

Dr. Thamer Alquthami

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

Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Electrical Engineering	Georgia Institute of Technology	2015
MS	Electrical Engineering	Florida State University	2011
BS	Electrical Engineering	King Abdulaziz University	2005

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>
2007	2008	King Abdulaziz University	Demonstrator	Graduate Assistant	Full
2008	2011	Florida State University	Graduate Student	Research Assistant	Full
2011	2015	Georgia Institute of Technology	Graduate Student	Research Assistant	Full

Funded Research Projects and Patents from the Past Five Years

1. The Future of Florida Grid: Reliable and Resilient Electrical Energy Systems in a Changing Environment
2. Fault Analysis of Miami Florida Blackout
3. Transformer Saturation Parameters Estimation
4. The Electricity and Transportation Infrastructure Convergence using EVs
5. Future PMU: PMU Characterization
6. Cyber Security of an Electric Grid: Data Gathering

Certifications and Professional Registrations

- 1.
- 2.
- 3.
- 4.

Current Membership in Professional Societies and Organizations

<i>Society/organization</i>	<i>Rank</i>	<i>Member</i>
-----------------------------	-------------	---------------

1.	IEEE/IEEE Power & Energy	Graduate Student	Since 2008
2.	CIGRI	Graduate Student	2010

Honours and Awards

1. The Electrical and Computer Engineering Honor Society, Eta Kappa Nu
2. The Collage of Engineering Honor Society, Tau Beta Pi
- 3.
- 4.

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

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Principal Publications/Presentations from the Past Five Years

1. Alquthami, T.; Renke Huang; Polymeneas, E.; Meliopoulos, A.P., "Hierarchical optimization and control of a power system," Innovative Smart Grid Technologies Conference (ISGT), 2014 IEEE PES , vol., no., pp.1,5, 19-22 Feb.
2. Alquthami, T.; Meliopoulos, A.P., "Distribution transformer load management system," PES General Meeting | Conference & Exposition, 2014 IEEE , vol., no., pp.1,5, 27-31 July 2014
3. Alquthami, T.; Meliopoulos, A.P., "Hierarchical optimization and control of a distribution system," North American Power Symposium (NAPS), 2013 , vol., no., pp.1,6, 22-24 Sept. 2013
4. Peppanen, J.; Alquthami, T.; Molina, D.; Harley, R., "Optimal PMU placement with binary PSO," Energy Conversion Congress and Exposition (ECCE), 2012 IEEE , vol., no., pp.1475,1482, 15-20 Sept.
5. Alquthami, T.; Obaid, R.R., "An adaptive dynamic model of the western power grid of Saudi Arabia," Innovative Smart Grid Technologies - Middle East (ISGT Middle East), 2011 IEEE PES Conference on , vol., no., pp.1,6, 17-20 Dec.
- 6.
- 7.
- 8.

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

- 1.
- 2.
- 3.
- 4.