Mohammed Alruwaili

|  |  |
| --- | --- |
| *E-mail: mohammed.t.alrwaili@gmail.com*  *Address: Northern Border University*  *Arar 91431* | |
| **Education** | |
| Doctor of Philosophy in Electrical Engineering  Cardiff University | 2018-2023 |
| Master of Science in Electrical Engineering  University of Denver | 2016-2017 |
| Bachelor of Science in Electrical Engineering  Northern Border University | 2008-2013 |
| **Work Experience** |  |
| Northern Border University  Teaching Assistant | 2014-2021 |
| Cardiff University  Research Assistant | 2018-2022 |
| Northern Border University  Lecturer | 2021-Present |
| Electrical Engineer  Saudi Electricity Company (*Arar generation station*) | 2014-2014 |
| Aramco  Cooperative Training | 2012-2012 |
| **Software Skills** | |
| **Electrical Engineering Tools:**  MATLAB/Simulink, NEPLAN, HOMER Pro, HOMER Grid, XENDEE, OpenSolver | |
| **Programming**:  MATLAB, GAMS, Python |  |
| **General:**  Microsoft Office, LaTeX |  |
| **Research Interests** | |
| Airports Sustainability, Renewable Energy, Electricity Markets, Electric Vehicles, Smart Grids, Power Systems |  |
| **Publications** | |
| **M. Alruwaili** and L. Cipcigan, “Airport electrified ground support equipment for providing ancillary services to the grid,” Electr. Power Syst. Res., vol. 211, p. 108242, Oct. 2022, doi: 10.1016/j.epsr.2022.108242. | |
| **M. Alruwaili** and L. Cipcigan, “Optimal Annual Operational Cost of a Hybrid Renewable-Based Microgrid to Increase the Power Resilience of a Critical Facility,” Energies, vol. 15, no. 21, p. 8040, Oct. 2022, doi: 10.3390/en15218040. | |
| **M. Alruwaili** and L. Cipcigan, “Optimal Grid-Connected Hybrid Renewable Energy System for a Civilian Airport,” in 2022 IEEE International Conference on Environment and Electrical Engineering and 2022 IEEE Industrial and Commercial Power Systems Europe (EEEIC / I&CPS Europe), Jun. 2022, pp. 1–6. doi: 10.1109/EEEIC/ICPSEurope54979.2022.9854755. | |
| **M. Alruwaili** and L. Cipcigan, “Optimal Size of PV Grid Connected to Low-Voltage Network in Saudi Arabia,” in 2019 54th International Universities Power Engineering Conference (UPEC), Sep. 2019, pp. 1–5. doi: 10.1109/UPEC.2019.8893552. | |