

AHMED S. BALAMESH

Assistant Professor, Department of Electrical and Computer Engineering, King Abdulaziz University

Education

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Electrical Engineering: Systems	University of Michigan, Ann Arbor, USA.	1993
MS	Electrical Engineering: Systems	University of Michigan, Ann Arbor, USA.	1989
BS	Electrical Engineering (Electronics & Communications)	King Abdulaziz University, Jeddah, Saudi Arabia	1986

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
1993	Date	King Abdulaziz University	Assistant Professor		Full Time

Non-Academic Experience (Including Consultations)**Funded Research Projects and Patents From The Last Five Years**

1. S. A. Alzaidi and A. S. Balamesh, "Collimator for backscattered radiation imaging and method of using the same," U.S. Patent US 8976936 B1, issued Mar 10, 2015.

Certifications and Professional Registrations**Current Membership in Professional Societies and Organizations**

	<i>Society/Organization</i>	<i>Rank</i>	<i>Since</i>
i.	IEEE	Member	1988
ii.	IEEE Communication Society	Member	1988
iii.	IEEE Information Theory Society	Member	1988

Honors and Awards

1. Dean Medal for the highest GPA in the Faculty of Engineering up to 1986.
2. Ranked first over all King Abdulaziz University graduates in 1986.

Institutional and Professional Services

1. Deputy Director, Educational Affairs, College of Engineering (1996-1997).
2. Director, Educational Affairs, College of Engineering (1997-1998).
3. Vice Dean of Admission and Registration for Administrative Affairs and Information (1998-2001).
4. Head of the team in charge of the development of the IT infra structure of the university (2000-2001).
5. Member of Electronic Services Committee (Deanship of Admission Affairs) (2004-2009).
6. Member of Committee for Development of Communications in University (2005-2008).
7. Consultant for Deanship of Admission Affairs for Development (2006-2009).
8. Member of Committee for Development of Security and Building Automation Systems in University (2007-2008).
9. Member of Committee for Development of Security and Building Automation Systems in Uuniversity (2007-2008).
10. Member of the Department Accreditation Committee (2006-2012).
11. Member of the Department Senior Project Committee (2008-2011).
12. Member of the College Curriculum Committee (2012-2014).
13. Deputy Chairman, ECE Accreditation Committee (2013-2016)

Principal Publications/Presentations from the Past Five Years

1. K. Daqrouq, R. Alhmouz, A. Balamesh and A. Memic, "Application of Wavelet Transform for PDZ Domain Classification," *PLoS One*, vol. 10, no. 4, 2015.
2. K. Daqrouq, H. Sweidan, A. Balamesh and M. N. Ajour, "Off-Line Handwritten Signature Recognition by Wavelet Entropy and Neural Network," *Entropy*, vol. 19, no. 6, 252, 2017.
3. A. Balamesh, M. Salloum and S. Abdul-Majid, "Feasibility of a New Moving Collimator for Industrial Backscatter Imaging," *Research in Nondestructive Evaluation*, 2017.
4. A. M. Rushdi and A. S. Balamesh, "On the Relation between Boolean Curve Fitting and the Inverse Problem of Boolean Algebra," *JKAU: Eng. Sci*, vol. 28, no. 2, pp. 3-9, 2017.
5. A. M. A. Rushdi and A. S. Balamesh, "Boolean Curve Fitting with the Aid of Variable-Entered Karnaugh Maps," *International Journal of Mathematical, Engineering and Management Sciences*, vol. 4, no. 6, pp. 1287-1306, 2019.
6. K. Daqrouq, et al, "The Use of Arabic Vowels to Model the Pathological Effect of Influenza Disease by Wavelets," *Computational and Mathematical Methods in Medicine*, 2019.
7. A. S. Balamesh and Ali. M. Rushdi, "Solution of Boolean Equations via Atomic Decomposition into Independent Switching Equations," *International Journal of Computer Mathematics: Computer Systems Theory*, vol. 4, no. 3-4, pp. 185-203, 2019.
8. K. Daqrouq, et al, "The Effect of 'Why' Statement on Decreasing the Resistance in Engineering Education," *Asian Journal of Education and Social Studies*, vol. 5, no. 4, pp. 1-7, 2019.

Recent Professional Development Activities (Workshops, Trainings etc.)