

## CURRICULUM VITAE

**Dr. Ziyad K. Farej**

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### EDUCATION

	Degrees Obtained	Certificate Donor University /Country	Graduation Date
1	B.Sc. in Elecrtonic System Engineering	Cranfield University (shrivenham)/UK	1989
2	M.Sc. in Electronic and Communication Systems	University of Mosul/Iraq	2003
3	Ph.D. in Computer Networks and Communication Engineering	University of Mosul/Iraq	2012

### ACADEMIC EMPLOYMENT

	Job Title	Place of Work	From	To
1	Lecturer	Computer Technology Eng. Dept./Technical Engineering College/ Mosul	2004	2007
2	Lecturer	Medical Instrumentation Technology Eng. Dept./Technical Engineering College/ Mosul	2008	2012
3	Head of Medical Instrumentation Technology Eng. Dept.	Technical Engineering College/ Mosul	2013	2016

### HONORS AND AWARDS

ت	Honor and Awards	Conference	Place
1	A Certificate of Appreciation	For taking part and research presentation on the first International Conference on Electrical Communication, Computer, Power, and Control Engineering (ICECCPCE).	Held at Technical Engineering College/ Mosul, 17 – 18 December 2013.
2	A Certificate of Attendance	Engineering Sectorial Committee Meeting	Held at Al-Mussaib Technical College In 3/3/2014
3	Certificate of Participation	Research participation in the International Conference on Advance of Sustainable Engineering and its Application (ICASEA).	Held at Wasit University/ Wasit, 14-15 March 2018.
4	Certificate of Participation in Research Fellowship	Taking part in Research Fellowship for my Ph.D. degree	Salford Greater Manchester University, from 21 Nov. 2010 to 21 May 2011
5	Certificate of Participation	Research participation in the 2nd ICETS-2018 2nd International Conference for Engineering, Technology and Science of Al-Kitab- 4-5 Dec. 2018	Held at “Al-Kitab University”- Kirkuk- IRAQ 4-5 Dec. 2018
6	Certificate of Participation	Research participation in the 2nd International Conference on Electrical, Communication, Computer, Power and Control Engineering (ICECCPCE), 13-14 February 2019.	Held at Technical Engineering College/ Mosul, 13 – 14 December 2019.

### PROFESSIONAL AFFILIATIONS AND SERVICES

	Scientific courses and workshops	Place	From	To
1	Multiple Access (OFDM) Systems	Technical college/Mosul	10/11/2013	14/11/2013
2	Advanced course in Matlab	Technical college/Mosul	9/1/2008	14/1/2008
3	Rehabilitation of Third Teaching Methods	Technical Institute/Mosul	16/10/2011	27/10/2011
4	Symposium on "X-ray Techniques"	Iraq	2/4/2014	3/4/2014
5	course in Matlab/Simulink	Technical	23/12/2018	27/12/2018

		college/Mosul		
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## PUBLICATIONS

ت	Research Title	Published by	Date
1	Analyses and Design of FH/MFSK Spread Spectrum Channel Simulator	Rafidain Engineering Journal, University of Mosul, Vol. 11, No. 1, 2003.	2003
2	A PC-Based Algorithm for Testing a Configured PLD Using Boundary Scan Test	Dirassat Journal, Jordan University, Vol. 35, No. 2, Oct. 2008.	2008
3	Implementing Digital Filter Using Programmable Logic Device for Education Aims	Al-Taqani Journal, Foundation of Technical Education, Vol. 24, No.2, 2011, p133-144	2011
4	Directivity with Efficient Routing and Centralized Scheduling Algorithms for WiMAX Based Mesh Networks	Rafidain Engineering Journal, University of Mosul, Vol. 21, No. 5, 2013, p 53-68.	2013
5	Minimizing of Scheduling Time under Fair Centralized Scheduling and Efficient Routing Algorithms for WiMAX based Mesh Networks	2013 International Conference on Electrical Communication, Computer, Power, and Control Engineering (ICECCPCE), Date Added to IEEE Xplore: 29 December 2014.	2013
6	WiMAX Mesh Topology with Modified Fair Centralized Scheduling and Routing Algorithms Based on Testing Feature of Down-Node Group	Rafidain Engineering Journal, University of Mosul, Vol. 22, No. 1, 2014, p 79-98.	2014
7	Evaluation of the Performance of IEEE 802.15.4 based WSN for Large Scale Application	International Journal of Networking and Communication (IJNC), Vol. 1, Issue 1, Jul 30, 2014 by EDAS	2014
8	Performance Evaluation for Large Scale Star Topology IEEE 802.15.4 Based WSN	Jordan Journal of Electrical Engineering (JJEE), Vol. 1, No. 1, 2015, p 45-54.	2015
9	Performance Evaluation of IEEE 802.15.4/ZigBee WSN for Large Scale Deployment in Mesh Topology	International Journal of Advanced Research in Computer Science and Software Engineering, Vol. 5, Issue 5, May 2015.	2015
10	Performance Comparison among (Star, Tree and Mesh) Topologies for Large Scale WSN based IEEE 802.15.4 Standard	International Journal of Computer Application, Vol. 124, No. 6, Aug. 2015	2015
11	Performance Analysis of IEEE 802.15.4 based Sensor Networks for Large Scale Tree Topology	Circulation in Computer Science Vol.2, No.7, pp: (9-13), August 2017	2017
12	Performance Evaluation of IEEE 802.15.4 Based Wireless Sensor Network for Small-Scale Application	Tikrit Journal of Engineering Sciences, Vol. 24, No. 3, Sep. 2017.	2017
13	Design and Performance Analysis of LQR Controller for Stabilizing Double Inverted Pendulum System	Circulation in Computer Science Vol.2, No.9, pp: (1-5), October 2017.	2017
14	Investigation on the Performance Analysis of the IEEE 802.11a Standard Based WSN With QoS	2018 International Conference on Advance of Sustainable Engineering and its Application (ICASEA), Date Added	2018

