

Ahmad Bashaireh

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RESEARCH INTERESTS power electronics systems, sustainable power and energy systems, energy management

EDUCATION

- **Texas A&M University**, College Station, Texas, USA
Ph.D., Electrical Engineering – GPA: 4.0 **December 2019**
Advisor: Mehrdad Ehsani
- **Texas A&M University**, College Station, Texas, USA
M.Sc., Computer Engineering – GPA: 3.8 **August 2012**
Advisor: Peng Li
- **University of Jordan**, Amman, Jordan
B.Sc., Electrical Engineering – GPA: 3.79 (HONORS) **February 2009**

ACADEMIC EXPERIENCE

Jordan University of Science and Technology, Irbid, Jordan
Department of Electrical Engineering

- *Assistant Professor* **February 2020 – present**
- *Lecturer* **September 2019 – February 2020**

Texas A&M University, College Station, Texas, USA

Research Assistant

- Power Electronics and Motor Drives Laboratory **September 2014 – September 2019**
Conversion Function Theory of Power Converter Systems
- Computer Engineering and Systems Group **August 2011 – August 2014**
Design Robustness Analysis of Neuromorphic Circuits

Teaching Assistant **September 2014 – December 2018**

- ECEN403/404 Senior Design: supervise undergraduate senior design projects
- ENGR111/112 Foundations of Engineering : assist in designing and teaching an introductory course to engineering

German-Jordanian University, Amman, Jordan

Teaching Assistant **August 2009 – August 2010**

- Teaching first, second, and third year level electrical engineering laboratories.

PUBLICATIONS

- **Bashaireh, Ahmad**, and Peng Li. “Design robustness analysis of digital spiking neural circuits.” *In Circuits and Systems (MWSCAS), 2014 IEEE 57th International Midwest Symposium on*, pp. 737-740. IEEE, 2014.
- Abu-Elrub, Ahmad, **Ahmad Bashaireh**, Hussein Al-Masri, and Chanan Singh. “Sizing of an energy storage connected to a wind farm in an energy market.” *In 2015 North American Power Symposium (NAPS)*, 2015, pp. 1-6. IEEE, 2015.
- **Bashaireh, Ahmad**, Mostafa Mosa, Robert S. Balog, and Haitham Abu-Rub. “Optimum number of cascaded multilevel inverters for high-voltage applications based on Pareto analysis.” *In 2017 Power and Energy Conference (TPEC)*, IEEE Texas, pp. 1-6. IEEE, 2017.
- Alshawaqfeh, Mustafa, **Ahmad Bashaireh**, Erchin Serpedin, and Jan Suchodolski. “Consistent metagenomic biomarker detection via robust PCA.” *Biology Direct* 12, no. 1 (2017): 4.
- Alshawaqfeh, Mustafa, **Ahmad Bashaireh**, Erchin Serpedin, and Jan Suchodolski. “Reliable Biomarker discovery from Metagenomic data via RegLRSD algorithm.” *BMC Bioinformatics* 18, no. 1 (2017): 328.
- Shalalfeh, Laith, Ashraf AlShalalfeh, Khaled Alkaradsheh, Mahmoud Alhamarneh, and **Ahmad Bashaireh**. “Electric Vehicles in Jordan: Challenges and Limitation.” *Sustainability* 13, no. 6 (2021): 3199.

- Malkawi, Ahmad M. A., Abdallah Odat, and **Ahmad Bashaireh**. 2022. "A Novel PV Maximum Power Point Tracking Based on Solar Irradiance and Circuit Parameters Estimation." *Sustainability* 14, no. 13 (2022): 7699.
 - **Bashaireh, Ahmad**, Duaa Obeidat, Abdullah A Almehezia, Laith Shalalfeh, "Optimal Placement of Electric Vehicle Charging Stations: A Case Study in Jordan" In *2023 Power and Energy Conference (TPEC)*, IEEE Texas, pp. 1-6. IEEE, 2023.
 - Saadeh, Osama, Baher Abu Sba, Zakariya Dalala and **Ahmad Bashaireh**, "Comparative Performance Analysis of HVDC and HVAC Transmission Systems in the Presence of PV Generation: A Case Study using the IEEE-5-Bus Network." In *2023 AEIT HVDC International Conference (AEIT HVDC)*, Rome, Italy, 2023, pp. 1-5. IEEE, 2023.
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COURSES
TAUGHT

- Switching Power Electronics
 - Power Electronics
 - Electric Drive Systems
 - Power Systems
 - Power System Quality, Reliability and Protection
 - Digital Control
 - Microcontrollers and Embedded Systems
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LANGUAGES

Language Skills

- Arabic, Native.
- English, Fluent.