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Amr M. Obeidat

Assistant Professor
Department of Electrical Engineering
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EDUCATION

PhD in Electrical Engineering, Binghamton University (BU), the State University of New York, Binghamton, New York, USA, August 2016

- Major Area of Research: Energy Storage Devices and Systems
- GPA: 4.00/4.00
- Dissertation Title: "Solid-State Supercapacitors with Ionic Liquid Gel Polymer Electrolyte Based on Poly (3, 4-ethylenedioxythiohpene), Carbon Nanotubes, and Metal Oxides Nanocomposites for Electrical Energy Storage".

Master of Science in Electrical Engineering, UTEP, El Paso, Texas, USA, Dec 2011.

- GPA: 4.0/4.0

Graduate Certificate in Systems Engineering, the University of Texas at El Paso (UTEP), El Paso, Texas, USA, May 2012

Bachelor of Science in Electrical and Computer Engineering, the Hashemite University (HU), Zarqa, Jordan, Aug 2009.

- Major: Communications and Electronics
- GPA: 3.08/4.0
- Undergraduate Project Topic: Design and Implementation of a Pulse Generator

HONORS AND RECOGNITION

- My Ph.D. dissertation was recognized as the best dissertation of the year by ADIPEC, Nov 2016
- Graduate Research Ambassador Award, Watson School of Engineering at BU, Spring 2017
- Awarded full PhD teaching assistantship and tuition scholarship package at BU
- Ranked among the top 5% of graduate class at UTEP in 2011
- Awarded PhD teaching assistantship from UTA (9/2012 – 5/2014)
- Awarded graduate assistantship from UTEP (9/2010 – 5/2012)
- Member of Alpha Chi Honor Society
- Member of Phi Kappa Phi Honor Society
- Member of Golden Key International Honor Society

PROFESSIONAL EXPERIENCE

Assistant Professor of Electrical Engineering 1/2017 – Present
Electrical Engineering Department, *HU, Zarqa, JORDAN*

Graduate Research and Teaching Assistant 08/2014 – 5/2016
Electrical and Computer Engineering Department, *BU, Binghamton, NY*

Graduate Teaching Assistant 8/2012 – 5/2014
Electrical Engineering Department, UTA, Arlington, TX

Graduate Research Assistant 9/2010 – 5/2012
Institute for Policy and Economic Development, UTEP, El Paso, TX

COURSES TAUGHT

Renewable Power Generation, Special Topics in Power & Energy, Electric Circuits I, Electric Circuits II, Electric Circuits Lab, Fundamentals of Electric Circuits Lab, Electronics & Machines Lab, Graduation Project I, and Graduation Project II.

SKILLS

- **Technical research skills**: Cyclic voltammetry (CV), electrochemical impedance spectroscopy (EIS), Raman spectroscopy, electrochemistry, materials synthesis, and design & fabrication of symmetrical and asymmetric supercapacitors.
- **Languages**: Arabic: Native. English: Fluent
- Work effectively in both self-managed and team-based projects; maintain high ethical and quality standards.
- Extraordinary communication skills orally and in writing.

UNIVERSITY SERVICE

College Committees & Service

- Representative of the Electrical Engineering Department in the Faculty Council (2019/2020)
- Industrial outreach and training committee (2019/2020)
- Graduation projects funding committee (2018/2019)
- ABET accreditation committee (2017/2018)
- Research groups and opportunities committee (2017/2018)
- Laboratories and engineering workshops equipment and budgeting committee (2017/2018)
- Teaching resources and technologies committee (2020/2021)

Departmental Committees & Service

- Fifth year students advising (2019/2020, 2020/2021)
- EE graduation projects committee (2017-present); coordinator (2018/2019)
- ABET accreditation committee (2017-Present)
- EE laboratories committee (2017/2018)

PROFESSIONAL MEMBERSHIPS

- Institute of Electrical and Electronics Engineers IEEE (3/2011 – 12/2016)
- Jordan Engineers Association JEA (10/2009 – Present)
- IEEE Young Professionals (1/2014 – 12/2016)
- IEEE Communications Society (3/2012 – 12/2012)

CONFERENCES ATTENDED

- The 16th IEEE International Multi-Conference on Signals, Systems, and Devices; invited as a keynote speaker - March 2019, Istanbul, Turkey.

