

**1 Name & Rank:** Abbas A. Fairouz, Assistant Professor

## 2 Education

Degree	Discipline	Institution	Year
Ph.D.	Computer Engineering	Texas A&M University, College Station, TX, USA.	2019
M.S.	Computer Engineering	Kuwait University, Kuwait.	2011
B.S.	Computer Engineering	Kuwait University, Kuwait.	2006

## 3 Academic Experience

Institution	Designation	Year/Period	FT/PT
Kuwait University Computer Engineering Department	Assistant Professor	2019- Present	FT
College of Engineering & Petroleum Kuwait University	Assistant Professor	2019 - Present	FT
Department of Electrical & Computer Engineering Texas A&M University, College Station, TX, USA.	Research Assistant	2014 –2019	FT
Computer Department The Public Authority for Applied Education & Training, Kuwait	Computer Teacher	2008 –2010	PT

## 4 Non-Academic Experience:

Institution	Designation	Year/Period
Computer Department Ministry of Electricity & Water, Subhan, Kuwait	Head of Computer Department	2012 – 2014
Computer Department Ministry of Electricity & Water, Subhan, Kuwait	Senior Computer Engineer	2009 – 2012
Computer Department Ministry of Electricity & Water, Subhan, Kuwait	Junior Computer Engineer	2006 – 2009

## 5 Certifications / professional registrations:

## 6 Membership in Professional Organization:

Name	Membership	Year/Period
Institute of Electrical and Electronics Engineers (IEEE)	Member	Sept 2016 – present
IEEE Computer Society	Member	Feb 2017 – present
Association for Computer Machinery (ACM)	Member	Feb 2017 – present

## 7 Honors and Awards:

Details	Year
KFAS (The Kuwait Foundation for the Advancement of Sciences) travel grant for the Great Lakes Symposium on VLSI (GLSVLSI) conference 2017	April 2017
KFAS (The Kuwait Foundation for the Advancement of Sciences) travel grant for the 34th IEEE International Conference on Computer Design	Oct 2016
KFAS (The Kuwait Foundation for the Advancement of Sciences) travel grant for ICSAP: 3rd International Conference on Signal Acquisition and Processing	Feb 2011
Kuwait's President award for student honors	April 2012
1st of class 2011 in MS of Computer Engineering	Oct 2011
3rd place in Computer Engineering projects competition - ACM, Kuwait University	April 2005

## 8 Service Activities:

Academic Activities					
Institution	Course No.	Course name	Details	Level	Year
Kuwait University	CpE-364	Intro. to Embedded Systems Lab	Lab experiments preparation	Undergraduate	2021/2022
Texas A&M University	ECEN-248	Intro. to Digital Design	Lab experiments preparation	Undergraduate	2018
Texas A&M University	ECEN-449	Microprocessor System Design	Lab experiments preparation	Undergraduate	2018

Professional Activities		
Designation	Details	Year/Period
Acting Chairman of CpE	Acting Chairman of Computer Engineering Department, College of Engineering & Petroleum, Kuwait University	Aug 21 – Sept 17, 2022
Kuwait University AI & Robotics Society Advisor	AI & Robotics Summer Camps, Workshops, and Training Courses, Computer Engineering Department, Kuwait University	Jun 19 – Aug 11, 2022
Team Advisor	The 6 <sup>th</sup> Institution of Engineering and Technology (IET) GCC Robotics Challenge	Mar 26, 2022
Judge	The International Invention Fair of the Middle East (IIFME) that was held in Kuwait with the sponsorship from Kuwait Science Club	2020, 2022, 2023, 2024
Judge	The Kuwait Science and Engineering Competition with the sponsorship from Kuwait Science Club	2021, 2022, 2023, 2024

## 9 Publications and Presentations (from past five years):

Journal	
No.	Information
1.	"Agriculture Monitoring System Using Machine Learning" H. AlFaisal, A. Fairouz, A. Mohammad, J. AlJuraidan. (on going).
2.	"Auto-labeling model based on YOLO" S. AlMutairi, J. AlJuraidan, A. Fairouz, A. Mohammad. (on going).
3.	"Competition Sort Algorithm (CSA): A Sorting Network Framework for Hardware Accelerators" A. Fairouz, J. AlJuraidan, A. Mohammad. Submitted to the IEEE Transactions on Computers.
4.	"TinyBERT for Branch Prediction in Modern Microprocessors" A. AlAjmi, B. AlSarraf, Z. Abualhassan, A. Fairouz, I. Ahmad. Accepted for publication to Neural Computing and Applications Journal, Springer Nature.
5.	"POSIT vs. Floating Point in Implementing IIR Notch Filter by Enhancing Radix-4 Modified Booth Multiplier" A. Esmaeel, S. Abed, B. Mohd, A. Fairouz. Electronics 2022, 11, 163.
6.	"Hardware Acceleration of Hash Operations in Modern Microprocessors," A. Fairouz, M. Abusultan, S. Fedorov and S. P. Khatri, in <i>IEEE Transactions on Computers</i> , July, 2020, doi: 10.1109/TC.2020.3010855.

## 10 Recent Professional Development Activities: