Dr. Salem M Alshibani

Personal Information

- Nationality: Kuwaiti
- Date of Birth: 28-03-1974
- Email: sm.alshibani@paaet.edu.kw
- Mobile: +965 99 412 672
- Languages: Arabic and English fluently, reading and writing.

Education

May 1999 University of Hartford, Connecticut, USA

Bachelor of Science in Electrical Engineering

- GPA: 3.05 out of 4.00
- Concentration: Power and Communication.

Feb 2005 University of the West of England, Bristol, UK

MSc in Advanced Technologies in Electronics

- Award with Distinction
- Dissertation Title: *An Evaluation of the Use of Fuzzy Logic and Artificial Neural Networks as Failure Prediction Techniques for Underground Power Transmission Feeders.*

Nov 2014 University of New South Wales, Sydney, Australia

PhD in Electrical Engineering

- Thesis Title: Optimized Designs of MW Level Permanent Magnet Synchronous Generators.

Professional Experience

Oct 1999 - Jan 2006: **Cable Maintenance Engineer**.
Ministry of Electricity and Water, Electrical Transmission Networks, Underground Cables and Overhead Lines Maintenance Department.

Jan 2006 - Sep 2007: **Head of Cable Maintenance Section**
Ministry of Electricity and Water, Underground Cables and Overhead Lines Maintenance Department.

Sep 2007- Feb 2010 : **Assistant Teacher**
The Public Authority for Applied Education and Training, College of Technological Studies, Electrical Engineering Department.

Since Nov 2014 : **Assistant Professor**
The Public Authority for Applied Education and Training, College of Technological Studies, Electrical Engineering Department.

Additional professional activities

Since 1999 Member of Kuwait Society of Engineers.

Sept 2001 – July 2003 Representative of Kuwait in the Information Committee of CIGRE-GCC.

2005-2006 Lecturer on Power Cables in the Training Center for Newly Employed Electrical Engineers in the Ministry of Electricity and Water, Kuwait.

Since 2001 Member of CIGRE

Since 2005 Member of IET (formerly IEE)

Since 2010 Member of IEEE

Since 2018 Member of Kuwait National Committee for Rotating Electrical Machines Efficiency Standardization.

Publications

"Application of Artificial Neural Networks for Failure Prediction of Underground Transmission Cable Networks," T. Pipe, and H. Nouri co-authors in The 2nd GCC-Cigre International Conference, GCC Power, Doha, Qatar, 2005.

"Outsourcing Preventive Maintenance on Underground Power Transmission Cables," A. Sharaf co-author, in The 8th International Conference on Insulated Power Cables, Jicable, Versailles, France, 2007.

“Kuwait Outsources Preventive Maintenance.” A. Sharaf co-author, Transmission and Distribution World Magazine. Oct. 2009 vol. 61 No. 10 pp. 42-46

"Issues regarding cost estimation of permanent magnet synchronous generators for mega-watt level wind turbines," V. G. Agelidis, in IEEE International Electric Machines & Drives Conference (IEMDC), Niagara Falls, Canada, 2011, pp. 1629-1634.

"Flux density analysis of using Halbach array in MW level permanent magnet synchronous generators for wind turbines: A preliminary linear model," R. Dutta and V. G. Agelidis co-authors, in The XXth International Conference on Electrical Machines (ICEM), Marseille, France, 2012, pp. 274-280.

"An investigation of the use of a Halbach array in MW level permanent magnet synchronous generators," R. Dutta, and V. G. Agelidis co-authors, in The XXth International Conference on Electrical Machines (ICEM), Marseille, France, 2012, pp. 59-65.

"Application of particle swarm optimization in the design of large permanent magnet synchronous generators for wind turbines," V. G. Agelidis and R. Dutta co-authors, in IEEE International Conference on Power and Energy (PECon), Kota Kinabalu, Malaysia 2012, pp. 162 167.

"Lifetime Cost Assessment of Permanent Magnet Synchronous Generators for MW Level Wind Turbines," V. G. Agelidis and R. Dutta co-authors, IEEE Transactions on Sustainable Energy, Jan 2014, vol. 5, issue 1, pp. 10-17.

"Optimization of a MW Halbach PMSG for wind turbine applications", R. Dutta, and V. G. Agelidis co-authors, in the XXII International Conference on Electrical Machines (ICEM), Lausanne, Switzerland, 2016.

"Effect of eliminating rotor iron on a mega-watt halbach permanent magnet synchronous generator for wind turbine applications," R. Dutta, and V. G. Agelidis co-authors, in the 42nd Annual Conference of the IEEE Industrial Electronics Society (IECON), Florence, Italy, 2016.

"Application of Particle Swarm Optimization in the Design of Halbach Permanent Magnet Synchronous Generators for Megawatt Level Wind Turbines", in the 7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 2018.

"Multistage Particle Swarm Optimization for the Design of Direct Drive Permanent Magnet Synchronous Generators for Megawatt Wind Turbines", in The 6th International Conference on Advances in Artificial Intelligence (ICAAI), Birmingham, UK, 2022.

Awards

ICEM Jorma Luomi Student Forum Award in The XXth International Conference on Electrical Machines (ICEM), Marseille, France, 2012.

Best Paper Award in IEEE International Conference on Power and Energy (PECon), Kota Kinabalu, Malaysia 2012, pp. 162 167.

Best Session Presentation Award in the 42nd Annual Conference of the IEEE Industrial Electronics Society (IECON), Florence, Italy, 2016.

Best Session Presentation Award in the 6th International Conference of Advances in Artificial Intelligence (ICAAI), Birmingham, UK, 2022.