

DR. ABDULLAH M. ABUSORRAH*Assistant Professor, Dept. of Electrical and Computer Eng., King Abdulaziz University***Education**

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Electrical and Electronic Engineering	University of Nottingham, UK	2007
MS	Electrical Engineering (Power Machines)	&King Abdulaziz University, Jeddah, Saudi Arabia	2002
BS	Electrical Engineering (Power Machines)	&King Abdulaziz University, Jeddah, Saudi Arabia	1994

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Full or Coordinator, etc.)</i>	<i>Part Time</i>
1994	2002	Jeddah College of Technology	Lecturer		Full Time
2007	2010	Jeddah College of Technology	Assistant Professor	Head of the Electrical Technology Department	Full Time
2011	Date	King Abdulaziz Univ.	Assistant Professor		Full Time

Non Academic Experience (including Consultations)

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position (Brief)</i>	<i>Description</i>	<i>Full or Part Time</i>
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Funded Research Projects and Patents from the Past Five Years

1. Next-Generation Electric Power System Expansion Planning (Funded By King Abdulaziz University)
2. Ensuring Low Current Ripple In Power Converters for Renewable Energy and High Performance Applications (Funded By King Abdulaziz University)
3. Computational Research on Design, Simulation and Optimization of a Solar Concentrating System (Funded By King Abdulaziz University)
4. EGTran: Integrated Model of Electric Power and Natural Gas Transmission Systems for Enhancing The Infrastructure Security In Saudi Arabia (Funded By King Abdulaziz City for Science and Technology (KACST))
5. Investigation Into The Stability of Complex Power Electronic Converters In Renewable Energy Applications (Funded By King Abdulaziz University)
6. A Genetic Based Fuzzy Controller for Optimal Power Flow (Funded By King Abdulaziz University)

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

<i>Society/Organization</i>	<i>Rank</i>	<i>Member Since</i>
1. IEEE	Member	2008
2. World Scientific and Eng. Academy and Soc. (WSEAS).	Member	2009

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| 3. Saudi Council of Engineers, KSA | Member | 2008 |
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Honors and Awards

Institutional and Professional Services (*administration, committees, units, etc.*)

1. Unit Manager of The Distinguished Scholars Projects At King Abdulaziz University
2. Manager of The Awards Unit In The Deanship of Scientific Research, King Abdulaziz University
3. Coordinator of The Renewable Energy Research Group At King Abdulaziz University

Principal Publications/Presentations from the Past Five Years

1. Mark Sumner, Abdullah Abusorrah, David Thomas and Pericle Zanchetta, "Real Time Parameter Estimation for Power Quality Control and Intelligent Protection of Grid-Connected Power Electronic Converters," IEEE Transactions on Smart Grid, no. 99, Apr. 2014.
2. Abdullah Abusorrah, Mohammed Al-Hindawi, Yusuf Al-Turki, Kuntal Mandal, Damian Giaouris and Soumitro Banerjee, "Stability of the Boost Converter Fed From Photovoltaic Source," Solar Energy, Pergamon-Elsevier Science LTD, vol. 98, Part C, pp. 458–471, Dec. 2013.
3. Abdullah Abusorrah, "The Application of the Linear Adaptive Genetic Algorithm to Optimal Power Flow Problem" Accepted for Publication in the Arabian Journal for Science and Engineering, 2013.
4. K. Mandal, C. Chakraborty, A. Abusorrah, M. Al-Hindawi, Y. Al-Turki, S. Banerjee, "An Automated Algorithm for Stability Analysis of Hybrid Dynamical Systems," The European Physical Journal Special Topics 222 (3-4), pp. 757-768, 2013.
5. Abdullah Abusorrah, "Differential Evolution Algorithm for Voltage Stability Enhancement in Electric Power Systems," Life Science Journal, vol. 10, no. 3, Pp.2464-2469, Oct. 2013.
6. Damian Giaouris, Soumitro Banerjee, Fotis Stergiopoulos, Simira Papadopoulou, Spyros Voutetakis, Bashar Zahawi, Volker Picker, Abdullah Abusorrah, Mohammed Al Hindawi and Yusuf Al-Turki, "Foldings and Grazings of Tori in Current Controlled Interleaved Boost Converters," International Journal of Circuit Theory and Applications, Article ID:1906, 2013.
7. Abdullah Abusorrah, "Optimal Power Flow using Adaptive Fuzzy Logic Controllers," Mathematical Problems in Engineering, Hindawi Publishing Corporation, Article ID 975170, 2013.
8. Abdel-Fattah Attia, Yusuf A. Al-Turki and Abdullah M. Abusorrah, "Optimal Power Flow using Adapted Genetic Algorithm with Adjusting Population Size," Journal of Electric Power Components and Systems, vol. 40, no. 11, pp. 1285-1299, Aug. 2012.
9. Kuntal Mandal, Abdullah Abusorrah, Mohammed Al Hindawi, Yusuf Al Turk, Damian Giaourisy and Soumitro Banerjee, "Dynamical Analysis of Single-Inductor Dual-Output DC-DC Converters" International Symposium on Circuits & Systems (ISCAS) 2013 Beijing, China.

Recent Professional Development Activities (*Workshops, training, etc.*)