	Application	to IEEE Xplore: 04 June 2018	
15	Adaptive Multitone Noise Cancellation From Speech Signals	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 19 (2018) pp. 14102-14107	2018
16	Performance Evaluation of a Hybrid Fuzzy Logic Controller based on Genetic Algorithm for Three Phase Induction Motor Drive	International Journal of Power Electronics and Drive System (IJPEDS) Vol. 10, No. 1, March 2019, pp. 117~127, ISSN: 2088-8694.	2019
17	Investigation on the Performance of the IEEE802.11n based Wireless Networks for Multimedia Services	2ndICETS-2018 2nd International Conference for Engineering, Technology and Science of Al-Kitab- 4-5 Dec. 2018 Date Added to IEEE Xplore:	2019
18	A novel Fast Clocking PN Code Acquisition Synchronizer"	2nd International Conference on Electrical, Communication, Computer, Power and Control Engineering (ICECCPCE), 13-14 February 2019. Date Added to IEEE Xplore:	2019

**PEER-REVIEWED JOURNAL ARTICLES AND INVITED BOOK CHAPTERS**

**MANUSCRIPTS IN PREPARATION/SUBMITTED FOR REVIEW**

ت	Researches Submitted For Review	Date
1	A New Fuzzy PD2 Controller for High Order Time Delay Systems	
2		
3		

ت	Researches in Preparation	Date
1	Performance Investigation of a Gold Code based Random PWM driver For Z-Source Invertor	
2	Design And Modeling of a Two – Dimension Adaptive Compensator for an Ultrasonic Image Transducer	
3	A MATLAB based Kidney Stone Identification Procedure for Diagnosis Aiding	
4	Investigation on the Performance of the OFDM-MIMO Channel for WiMAX Networks	
5	Implementing FIR Digital Filter Using Arduino Microcomputer	
6	Laser Diode Beam Monitoring with Adaptive Filtering for Precise Measurement	
7	Investigation on the Tracking of Multiple Objects Using MATLAB Dynamic Simulator	

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## CONFERENCE PRESENTATIONS

ت	Conference Name	Place
1	2013 International Conference on Electrical Communication, Computer, Power, and Control Engineering (ICECCPCE),	Technical Engineering College in Mosul/ Iraq
2	Invited as a speaker to the International Conference on Photonics Researches , 8-12 October 2018.	Antalya / Turkey
3	2nd International Conference on Electrical, Communication, Computer, Power and Control Engineering (ICECCPCE), 13-14 February 2019.	Technical Engineering College in Mosul/ Iraq

## POSTERS

## TEACHING EXPERIENCE

1. Medical Communication
2. Digital Communication
3. Computer Network Fundamentals
4. Computer Network Protocols
5. Computer Communication and Networking
6. Computer Interfacing Circuits
7. Digital Signal Processing

## TEACHING INTERESTS

1. Computer Network Fundamentals
2. Computer Communication and Networking
3. Digital Communication
4. Computer Network Protocols

