

CURRICULUM VITAE

Dr. Essam A. Al-Ammar

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Personal

Name: Essam Abdulaziz Al-Ammar

Occupation: Associate Professor, Electrical Engineering Department, King Saud University, Riyadh, Saudi Arabia

Nationality: Saudi

Academic Education

PhD. in Electrical Engineering, Aug., 2007, Arizona State University, Tempe, Arizona, USA.

Title of Ph.D. Thesis: "Development of novel techniques to improve fault detection sensitivity of transformer test during short circuits or transportation"

MSc. in Electrical Engineering, Aug. 2003, University of Alabama, Tuscaloosa, Alabama, USA.

Title of M.Sc. Thesis: "Computational analysis of AC-DC-FACTS load flow"

BSc. in Electrical Engineering, May. 1997, (Excellent with Honor Degree) King Saud University, Riyadh, Saudi Arabia

Title of the graduation project: "Modelling and simulation of the induced faults using EMTP"

Academic and Professional Experiences

Jan. 2012 – now: Associate Professor at Department of Electrical Engineering, Faculty of Engineering, King Saud University, Saudi Arabia.

June 2012 - now: Governor's Advisor at Electricity Co-Generation Regulatory Authority (ECRA).

Nov. 2008 – Jan 2015: Chair Coordinator and executive member in Saudi ARAMCO Chair in Electrical Power

Dec. 2008 – Oct. 2012: Part-time Advisor at Ministry of Water and Electricity.

Dec. 2009 – Oct. 2011: Energy Consultant at Riyadh Techno Valley.

Oct. 2009 – Feb. 2011: Member of evaluation of environmental considerations for electric grid in Arab states – Arabic League.

Aug. 2007 – Jan. 2012: Assistant Professor at Department of Electrical Engineering, Faculty of Engineering, King Saud University, Saudi Arabia.

Aug. 2003 – Aug. 2007: Research Assistant at Arizona State University, Tempe, Arizona, USA.

Aug. 2003 – Aug. 2007: Teacher Assistant at Arizona State University, Tempe, Arizona, USA.

Aug. 2001 – Aug. 2003: Research Assistant at University of Alabama, Tuscaloosa, Alabama, USA.

Sep. 1999 – Dec. 2000: Demonstrator of Electrical Engineering Department, Faculty of Engineering, King Saud University, Riyadh, Saudi Arabia

Aug. 1997 – Sep. 1999: Power/Software Engineer in Lucent Technology Company, Riyadh, Saudi Arabia.

June 1996- Sep. 1996: Training Course in Saudi Ojeh Company, Riyadh, Saudi Arabia.

June 1995- Sep. 1995: Training Course in Saudi Electric Company, Riyadh, Saudi Arabia.

Awards

- King Saud University Graduate Scholarship to University of Alabama, Tuscaloosa, Alabama, USA, for MSc, Aug. 2001 – Aug 2003.
- King Saud University Graduate Scholarship to Arizona State University, Tempe, Arizona, USA, for PhD, Aug. 2003 – Aug 2007.

Research and Teaching Experiences

- Smart Grid
- Power System Analysis
- Energy Conversion
- Renewable Energy
- Energy Efficiency
- High Voltage Engineering
- Electric Conservation Systems
- Power System Infrastructure, design and foundation
- Power System Transient
- Power system monitoring and Diagnostics
- FACTS "Flexible AC Transmission System"
- Computer simulations: Many software programs and computer languages
- Linear, nonlinear, digital, stochastic control system
- Expert in teaching many workshops in electric power system, power electronics, and protection and reliability, of power systems.

Attendance of Training Courses

- Training Course on UNIX language in Lucent Technology Company, Riyadh, Saudi Arabia, Aug. 21-27, 1998.
- Training Course on Teaching Assistant (TA) Technology, Jan., 2004, Arizona State University, Tempe, Arizona, USA.
- Short Courses on Fire Safety Aspects. "Feb., 2004, Mar. 2005, Feb. 2006, and Feb. 2007" Arizona State University, Tempe, Arizona, USA.
- Training Course on Teaching Technology, Nov., 2007 Faculty of Education, King Saud University, Riyadh, Saudi Arabia.

Professional Activities

- Senior Member in IEEE, Institute of Electrical and Electronics Engineers (IEEE), since Oct. 2001.
- Member in the Saudi Council of Engineers, since Oct. 1997.
- Member in World Society of Sustainable Energy Technologies (WSSET) since Oct. 2011.