Curriculum Vitae of a faculty member

1. Personal information

Name	Dr. Shefa Abdulrahman Dawwd
Academic Degree	Professor
Job Title	Faculty member
General Major	Computer Engineering
Mobil No.	07707404377
Email address	shefa.dawwd@uomosul.edu.iq
Website	

2. Qualifications

Degree	Date of Graduation	Name of university	Country	Major
Doctorate	2006	Mosul	Iraq	Computer Engineering
Master	2000	Mosul	Iraq	Computer Engineering
Bachelor	1991	Mosul	Iraq	Electronic & Communication Engineering

3. Experiences

Employer	Job Title	Period
Computer Engg. Dept./Univ. of Mosul	Assist. Lecturer	2001-2006
Computer Engg.	Lecturer	2006-2009

Dept./Univ. of Mosul		
Computer Engg. Dept./Univ. of Mosul	Assist. Professor	2009-2017
Computer Engg. Dept./Univ. of Mosul	Professor	2017-present

4. Researches & Scientific activities

	Journals
1	Ali Al-Saegh, Shefa A. Dawwd," Deep Learning for Motor Imagery EEG-based Classification: A Review". Accepted to be published in Biomedical Signal Processing and Control Journal. Aug 2020. *Scopus Indexed*.
2	Shefa A. Dawwd, Ula T. Salim,"Systolic Gesture recognition/Detection system based on FPGA with multi-port BRAMs, Alexandria Engineering Journal Volume 58, Issue 3, September 2019, Pages 841-848, *Scopus Indexed*.
3	Layth M. Fawzi, Siddeeq Y. Ameen, Shefa A. Dawwd, Salih M. Alqaraawi, Two Levels Alert Verification Technique for Smart Oil Pipeline Surveillance System (SOPSS), International Journal of Computing and Digital Systems, vol. 8, No. 2 (Mar-2019), *Scopus Indexed*.
4	Shefa A. Dawwd, Suha M. Nori, Reduced Area and Power Implementation of FFT/IFFT processor. Iraqi Journal of Electrical and Electronic Engineering , Vol. 14, No. 2, 2018,
5	Layth M. Fawzi, Siddeeq Y. Ameen, Shifa A. Dawwd, Salih M. Alqaraawi , " Embedded Real-Time Video Surveillance System based on Multi-Sensor and Visual Tracking ", Appl. Math. Inf. Sci. 12, No. 2, 1-15 (2018), *Scopus Indexed*.
6	Shefa A. Dawwd, " GLCM based Parallel Texture Segmentation using a Multicore Processor", IAJIT vol.16, No. 1, Jan 2019. *Scopus Indexed.*
7	Layth M. Fawzi, Siddeeq Y. Ameen, Shifa A. Dawwd, Salih M. Alqaraawi," Comparative Study of Ad-hoc Routing Protocol for Oil and Gas Pipelines Surveillance Systems", International Journal of Computing and Network Technology, Int. J. Com. Net. Tech. 4, No. 2 (May-2016).
8	Shefa A. Dawwd, Noor M. AL-Layla , "Training Acceleration of Multi-Layer Perceptron using Multicore CPU and GPU under MATLAB Environment", Al-Rafidain Engineering Journal, IRAQ, vol.23, No. 3, 2015, pp. 1-12.
9	Shefa A. Dawwd , Qutaiba I. Ali, "On Demand Ciphering Engine (ODCE) Using Artificial Neural Network (ANN)", International Arab Journal of Information Technology(IAJIT), vol.13,No.5, Sep. 2016. *Scopus Indexed*.
10	Shefa A. Dawwd, Ula F. Ahmed, "A hardware Realization of Multipoint Electronic Device using FPGA and Neural Network", International Journal of Engineering and Science and Technology, vol.4, No. 1, Feb. 2015, pp. 136-144.
11	Shefa A. Dawwd , Ali Al-Saegh , "RAM-Based Neural Network Parallel Implementation on a Reconfigurable Platform and Its Application for Handwritten Digits Recognition", Al-Rafidain Engineering Journal, IRAQ,

