Dr. Farmanullah Jan

Assistant Professor

Personal Data

Nationality | Pakistani

Date of Birth | 1972

Department | Computer Science

Official UoD Email | fzmjan@iau.edu.sa

Office Phone No. | Not allotted yet

Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Good	Fair
English	Excellent	Excellent	Excellent
Others			

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2014	PhD (Electrical Engineering)	Islamabad	COMSATS Institute of Information Technology, Islamabad, Pakistan (Pk).
2009	M.Sc. (Computer Engineering)	Taxila	University of Engineering and Technology, Taxila, Islamabad, Pk,
1998	M.Sc. (Electronics)	Peshawar	University of Peshawar, Khyber Pukhtunkhwa (KPK), Pk

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Development and Analysis of Robust Iris Segmentation Algorithms for Non Ideal Iris Recognition System.
Master	--
Fellowship	--

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date

Assistant Prof.	KSA	Computer Science Department, CCSIT, IAU, Dammam.	2018	Till date
Assistant Prof.	PK	COMSATS University of Islamabad, Islamabad.	2016	2018
Assistant Prof.	KSA	College of Computing and Informatics, Saudi Electronic University, ABHA, KSA.	2015	2016
Assist Prof,	Pk	COMSATS University of Islamabad, Islamabad.	2009	2015
Lecturer	Pk	COMSATS University of Islamabad, Islamabad.	2003	2009
Product Design and Development Engineer	Pk	Electronic Development Centre, SIDB, Kohat Road, KPK, Pk.	1998	200

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
In-Charge of BEL Electronics Program	COMSATS University of Islamabad, Islamabad.	2016-2018
In-Charge of the Microprocessor Laboratory	COMSATS University of Islamabad, Islamabad.	2005 till 2015

Scientific Achievements

Published Refereed Scientific Researches
(In Chronological Order Beginning with the Most Recent)

1)	N. Min-Allah, M.B. Qureshi, **F. Jan**, S. Alrashed, and J. Taheri, "*Deployment of real-time systems in the cloud environment*", The Journal of Supercomputing (2020). *https://doi.org/10.1007/s11227-020-03334-7*
2)	**F. Jan**, N. Min-Allah, "*An effective iris segmentation scheme for noisy images*", Biocybernetics and Biomedical Engineering **4**, (2020) 1064-1080. *https://doi.org/10.1016/j.bbe.2020.06.002*
3)	**F. Jan**, N. Min-Allah, S. Agha, I. Usman and I. Khan. "*A robust iris localization scheme for the iris recognition*", Multimedia Tools and Applications (2020); *https://doi.org/10.1007/s11042-020-09814-5*
4)	**F. Jan**, MIB, Ahmed, N. Min-Allah, "Databases for Iris Biometric Systems: A Survey", SN Computer Science **1**, (2020) 1-36; *https://doi.org/10.1007/s42979-020-00344-3*
5)	S. Agha, U.A. Gulzari, F. Shaheen, and **F. Jan**, *J,* Real-Time Image Proc (2019). *https://doi.org/10.1007/s11554-019-00892-9*
6)	**F. Jan**, "*Pupil localization in image data acquired with near-infrared or visible wavelength illumination*", Multimedia Tools and Applications **77**, (2018) 1041–1067.

7)	F. Jan, *"Segmentation and localization schemes for non-ideal iris biometric Systems"*, Signal Processing **133**, (2017) 192-212
8)	F. Jan, *"Non-circular Iris Contours Localization in the Visible Wavelength Eyeimages"*, Computers & Electrical Engineering **62**, (2017) 166-177.
9)	F. Jan and I. Usman, *"Iris Segmentation for Visible Wavelength and Near Infrared Eye Images"*, OPTIK- International Journal for Light and Electron Optics **125**, (2014) 4274-4282.
10)	F. Jan, I. Usman, S. A. Khan, and S. A. Malik, *"A dynamic non-circular iris localization technique for non ideal data"*, Computers & Electrical Engineering **40**, (2014) 215-226.
11)	F. Jan, I. Usman, and S. Agha, *"A non circular iris localization algorithm using image projection function and gray level statistics"*, OPTIK- International Journal for Light and Electron Optics **124**, (2013) 3187-3193
12)	F. Jan, I. Usman, and S. A. Khan, *"Robust iris biometric system for visible wavelength data"*, Chinese Optics Letters **11**, (2013) 081501-7.
13)	F. Jan, I. Usman, S. A. Khan, and S. A. Malik, *"Iris localization based on the Hough transform, a Radial-gradient operator, and the gray-level intensity"*, OPTIK- International Journal for Light and Electron Optics **124**, (2013) 5976–85.
14)	F. Jan, I. Usman, and S. Agha, *"Reliable iris localization using Hough transform, histogram-bisection, and eccentricity"*, Signal Processing **93**, (2013) 230-241.
15)	F. Jan, I. Usman, and S. Agha, *"Reliable iris localization using Integral projection function and 2D-shape properties"*, Chinese Optics Letters **10**, (2012) 111501-6.
16)	F. Jan, I. Usman, and S. Agha, *"Iris localization in frontal eye images for less constrained iris recognition systems"*, Digital Signal Processing **22**, (2012) 971-986.

