



Ibrahim Abdulrahman Aljamaan

Assistant Professor

Personal Data:

Department | Head of the Environmental Engineering & Assistant professor at the Biomedical Engineering.

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Academic Qualifications:

Date	Academic Degree	Place of Issue	Address
06/2016	PhD in Electrical Engineering (Control Systems).	University of Calgary.	Canada.
08/2011	MSc in Electrical Engineering (Control Systems).	University of Calgary.	Canada.
06/2005	B.S. in System Engineering (Instrumentation and Control).	King Fahd University of Petroleum and Minerals (KFUPM).	Saudi Arabia.

Professional Record:

Job Rank	Place and Address of Work			Date
Assistant Professor	Imam Abdulrahman Bin Faisal University.	Dammam, Saudi Arabia.	01/2017	Now
Project engineer	Invensys (Triconex).	Alkhobar, Saudi Arabia.	12/2005	04/2008
Instrument Engineer	PI-Consult.	Alkhobar, Saudi Arabia.	09/2005	12/2005

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

PhD	Nonlinear Closed-Loop System Identification In The Presence Of Non-stationary Noise Sources.
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Master	Nonlinear Identification of Two Different Closed-Loop Models Using Separable Least Squares Methods.
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Administrative Positions Held:

Administrative Position	Office	Date
Environmental Engineering Department Heead.	Environmental Engineering Department.	2021-present
General Manager.	The experties house (Integrated Environmental Solutions and Consultance Office).	2021-present
General Manager.	The experties house (University Pioneer Consultants for Integrated Engineering Solutions).	2020-present
Vice Dean Of Academic Affairs.	College of Engineering.	2017-2019

Scientific Achievements

Published Refereed Scientific Research

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Maryam T. Almousa and Ibrahim A. Aljamaan	Patient-centered interventions to enhance peritoneal dialysis utilization in Saudi Arabia	Saudi Medical Journal: 1 July 2025.
2	Saleh I Alzahrani, Wael MS Yafooz, Ibrahim A Aljamaan , Ali Alwaleedi, Mohammed Al-Hariri, and Gameel Saleh	AI-driven health analysis for emerging respiratory diseases: A case study of Yemen patients using COVID-19 data	Mathematical biosciences and engineering: MBE. 24 February 2025.
3	I. Aljamaan and Ahmed Alenany	Identification of Wiener Box-Jenkins Model for Anesthesia Using Particle Swarm Optimization	Applied Sciences. 10 May, 2022
4	Ibrahim A. Aljamaan and Ibraheem Alnaib.	Prediction of Blood Glucose Level Using Nonlinear System Identification Approach	IEEE Access. 30 Dec. 2021
5	Ibrahim A. Aljamaan , Mujahed M. Al-Dhaifallah and David T. Westwick.	Hammerstein Box-Jenkins System Identification of	Hindawi, Mathematical Problems in Engineering, 28 February 2021.



		the Cascaded Tanks Benchmark System	
6	S.I. Alzahrani, I. A. Aljamaan and E.A. Al-Fakih	Forecasting the spread of the COVID-19 pandemic in Saudi Arabia using ARIMA prediction model under current public health interventions	Journal of infection and public health, 1 July 2020.

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Amna M. Anis, Dana W. Al-Jalal, Dana H. Al-Khowaiter, Alanoud A. Al-Saeed, and Ibrahim A. Aljamaan	Smart Wearable Device for Monitoring Pediatric Chronic Kidney Disease Patients	The 20th IEEE International Multi-Conference on Systems, Signals and Devices SSD Conference, February 2025.
2	Farooq H Dandal, Mohammed M AL-Qahtani, Mohammed A AL-Harbi, Ehab S Alessa, Ibrahim Aljamaan , and Gameel Saleh	Aerobic Athletes Tracking System Using Smart Glove for Physiological and Kinematic Monitoring	The 2024 International Conference on Engineering and Emerging Technologies (ICEET), IEEE, December 2024.
1	Ibrahim A. Aljamaan , Amjad M. Amtealeq, Ayman M. Aljumaia, Mohammed A. Hashim and Mohammed Y. bin Alshaikh.	Prototype of Automated Specimens System	The 20th IEEE International Multi-Conference on Systems, Signals and Devices SSD Conference, July 2023.
2	Ibrahim A. Aljamaan.	Nonlinear System identification of Cortical Response in EEG Elicits by Wrist Manipulation.	The 17th International Multi-Conference on Systems, Signals & Devices (SSD), July 2020.
3	Njood Alzuabi, Maysam Alfaddagh, Galyah Alhamid, Ghadah AlHamad and Ibrahim A. Aljamaan.	Continuous Non-Invasive Blood Pressure Monitoring Device.	The 8th International Conference on Modeling Simulation and Applied Optimization (ICMSAO), April 2019.



