

## Dr. Abdullah Biran

Assistant Professor



### Personal Data:

Nationality | Saudi  
Date of Hire | 26-07-2023  
Date Rank Obtained | 20-04-2023  
Department | Biomedical Engineering  
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### Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Biomedical Engineering	-	Canada	McMaster University, Canada	2023-4-20
Masters (M.Sc.)	Electrical Engineering	-	Canada	Ryerson University, Canada	2017-06-15
Bachelor (B.Sc.)	Biomedical Engineering	-	Saudi Arabia	King Abdulaziz University, Jeddah	2012-06-23

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

PhD	BIOMETRIC IDENTIFICATION USING ELECTROCARDIOGRAM AND TIME FREQUENCY FEATURE MATCHING
Master	Automatic detection and classification of diabetic retinopathy from retinal fundus images

### Experiences:

Title of Job	Address of Work	Country	Date	
			From	To
Assistant Professor	King Faisal University	Saudi Arabia	From	July 2023
			To	Currently
Teaching Assistant	King Faisal University	Saudi Arabia	From	2015
			To	February 2017
Teaching Assistant	Toronto Metropolitan University y	Canada	From	December 2017
			To	December 2017
Summer Training Program	Gulf Medical Company	Saudi Arabia	From	July 2011
			To	August 2011
Summer Training Program	Saudi Aramco	Saudi Arabia	From	July 2010
			To	August 2010

### Research Interests:

1. Bio identification using Biomedical Signals
2. Biomedical Data Processing
3. Biomedical Instrumentation and applications
4. Application of Machine learning in Biomedicine

### Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Abdullah Biran, Aleksandar Jeremic	The Feasibility of Human Identification from Multiple ECGs using Maximal Overlap Discrete Wavelet Transform (MODWT) and Weighted Majority Voting Method (WMVM).	Digital Medicine and Health Care Technology. 2023	<a href="#">Click Here</a>
2	Abdullah Biran, Aleksandar Jeremic	ECG bio-identification using Frechet classifiers: A proposed methodology based on modeling the dynamic change of the ECG features.	Biomedical Signal Processing and Control. 2023	<a href="#">Click Here</a>
3	Abdullah Biran, Aleksandar Jeremic	Automatic QRS Detection and Segmentation Using Short Time Fourier Transform and Feature Fusion	33rd IEEE Canadian Conference on Electrical and Computer Engineering.	<a href="#">Click Here</a>
4	Abdullah Biran, Aleksandar Jeremic	Non-Segmented ECG bio-identification using Short Time Fourier Transform and Fréchet Mean Distance	42nd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)	<a href="#">Click Here</a>
5	Abdullah Biran Pooya Sobhe Bidari Ahmed Almazroa Vasudevan Lakshminarayanan Kaamran Raahemifar	Blood vessels extraction from retinal images using combined 2D Gabor wavelet transform with local entropy thresholding and alternative sequential filter	29 <sup>th</sup> IEEE Canadian Conference on Electrical and Computer Engineering	<a href="#">Click Here</a>
6	Abdullah Biran Pooya Sobhe Bidari Ahmed Almazroa Vasudevan Lakshminarayanan Kaamran Raahemifar	Automatic Detection and Classification of Diabetic Retinopathy Using Retinal Fundus Images	World Academy of Science, Engineering and Technology,	<a href="#">Click Here</a>

### Language Proficiency:

1. Arabic
2. English