- The Abu Dhabi International Exhibition & Conference (ADIPEC); received the award of "The Best Dissertation of the Year" for excellence in energy - November 2016, Abu Dhabi, UAE.

JOURNAL REVIEW SERVICE

I have reviewed various research articles for the following journals:

- International Journal of Renewable Energy Research (IJRER)
- International Journal of Ionics - The Science and Technology of Ionic Motion
- International Journal of Energy Research (IJER)
- Energy Storage
- Journal of Energy Storage

JOURNAL PAPERS

1) **Amr M. Obeidat** and Alok C. Rastogi, "Electrochemical Energy Storage Performance of Asymmetric PEDOT and Graphene Electrode Based Supercapacitors using Ionic Liquid Gel Electrolyte", ***Journal of Applied Electrochemistry 48 (7) (2018) 747-764***

2) **Amr M. Obeidat** and Alok C. Rastogi, "Graphene and Poly (3,4-ethylenedioxythiophene) (PEDOT) based Hybrid Supercapacitors with Ionic Liquid Gel Electrolyte in Solid State Design and their Electrochemical Performance in Storage of Solar Photovoltaic Generated Electricity", ***MRS Advances 1 (53) (2016) 3565-3571***

3) **Amr M. Obeidat** and Mohammad A. Gharaibeh, "Electrochemical Performance of MnO_2 for Energy Storage Supercapacitors in Solid-State Design", ***International Journal of Renewable Energy Research (IJRER) 8 (3) (2018) 1229-1235***

4) **Amr M. Obeidat**, "Solid-state supercapacitors based on poly (3, 4-ethylendioxythiophene) (PEDOT) – Manganese oxide (MnO_2) composite electrodes synthesized by single-step Co-Deposition for electrical energy storage", ***Materials Today Energy 10 (2018) 81 – 88***

5) **Amr M. Obeidat**, Mohammad A. Gharaibeh, and Mazin Obaidat, "Solid-State Supercapacitors with Ionic Liquid Gel Polymer Electrolyte and Polypyrrole Electrodes for Electrical Energy Storage", ***Journal of Energy Storage 13C (2017) 123-128***

6) **Amr M. Obeidat**, V. Luthra, and Alok C. Rastogi, "Solid-State Graphene based Supercapacitor with High Density Energy Storage using Ionic Liquid Gel Electrolyte: Electrochemical Properties and Performance in Storing Solar Electricity", ***Journal of Solid State Electrochemistry 23 (6) (2019) 1667-1683***

7) Feras Alasali, Khaled Nusair, **Amr M. Obeidat**, Husam Foudeh, and William Holderbaum, "An Analysis of Optimal Power Flow Strategies for a Power Network Incorporating Stochastic Renewable Energy Resources", ***International Transactions on Electrical Energy Systems (2021) DOI: 10.1002/2050-7038.13060***

8) Mazin Obaidat, **Amr M. Obeidat**, Ahmed Al-Ghandoor, Mohammad A. Gharaibeh & Hesham A. Almomani, "Modelling energy consumption of the Jordanian transportation sector: the application of multivariate linear regression and adaptive neuro-fuzzy techniques", ***International Journal of Sustainable Energy 38 (9) (2019) 814-820***

9) Mohammad A. Gharaibeh and **Amr M. Obeidat**, "Vibration Analysis of Rectangular Plates with Clamped Corners", ***Open Engineering 8 (2018) 275-283***

10) Mohammad A. Gharaibeh, **Amr M. Obeidat**, and Mazin H. Obaidat, "Numerical Investigation of the Vibration of Partially Clamped Rectangular Plate", ***International J. of Applied Mechanics and Engineering 23 (2018) 385-400***

REFERENCES

- Marwan M. Obeidat, Professor and Former Vice President, the Hashemite University, Jordan. Email: marwanobeidat@hotmail.com

- Alok C. Rastogi, Associate Professor of Electrical Engineering, State University of New York at Binghamton. Email: arastogi@binghamton.edu

- Mark L. Fowler, Distinguished Teaching Professor of Electrical Engineering, State University of New York at Binghamton, Email: mfowler@binghamton.edu

- Mike Elmore, Director of Engineering Design Division, State University of New York at Binghamton, Email: melmore@binghamton.edu