4	I. Aljamaan , D. Westwick, and M. Foley.	Identification of Wiener Models in the Presence of ARIMA Process.	The 11th IFAC Symposium on Dynamics and Control of Process Systems , including Biosystems, June 2016.
5	I. Aljamaan , D. Westwick, and M. Foley.	Non-linear closed-loop identification of CSTR in the presence of nonstationary disturbances.	The 17th IFAC Symposium on System Identification, SYSID, 2015.
6	I. Aljamaan , D. Westwick, and M. Foley.	Prediction Error Identification of Hammerstein Models in the Presence of ARIMA Disturbances.	The IEEE MultiConference on Systems and Control (MSC), 2014.
7	I. Aljamaan , D. Westwick, and M. Foley.	Non-Iterative Identification of IIR Wiener Systems with NonInvertible Nonlinities.	The IFAC World Congress Conference, 2014.
8	I. Aljamaan , D. Westwick, and M. Foley.	Non-Iterative Identification of IIR Wiener Systems with NonInvertible Nonlinities.	The IFAC International Workshop on Adaptation and Learning in Control and Signal Processing, July 2013.
9	I. Aljamaan , A. Bubbait, D. Westwick.	Separable Least Squares Identification of Wiener Box-Jenkins Models.	The 18'th IFAC Triennial World Congress, 2011.

Current Projects:

#	Research Title	Name of Investigator(s) Extent of Contribution
1	Design and implementation of economical Automated Peritoneal Dialysis Machine	Ibrahim Aljamaan , Sajid Ali Khan Zada, Abdullah K. Al-Hwiesh, Saleh Ibrahim Alzahrani, Gameel Saleh Mohammed and Ibraheem Alnaib.
2	Development of novel non-invasive systems for the characterization of the blood glucose levels.	Ibraheem Al-Naib, Murad Althobaiti, Mahbubunnabi Tamal, Ibrahim Aljamaan , Gameel Saleh, Ijlal Ateeq, Maha Alshammari, and Bushra Alsunaidi
3	Robotic Arm Control Using Artificial Intelligent Techniques	Ibrahim Aljamaan and Kamran Hameed.



4	An integrated approach with in vivo molecular imaging and machine learning to characterize tissue microenvironment for accurate diagnosis and prognosis of infection, inflammation and cancer.	Mahbubunnabi Tamal, Ibrahim Aljamaan , Ibraheem Al-Naib, Gameel Saleh, Christopher J Cawthorne, Rafidah Zainon, Ibrahim Al-Jammaz and Ahmed Maarouf.
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Membership of Scientific and Professional Societies and Organizations

- IEEE
- ISA

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Control Systems for BME.	BIOEN 541	Lecturer
2	Biomedical Digital Signal Processing.	BIOEN 513	Lecturer
3	Biomedical Instrumentation Design.	BIOEN 432	Lecturer
4	Digital Design.	ENG 451	Lecturer
5	Technical Writing.	ENG 401	Lecturer
6	Electronics Devices and circuits.	ENG 322	Lecturer
7	Environmental Impact Assessment EIA	ENVEN 503	Lecturer
8	Seminar I (Master course)	BMEN 695	Lecturer
9	Applied Probability and statistics for Engineers (Master course)	BMEN 602	Lecturer

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	From	To
1	BIOEN 531: Senior Design Project-I.	Coordination	Co-coordination	Undergrad.	2017	present
2	BIOEN 532: Senior Design Project-II.	Coordination	Co-coordination	Undergrad.	2018	present
3	ENVEN 521: Senior Design Project I.	Coordination	Co-coordination	Undergrad.	2019	Present



4	ENVEN 522: Senior Design Project II.	Coordination	Co-coordination	Undergrad.	2020	Present
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Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Undergraduate	50	2017	present
2	Master	2	2023	Present

Administrative Responsibilities, Committee and Community Service

Administrative Responsibilities

#	From	To	Position	Organization
1	2017	2019	Head of the Engineering Students club	IAU
2	2022	Present	Head of the community service committee at the Biomedical Engineering Department.	IAU

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

1	MATLAB
2	C++
3	LabView



Last Update

15/07/2025