CV

Dr. Ala Hussein Al-Saeid

Associate Professor, Department of Electrical Power Engineering, Hijjawi Faculty for Engineering Technology, Yarmouk University.

EDUCATION

Degree	Discipline	Institution	Year
Ph.D.	Electrical Engineering	University of Central Florida	2011
M.S.	Electrical Engineering	University of Central Florida	2008
B.S.	Electrical Engineering	Jordan University for Sci&Tec	2005

ACADEMIC EXPERIENCE

- Yarmouk University
  - Associate Professor (Jun. 2019 – present)
  - Assistant Professor (Sep. 2016 – Jun. 2019)
- United Arab Emirates University
  - Assistant Professor (Aug. 2012 – Aug. 2016)

PROFESSIONAL SOCIETY MEMBERSHIP

- Jordan Engineers Association (JEA)
- Institute of Electrical and Electronic Engineers (IEEE)

FUNDED RESEARCH GRANTS

Applied Research Grant (Yarmouk University Deanship of Scientific Research and Graduate Studies): *Smart PV Powered LED Light with Battery Monitoring System*; **20,000 JD (equivalent to $28,200)**, December 2017-December 2019.

SELECTED PUBLICATIONS

1. Ala A. Hussein, Abbas A. Fardoun "An Adaptive Sensorless Measurement Technique for Internal Temperature of Li-ion Batteries Using Impedance Phase Spectroscopy", IEEE Transactions on Industry Applications, Volume 56, Issue 3, pp. 3043–3051, May/June 2020.
2. Ala A. Hussein, Xi Chen, Mahmood Alharbi, Anirudh Pise, Issa Batarseh "Design of a Grid-Tie Photovoltaic System with a Controlled Total Harmonic Distortion and Tri Maximum Power Point Tracking", IEEE Transactions on Power Electronics, Volume 35, Issue 5, pp. 4780-4790, May 2020.
3. Ali Wadi, Mamoun F. Abdel-Hafez, Ala A. Hussein "Mitigating the Effect of Noise Uncertainty on the Online State-of-Charge Estimation of Li-Ion Battery Cells", IEEE Transactions on Vehicular Technology, Volume 68, Issue 9, pp. 8593-8600, September 2019.
4. Ala A. Hussein "Adaptive Artificial Neural Network Based Models for Instantaneous Power Estimation Enhancement in Electric Vehicles' Li-ion Batteries", IEEE Transactions on Industry Applications, Volume 55, Issue 1, pp. 840-849, January/February 2019.
5. Menatalla S. Eldin, Ala A. Hussein, Mamoun F. Abdel-Hafez "Improved Battery SOC Estimation Accuracy using a Modified UKF with an Adaptive Cell Model under Real EV Operating Conditions", IEEE Transactions on Transportation Electrification, Volume 4, Issue 2, pp. 408-417, June 2018.
6. Ala A. Hussein, Abbas A. Fardoun, Samantha S. Stephen "An Ultrafast Maximum Power Point Tracking Technique for Optimal Battery Charging", IEEE Transactions on Sustainable Energy, Volume 8, Issue 3, pp. 1321-1329, July 2017.

7. Menatalla S. Eldin, Mamoun F. Abdel-Hafez, Ala A. Hussein “Enhancement in Li-ion Battery Cell State-of-Charge Estimation Under Uncertain Model Statistics”, IEEE Transactions on Vehicular Technology, Volume 65, Issue 6, pp. 4608-4618, June 2016.
8. Ala A. Hussein, Abbas A. Fardoun, Samantha S. Stephen “An Online Frequency Tracking Algorithm using Terminal Voltage Spectroscopy for Battery Optimal Charging”, IEEE Transactions on Sustainable Energy, Volume 7, Issue 1, pp. 32-40, January 2016.
9. Ala A. Hussein “Capacity Fade Estimation in Electric Vehicles Li-ion Batteries using Artificial Neural Networks”, IEEE Transactions on Industry Applications, Volume 51, Issue 3, pp. 2321-2330, June 2015.
10. Ala A. Hussein, Nasser Kutkut, John Shen, Issa Batarseh “Distributed Battery Micro-storage Systems Design and Operation in a Deregulated Electricity Market”, IEEE Transactions on Sustainable Energy, Volume 3, Issue 3, pp. 545-556, July 2012.
11. Ala A. Hussein, Issa Batarseh “A Review of Charging Algorithms for Nickel and Lithium Battery Chargers”, IEEE Transactions on Vehicular Technology, Volume 60, Issue 3, pp. 830-838, March 2011.
12. Ala A. Hussein, Abbas Fardoun “Design Considerations and Performance Evaluation of Outdoor PV Battery Chargers”, Elsevier Renewable Energy Journal, Volume 82, pp. 85-91, October, 2015.
13. Ala A. Hussein “Derivation and Comparison of Open-loop and Closed-loop Neural Network Battery State-of-Charge Estimators”, Elsevier Energy Procedia Journal, 75 (2015), pp. 1856-1861.
14. Ala A. Hussein “Kalman Filters versus Neural Networks in Battery State-of-Charge Estimation: A Comparative Study”, International Journal of Modern Nonlinear Theory and Applications, Volume 3, Issue 5, pp. 199-209, December, 2014.
15. Zahi M. Omer, Ahmed M. Alameri, Abbas A. Fardoun, Ala A. Hussein “Comparison of Discharge Performance of 12V/150Ah Gel and AGM Sealed Lead-acid Batteries in Stand-alone PV-based Systems in UAE” Renewable Energy & Power Quality Journal (RE&PQJ), ISSN: 2172-038 X, No. 12, April, 2014.