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title		Report Date

Current Researches

1)	Title	IoT-Based Smart Water Tank.	
	Project number:	2019-381-CSIT	
	Principal Investigator	**Dr. Farmanullah Jan**	
	CO- Principal Investigator:	(a) Dr. Nasro Min-Allah	(b) Dr. Dilek Dustegor
	From:	*Sept 2019 ~ Sept 2021*	
	Sponsored by:	Deanship of Scientific Research, Imam Abdulrahman Bin Faisal University, Saudi Arabia.	
2)	Title	Development of Real-Time Systems in the Cloud.	
	Project number:	2019-359-CSIT	
	Principal Investigator	Nasro Min-Allah	
	CO- Principal Investigator:	**(a) Dr. Farmanullah Jan**	(b) Dr. Dilek Dustegor
	From:	*Sept 2019 ~ Sept 2021*	
	Sponsored by:	Deanship of Scientific Research, Imam Abdulrahman Bin Faisal University, Saudi Arabia.	
3)	Title	Smart Campus Initiative – an Energy Management System Tailored for Imam Abdulrahman Bin Faisal University: From Reactive Demand Side Management to Preventive Demand Response.	
	Project number:	2019-343-CSIT	
	Principal Investigator	Dilek Dustegor	
	CO-Principal Investigator	(a) Dr. Nasro Min-Allah	**(b) Dr. Farmanullah Jan**
	From:	*Sept 2019 ~ Sept 2021*	
	Sponsored by:	Deanship of Scientific Research, Imam Abdulrahman Bin Faisal University, Saudi Arabia.	

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution

Membership of Scientific and Professional Societies and Organizations

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Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Microprocessor and Microcontroller Architecture	--	Credit hours (3,1)
2	Microprocessor and Microcontroller Based Systems	EEE341	Credit hours (3,1)
3	Real Time Embedded Systems	EEE446	Credit hours (3,1)
4	VLSI Design	PHY434	Credit hours (3,1)
5	Electronics-I	EEE231	Credit hours (3,1)
6	Electronics II	EEE232	Credit hours (3,1)
7	Digital Logic Design	EEE241	Credit hours (3,1)
8	Introduction to IS & IT	IT101	Credit hours (3,0)
9	Operating Systems	IT241	Credit hours (3,0)
10	Numerical Analysis	MATH411	Credit hours (3,0)
11	Electronics	CS222	Credit hours (3,1)
12	Advanced Digital Logic Design	--	Credit hours (3,0)
13	Microelectronics	PHY425	Credit hours (3,0)
14	Industrial Automation	PHY461	Credit hours (3,0)
15	Control Systems	EEE342	Credit hours (3,0)
16	Discrete Mathematics	MATH301	Credit hours (3,0)
17	Signal and Systems	EEE223	Credit hours (3,0)
18	Digital Signal Processing.	EEE342	Credit hours (3,1)
19	Computer Organization,	IT110	Credit hours (3,0)
20	Introduction Database	IT244	Credit hours (3,0)
21	Introduction to Statistics & Probability Theory	STAT 207	Credit hours (3,0)

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1			
2			

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	

2	

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
	Discrete Mathematics (MATH301)	Yes		Yes		2019	2020

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Undergraduate	5	2019	2020
2	Undergraduate	6	2020	2021

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	BS Computer Science	Eye Segmentation in Human Face Images	Imam Abdulrahman Bin Faisal University	2020

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization

Committee Membership

#	From	To	Position	Organization
1	2020	2021	Member of Scientific Research Unit	Imam Abdulrahman Bin Faisal University
2	2020	2021	Member of Strategic Planning Unit	Imam Abdulrahman Bin Faisal University
3	2020	2021	Member of Program Quality Unit	Imam Abdulrahman Bin Faisal University
4	2019	2020	Member of COOP	Imam Abdulrahman Bin Faisal University
5	2019	2020	Convenor of Postgraduate Unit	Imam Abdulrahman Bin Faisal University

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
1				
2				

Volunteer Work

#	From	To	Type of Volunteer	Organization

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Embedded Systems
2	Digital and Analog Electronics
3	Image and Digital Signal Processing
4	IoT
5	Biometrics (Iris)

Last Update

22/2/2021