digital to analog conversion processes in ATmega 8 microcontroller processors using computer simulation", Association of Arab Universities Journal of Engineering Sciences, IRAQ.
	A. ZAKARIA, Y. KHADRA, (2018), "Optimal Detection of Patterns in Satellite images Using Texture Features ", Journal of Al-Baath University for Engineering Sciences, Homs, Syria**.**
	M. S. ALBABA, A. Alabdo, **Y. KHADRA,** (**2018**), "Designing a Simulation Model for Cardiac Sounds and Checking the Accuracy of the Convertors Used in Microcontroller for This Type of Applications", Advances in Physics Theories and Applications, USA, ISSN 2224-719X (Paper) ISSN 2225-0638, Vol.72
	M. S. ALBABA, Y. KHADRA, A. Alabdo, (**2018**), "An improved method to simulate the biological acoustic signals based on DWT", Journal of Al-Baath University for Engineering Sciences, Homs, Syria**.** Vol. (40).
	M. S. ALBABA, Y. KHADRA, A. Alabdo, (**2018**), "Development of An Integrated Experimental Mathematical Model of the Stethoscope", Egyptian Journal of applied sciences, Vol. (33) No. (1).
	A. ZAKARIA, Y. KHADRA, (2016), "Building Detection in the Satellite Image using Rectangle Hough Transform"", Journal of Al-Baath University for Engineering Sciences, Homs, Syria**.**
	Y. KHADRA, (2015), "Selection of the Suitable Mother Wavelet for Wavelet Transform – Application on the ECG Processing", Journal of Damascus University for Engineering Sciences, Damascus University, Syria.
	Y. KHADRA, (2015), "Comparative Study of the Impulse Noise Removal Methods In Medical Images", Journal of Damascus University for Engineering Sciences, Damascus, Syria.
	B. IBRAHIM, Y. KHADRA, Y. EMLEH , (2014), "Reduction peak to Average power Ratio (PAPR) By Clipping and Filtering to Improve Performance of OFDM System", Journal of Al-Baath University for Engineering Sciences, Homs, Syria, **2014**., Vol 36, Issue 26.
	Y. KHADRA, (2008), "Méthodologie de réalisation de modèles anatomiques maillés: application à l'imagerie du petit animal", INSA Lyon, France.
	S. JIAO, Y. KHADRA, R. GOUTTE, (2006) "Genomic architecture of 2d images after regions- based segmentation", IEEE, 8th International Conference on Signal Processing (ICSP), (Volume:2), Beijing, China.

computer and programming skills	C++, QT, Python, C#, Matlab**,** Delphi, Android application programming, wxPython, KIVY, Django, ITK, VTK, OpenCV, Action Script, HTML , CSS, Java Script, MQL4/5.
Languages	• **Arabic**: Native language. • **French**: Fluent. • **English**: Very good.

December 2024 **DR. Eng. Yasser KHADRA**