Thamer Alquthami

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

Education

Degree	*Field of Study*	*Institution*	*Year*
Ph.D.	Electrical Engineering	Georgia Institute of Technology	2015
MS	Electrical Engineering	Florida State University	2011
BS	Electrical Engineering	King Abdulaziz University	2005

Academic Experience

From	*To*	*Institution*	*Rank*	*Title*	*Full or Part Time*
2015	now	King Abdulaziz University	Assistant Professor		Full Time

Non-Academic Experience *(Including Consultations)*

2017 – 2018	*King Abdulaziz of Science and Technology*	*Consultant*	*Part Time*

Recent Publications

[1] T. Alquthami and A. S. Meliopoulos, "Smart house management and control without customer inconvenience," *IEEE Transactions on Smart Grid,* vol. 9, pp. 2553-2562, 2016.

[2] A. A. Alhussainy, T. S. Alquthami, and A. T. Alshaikh, "Harmonics Characterization for Various Photovoltaic Systems Using Pscad Simulation," in *2018 Twentieth International Middle East Power Systems Conference (MEPCON)*, 2018, pp. 546-551.

[3] M. A. Aljohani and T. Alquthami, "Long Term Generic Planning Framewrok For Interconnection a PV Plant with the Grid," *International Journal of Applied Engineering Research,* vol. 13, pp. 9730-9740, 2018.

[4] A. T. Alshaikh, T. Alquthami, and R. Sreerama Kumar, "Characterization of Voltage Rise Issue due to Distributed Solar PV Penetration," *International Journal of Applied Engineering Research,* vol. 13, pp. 7522-7528, 2018.

[5] A. R. Khan, S. Razzaq, T. Alquthami, M. R. Moghal, A. Amin, and A. Mahmood, "Day ahead load forecasting for IESCO using Artificial Neural Network and Bagged Regression Tree," in *2018 1st International Conference on Power, Energy and Smart Grid (ICPESG)*, 2018, pp. 1-6.

[6] S. Razzaq, C. Xydeas, M. E. Everett, A. Mahmood, and T. Alquthami, "Three-dimensional UAV routing with deconfliction," *IEEE Access,* vol. 6, pp. 21536-21551, 2018.

[7] A. Alkuhayli, T. Alquthami, and I. Husain, "Reactive Power Reserves Management by DGs for Voltage Stability Enhancement: A Case Study," in *2019 IEEE Milan PowerTech*, 2019, pp. 1-6.

[8] T. Alquthami, A. M. Alsubaie, and M. Anwer, "Importance of Smart Meters Data Processing–Case of Saudi Arabia," in *2019 International Conference on Electrical and Computing Technologies and Applications (ICECTA)*, 2019, pp. 1-5.

[9] T. Alquthami and K. Menoufi, "Soiling of Photovoltaic Modules: Comparing between Two Distinct Locations within the Framework of Developing the Photovoltaic Soiling Index (PVSI)," *Sustainability,* vol. 11, p. 4697, 2019.

[10] I. Ullah, M. B. Rasheed, T. Alquthami, and S. Tayyaba, "A Residential Load Scheduling with the Integration of On-Site PV and Energy Storage Systems in Micro-Grid," *Sustainability,* vol. 12, pp. 1-36, 2019.

[11] T. Alquthami, A. AlAmoudi, A. M. Alsubaie, A. B. Jaber, N. Alshlwan, M. Anwar*, et al.*, "Analytics framework for optimal smart meters data processing," *Electrical Engineering,* pp. 1-11, 2020.
[12] T. Alquthami, R. S. Kumar, and A. Al Shaikh, "Mitigation of voltage rise due to high solar PV penetration in Saudi distribution network," *Electrical Engineering,* pp. 1-10, 2020.
[13] Z. Khalid, G. Abbas, M. Awais, T. Alquthami, and M. B. Rasheed, "A Novel Load Scheduling Mechanism Using Artificial Neural Network Based Customer Profiles in Smart Grid," *Energies,* vol. 13, p. 1062, 2020.
[14] M. B. Rasheed, M. Awais, T. Alquthami, and I. Khan, "An Optimal Scheduling and Distributed Pricing Mechanism for Multi-Region Electric Vehicle Charging in Smart Grid," *IEEE Access,* 2020.
[15] M. B. Rasheed, M. A. Qureshi, N. Javaid, and T. Alquthami, "Dynamic Pricing Mechanism With the Integration of Renewable Energy Source in Smart Grid," *IEEE Access,* vol. 8, pp. 16876-16892, 2020.
[16] A. Raza, A. Benrabah, T. Alquthami, and M. Akmal, "A Review of Fault Diagnosing Methods in Power Transmission Systems," *Applied Sciences,* vol. 10, p. 1312, 2020.
[17] M. Tostado-Véliz, S. Kamel, T. Alquthami, and F. Jurado, "A Three-Stage Algorithm Based on a Semi-Implicit Approach for Solving the Power-Flow in Realistic Large-Scale ill-Conditioned Systems," *IEEE Access,* vol. 8, pp. 35299-35307, 2020.
[18] I. Ullah, M. B. Rasheed, T. Alquthami, and S. Tayyaba, "A Residential Load Scheduling with the Integration of On-Site PV and Energy Storage Systems in Micro-Grid," *Sustainability,* vol. 12, p. 184, 2020.

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

- Certified Solar PV Installer, Certificate Number (477), The Saudi Electricity Company (SEC) **2018-2021**
- Certified Measurement and Verification Professional (CMVP), Certificate Number (92553), Association of Energy Engineers (AEE). **2018-2021**
- Certified Energy Manger (CEM), Certificate Number (90529), Association of Energy Engineers (AEE). **2016-2019**
- Certified Energy Auditor (CEA), Certificate Number (93545), Association of Energy Engineers (AEE). **2016-2019**
- Certified CEM Trainer, Association of Energy Engineers (AEE). **2016-2019**
- Certified CEA Trainer, Association of Energy Engineers (AEE). **2016-2019**
- AEE Saudi Board Member **2018 – Present**
- Saudi Arabia Smart Grid Technical Committee Member **2019 – Present**