	vol.23, No. 2, 2015, pp. 76-87.
12	Shefa A. Dawwd, Esraa Gh. Mohammad, "Pipelined Parallel Implementation of Advanced Encryption Standard Crypto-System", Al-Rafidain Engineering Journal, IRAQ, vol.23, No. 2, 2015, pp. 44-55.
13	Shefa A. Dawwd, Ula T. Salim, "Systolic Video Stream Object Detector Using FPGA", Al-Rafidain Engineering Journal, IRAQ, vol.22, No. 4, 2014, pp. 33-43.
14	Basil M. Saied, Shefa A. Dawwd," Neural Network Based Pipelined-Parallel Generation of PWM Signals Suitable to Drive Three Single Phase UPS", Al-Rafidain Engineering Journal, IRAQ, vol.21, No.5, 2013, pp. 1-15.
15	Shefa. A. Dawwd, Ahmed. F. AL-Alaff, "FPGA Reconfigurable 2D FFT System ", Al-Rafidain Engineering Journal, IRAQ, vol.19,No. 3, 2011, pp. 76-88.
16	Shefa. A. Dawwd, Ahmed. F. AL-Alaff, "Run Time Reconfigurable FFT Engine" ", ", Nahrain University College of Engineering Journal, IRAQ, Vol. 13, No. 2, 2010, pp. 150-157.
17	Shefa A. Dawwd, "Real time implementation of FIR filter based on time delay neural network", Al-Rafidain Engineering Journal, IRAQ, vol. 18, No. 4, 2010, pp.17-27.
18	Shefa. A. Dawwd, Basil. Sh. Mahmood , Rasha. E. Majeed, "Real time Image segmentation for face detection based on Fuzzy Logic", Nahrain University College of Engineering Journal, IRAQ, vol. 11,No. 2, 2008, pp.278-287.
19	Shefa. A. Dawwd, " High Performance Colored Image Segmentation System Based Neural Network", Al-Rafidain Engineering Journal, IRAQ, vol. 17, No. 2, 2009, pp.1-10
20	Shefa. A. Dawwd, Basil. Sh. Mahmood,"Development and Evaluation of two Memory Architectures for the Hardware Version of CNN Face Recognizer" , Al-Rafidain Engineering Journal, IRAQ, , vol. 16, No. 3, 2008, pp.11-24.
21	Shefa A. Dawwd, Basil Sh. Mahmood, " Neural network Feature Extraction for the Tasks of Visual Recognition", Al-Rafidain Engineering Journal,IRAQ, vol.13, No.4, 2005,pp.1-10.
22	Shefa A. Dawwd, " DCT with Quadtree Decomposition algorithm for Image Segmentation", Al-Rafidain Engineering Journal, IRAQ, vol.10, No.2, 2002,pp.27-37.
Conferences	
23	Shefa A. Dawwd, Basil Sh. Mahmood, Time Sharing based Parallel Implementation of CNN on Low cost FPGA, Accepted in ICOASE 2018.
24	Shefa. A. Dawwd, " The Multi 2D Systolic Design and Implementation of Convolutional Neural Networks", 2013 IEEE International Conference on Electronics Circuits, and Systems (ICESC 2013), Abu Dhabi-UAE, Dec 8-11, 2013, pp. 221-224.
25	Shefa A. Dawwd, Esraa Gh. Mohammad, High Performance Data Encryption based on Advanced Encryption Standard using FPGA", The Second Scientific Engineering Conference, University of Mosul, College of Engineering,19th - 21st

