



## Faculty Full Name: Gameel Saleh Mohammed Saleh



### POSITION

Assistant Professor

### Personal Data

Nationality | Yemen

Date of Birth | 15.03.1975

Department | Biomedical Engineering

Official IAU Email | gsmohammed@iau.edu.sa

Office Phone No.

### Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
German	Excellent	Excellent	Excellent

### Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2013	PhD	Germany	University of Duisburg-Essen - NRW
2008	M.Sc.	Jordan	Jordan University of Science and Technology (JUST) - Irbid
2001	B.Sc.	Yemen	Aden University

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

<b>PhD</b>	Metamaterial for Ultrahigh field Magnetic Resonance Imaging (MRI) Applications
<b>Master</b>	Power Control and Beamforming Systems using Particle Swarm Optimization

### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Assistant Prof.	Imam Abdulrahman Bin Faisal University	Dammam	Saudi Arabia	2015- present
Assistant Prof.	Aden University	Aden	Yemen	2013-2015
Lecturer	Aden University	Aden	Yemen	2008-2009
Teaching Assistant	Aden University	Aden	Yemen	2002-2015
Network Switching System (NSS) Engineer	Spacetel-Yemen Company	Aden	Yemen	2001-2002



## Scientific Achievements

### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1.	<b>G. Saleh</b> et al	Design of non-invasive glucose meter using near-infrared technique	Journal of Medical Engineering and Technology, Taylor and Francis, UK, first published: 07 March 2018
2.	<b>G. Saleh</b> et al	Effects of tissues and geometric shapes of phantoms on the specific energy absorption rate	International journal of RF and microwave computer-aided engineering, WoS indexed, Wiley son, US, first published: 25 January 2018
3.	Adel Y I. Ashap, Z.Z. Abidin, SH, H. A. Majid, S.K. Yee, <b>Gameel Saleh</b> , Norun Abdul Malek	Flexible Wearable Antenna on Electromagnetic Band Gap using PDMS substrate	TELKOMNIKA journal paper (Telecommunication, Computing, Electronics and Control) – Sep. 2017
4.	Al afif, H; Al swiket, W; Al alawi, M.; Al Rabie, Z.; Alshafei, F.; Ateeq, I.; <b>Saleh, G.</b>	Wireless Blood Pressure Self-monitoring System	International conference on Radiation Medicine (ICRM 2018), Riyadh, Saudi Arabia, 11-15. Feb. 2018.
5.	Alzahrani, W.; Alabdullah, B.; Alghamdi, S.; Alshuwayer, R. ; Almuhsin, S.; <b>Saleh, G.</b> ; Ateeq, I.	Design of Flexible Textile Wearable Antennas for Telemedicine Applications	International conference on Radiation Medicine (ICRM 2018), Riyadh, Saudi Arabia, 11-15. Feb. 2018.
6.	Alashban, N; Sibaii, F; Alkhateeb, H; Hegazi, F; Hegazi, M; <b>Saleh, G</b>	The Enhanced Meander Dipole Radiofrequency Coil for 7 Tesla Magnetic Resonance Imaging Machines	International conference on Radiation Medicine (ICRM 2018), Riyadh, Saudi Arabia, 11-15. Feb. 2018.
7.	<b>Saleh, G.</b>	Artificial Ground Planes for Magnetic Resonance Coils.	Lambert Academic Publishing, 11. August 2014.
8.	<b>Saleh, G.</b> ; Touati, F.; Erni, D.; Solbach, K.	Artificial Ground Plane for Magnetic Resonance Coils to Reduce The Energy Specific Absorption Rate.	QF-ARC'14, Doha, Qatar, Volume: 1, 2014
9.	<b>Saleh, G.</b> ; Solbach, K.; Rennings, A; Erni, D.	SOFT Surfaces to Improve The H/E Field Ratio of Stripline Coil for 7Tesla MRI	<i>ISMRM2013</i> , Salt Lake City, Utah, USA, 20-26 April 2013.



10.	<b>Saleh, G.</b> ; Solbach, K.; Rennings, A.; Erni, D.	Four-Leaf-Clover-Shaped EBG Structure to Improve The H/E Field Ratio of Stripline Coil for 7Tesla MRI.	<i>EuCAP2013</i> , Gothenburg, <b>Sweden</b> , 8-12 April 2013.
11.	<b>Saleh, G.</b> ; Solbach, K.; Rennings, A.	SAR Reduction for Dipole RF Coil Element At 7 Tesla by using Dielectric Overlay,	<i>LAPC2012</i> , Loughborough, England-UK, Nov. 2012.
12.	<b>Saleh, G.</b> ; Solbach, K.; Rennings, A.	EBG Structure to Improve the B1 Efficiency of Stripline Coil for 7 Tesla MRI	<i>EuCAP2012</i> , Prague, <b>Czech Republic</b> , March. 2012.
13.	<b>Saleh, G.</b> ; Solbach, K.; Rennings, A.	EBG Structure for Low Frequency Applications	<i>GeMiC 2012</i> , Illmenau, <b>Germany</b> , Feb. 2012
14.	<b>Saleh, G.</b> , M. Khodier	“Joint Beamforming and Power Control for Interference Reduction in Wireless Communications using Particle Swarm Optimization,”	<i>Int.Journal of Electronics and Communications AEU</i> , <b>Germany</b> . 2010.
15.	<b>Saleh, G.</b> ; M. Khodier.	M, “Radio Resource Management – Interference Reduction using PSO”.	2 <sup>nd</sup> Engineering conf. in Aden University, 2008.

#### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Supported by Deanship of Scientific Research, IAU university, under the grant (2017-268-Eng)	Radio Frequency Safety against Electromagnetic Field Exposure in Magnetic Resonance Imaging	2017
2	Supported by DFG-Germany	Electromagnetic Band Gap Structures for MRI Applications.	2013

#### Membership of Scientific and Professional Societies and Organizations

- *Member, IEEE.*
- Member, ESMRMB, the European Society for Magnetic resonance in Medicine and Biology.

#### Teaching Activities

##### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Imaging Techniques	MP-527 (Master Course Level)	15 lectures, 15 Lab sessions and Site visits
2	MRI	BIOEN 573	15 lectures, 15 Lab sessions
3	Signals and Systems in BME	BIOEN 461	15 Lectures, 15 Lab sessions



4	Electrical Circuits	ENG 331	15 lectures, 15 Lab sessions
5	Electromagnetics	AU Course	15 lectures, 15 Lab sessions
6	Electronic Devices and Circuits	AU Course	15 lectures, 15 Lab sessions

#### Brief Description of Undergraduate Courses Taught in IAU: (Course Title – Code: Description)

1	<b>MRI-BIOEN 573:</b> Introduces physics of magnetic resonance. Principles and technological implementation of MRI. Image formation, acquisition and processing – Hardware/Instrumentation – Functional MRI – Included are special applications in some contemporary issues like RF safety aspects.
2	<b>Signals and Systems in BME – BIOEN 461:</b> This course serves to introduce the students to fundamentals of signal and systems analysis and manipulation and their application in the medical field. This course also reinforces mathematical knowledge in differential calculus and adding universal quantitative analysis tools such as Fourier analysis. The course topics include: Laplace transforms, Fourier (series & integral) transforms, convolution and the response of linear systems, frequency response, Bode diagrams and Polar Plots. Sampling, Discrete-time signals; frequency analysis of discrete-time signals, spectral estimation, data records and digital filters; and compression of <i>biomedical signals</i> through time-domain and frequency domain coding. Includes laboratory and computational experiences with biomedical applications.
3	<b>Electrical Circuits - ENG 331:</b> Electronic Device & Circuits cover a wide range of topics including, Introduction to Semiconductors, Diode Circuits, Bipolar junction Transistor, Transistor Bias Circuits, Bipolar Junction Transistor Amplifier, Field Effect Transistor, Multistage Amplifier, Differential Amplifier and Frequency response .

#### Guest/Selected invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
1	Seminar speaker	Power Control and Transmit Beamforming using PSO	Aachen University - Germany	2008
2	Seminar speaker	Power Control and Transmit Beamforming using PSO	Ilmenau University of Technology	2009

#### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
1	5 <sup>th</sup> year – group 1	4	2017	2018
2	5 <sup>th</sup> year – group 2	4	2017	2018
2	5 <sup>th</sup> year – group 1	4	2016	2017
2	5 <sup>th</sup> year – group 2	4	2016	2017
2	5 <sup>th</sup> year	5	2015	2016

#### Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	Bachelor	Wearable Antenna for Biomedical Applications	IAU University	2017 - 2018
2	Bachelor	Non-invasive Blood Glucose Level Monitoring	IAU University	2016-2017
3	Bachelor	RF Coils for Ultrahigh Field MRI	IAU University	2015-2016



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

Committee Membership

#	From	To	Position	Organization
1	2017	Present	PMO College Coordinator	University PMO
2	2017	Present	Member	College Development Program Committee
3	2017	Present	Member	Irregular Students Committee
4	2017	Present	Member	Curriculum Committee
5	2016	Present	Head	ABET Internal Review Committee
6	2016	Present	Member	Department, Quality Committee.
7	2016	2016	Member	College, Alumni Committee
8	2015	2016	Member	College, ABET Accreditation Technical Committee.
9	2015	2016	Member	College, Higher Education and Scientific Research Committee.

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2001	2005	To serve the community	Struggling Kat organization – Aden
2	2017	Present	Supervision of two projects, that will contribute in the ministry of education award "Innovation/IBDAA Competition"	AlHusan Secondary Schools - Dammam

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

1	Microwave Studio MW-CST
2	HFSS
3	EMPIRE XCcel
4	Matlab, C++, and LabVIEW
5	Microsoft Office

Recent attended workshops/trainings/seminars

1	<p><b>"LabVIEW Core I Course"</b> <b>"LabVIEW Core II Course"</b> Organized by National Instrument (NI) comp., at KFUPM university, Dhahran Technology Valley (Sunday 1<sup>st</sup> October to Thursday 5<sup>th</sup> October 2017)</p>
2	<p><b>"Assessment of Learning Outcomes" NCAAA Workshop</b> Organized NCAAA – (08-09/10/2017)</p>
3	<p><b>"Self-Study Report" NCAAA Workshop</b> Organized by NCAAA – (15-16/10/2017)</p>

Last Update

20/02/2018