	Nov. 2013, pp. 125-134.
26	Shefa A. Dawwd, Suha M. Nori, " Implementation of FFT/IFFT Processor On Reconfigurable Platform", The Second Scientific Engineering Conference, University of Mosul, College of Engineering,19th - 21st Nov. 2013 pp.1-15.
27	Shefa A. Dawwd, Ula T. Salim **,** "GPU Acceleration of Object Detection on Video Stream using CUDA", 1ˢᵗ International Scientific Conference/ Technical College-Mosul, ICECCPCE13, 2013
28	Shefa A. Dawwd , Faris S. Fathi," Hardware Implementation of 2D convolution on FPGA", 4ᵗʰ International scientific conference of Salahaddin University-Erbil (SU-ERBIL 2011), pp. 62-67.
29	Basil M. Saied, Shefa A. Dawwd, Ahmad S. Al-Soufi ," FPGA based Selective Harmonic Elimination Pulse Width Modulation Technique ", 4ᵗʰ IEEE international Workshop for Design and Test, Riyadh, Saudi Arabia, ISBN: 978-1- 4244-5748-9, 2009.
30	Shefa A.Dawwd; Basil Sh. Mahmood; "A reconfigurable interconnected filter for face recognition based on convolution neural network",4ᵗʰ IEEE international Workshop for Design and Test, Riyadh, Saudi Arabia, ISBN: 978-1- 4244-5748-9, 2009.
31	Shefa. A. Dawwd, Basil. Sh. Mahmood," Hardware and Software modifications on the Neocognitron and its binary implementations on FPGA", ACIT 2007, 26-28 November 2007, Lattakia, Syria, pp.309-317.
32	Shefa. A. Dawwd, Yhya. R. Kuraz, "Implementation of a Wavelet network using FPGA", The 1ˢᵗ Electrical Engineering Conference (EEC-2007), Aleppo, Syria, June 26-28, 2007.
33	Shefa. A. Dawwd, Basil. Sh. Mahmood," FPGA Design Implementation of a Reconfigurable Architecture for Convolutional Neural Network",The 6ᵗʰ International Philadelphia Engineering Conference(IPEC 2006) Amman Jordan ,19-21 Sep 2006.
34	Shefa A. Dawwd, Basil Sh. Mahmood, " Neural network Feature Extraction for the Tasks of Visual Recognition", the M2USIC 2004 Multimedia University-Malaysia.
35	Shefa A. Dawwd, Basil Sh. Mahmood, "High Performance Image Recognition System Based Neural Network", Proceedings of the 1ˢᵗ International Conference on Telecomputing & Information Technology, Amman-Jordan, 22-24 Sept. 2004, pp.23-28.
Four other papers under review	
Books	
1	Shefa A. Dawwd, Basil Sh. Mahmood , "Video Based Face Recognition using Convolutional Neural Network", book chapter-in: New approaches to Characterization and Recognition of faces, InTeck Open Access Publisher, Croatia, ISBN 978-953-307-515-0,pp. 131-152, 2011.

5. Scientific Conferences

	Conference Name	Date
1	ICOASE 2018.	2018
2	2013 IEEE International Conference on Electronics Circuits, and Systems (ICESC 2013), Abu Dhabi-UAE	2013
3	The Second Scientific Engineering Conference, University of Mosul, College of Engineering	2013
4	1st International Scientific Conference/ Technical College Mosul, ICECCPCE13, 2013	2013
5	4th International scientific conference of Salahaddin University-Erbil (SU-ERBIL 2011)	2011
6	4th IEEE international Workshop for Design and Test, Riyadh, Saudi Arabia	2009
7	ACIT 2007, 26-28 November 2007, Lattakia, Syria	2007
8	The 1st Electrical Engineering Conference (EEC-2007),Aleppo, Syria	2007
9	The 6th International Philadelphia Engineering onference(IPEC 2006) Amman Jordan	2006
10	The M2USIC 2004 Multimedia University-Malaysia.	2004
11	The 1st International Conference on Telecomputing & Information Technology, Amman-Jordan	2004

6. Training courses for faculty members .

	Training program name	Date
1	Russian Language	2002
2	Teaching Methods	2006
3	English Language	2004
4		
5		

- **Master's and Doctoral theses which he supervised**

Six M.Sc
One Ph.D
Four Ph.D (under supervision)

- **Theses which he discussed**

More than 50 M.Sc
& two Ph.D