Ahmad Malkawi

Citizenship: Jordanian-Date of birth: October 23, 1987

Contact Information:

Mechatronics Engineering Dept.
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OBJECTIVES:	To be a successful researcher. To work with my highest potential and to be an effective member in the institute which I work with.

EDUCATION:

- **Ph.D. in Electrical and Computer Engineering, Dec. 2018.**
  Concordia University, Montreal, QC.
  GPA: 3.9 out of 4.3.
  Theses " Single and Dual DC Buses Nanogrids with Decentralized Control".
  Advisor: Prof. Luiz A.C. Lopes

- **Master of Science in Engineering Technology, Industrial Automation, Jul. 2012**
  Yarmouk University, Irbid, Jordan.
  GPA: 90.7%, Excellent degree.
  Theses: "Adaptive Control for Power DC-DC converter Using Simulated Annealing Optimizer".
  Advisor: Dr. Amin Alqudah

- **Bachelor of Science in Engineering Technology, Electronics Engineering, Jan. 2010**.
  Yarmouk University, Irbid, Jordan.
  GPA: 91.9%, Excellent degree.
  Graduation Project: "Tremor Measuring Device".
  Advisor: Dr. Awad Al-Zaben.

- **Tawjjihi Secondary Exam.**
  Malka Secondary School;
  GPA: 89.4%, Excellent degree.

PROFESSIONAL & TECHNICAL EXPERIENCE:

Assistant Dean of Scientific Research for Journals, Computer and Quality Affairs, 2020, University of Jordan. (To present)

Assistant Professor in the Department of Mechatronics Engineering, 2019, University of Jordan. (To present)

- Electronics for Mechatronics.
- Electrical Actuators.
- Measurement and Signal Processing.
- Power Electronics and Drive.

Teacher Assistant, 2017, Concordia University.

- Tutorial leader for Electronics I.
- Marker for Electronics I.
- Tutorial leader for Electronics II.
- Marker for Power Electronics I.

Teacher Assistant, 2010/2011, Hijjawi Faculty for Engineering Tech.
Yarmouk University, Irbid, Jordan.

Assisted in the following courses and labs:
- Circuit lab (Power Dep.).
- Control lab (Power Dep.).
- Digital Design lab (Computer Dep.).
- Digital Signal Processing lap DSP (Medical Dep.).
- Advanced DSP lab (Medical Dep.).
- Microcontroller lab (Medical Dep.).
- Electronics lab (Electronics Dep.).

TECHNICAL AND SOFTWARE SKILLS:	- MATLAP, PSIM - Protues Simulation Program, Circuit Maker, LTspice. - Technical and equipment needed for the Laps in the last section.
SCHOLARSHIP AND AWARDS:	- Scholarship from University of Jordan covers PhD tuition fee at Concordia University and monthly fee of 1,750 CAD (Now) (Totally = 130,000 CAD). - Bursary from Concordia University with monthly fee of 800 CAD (Now) (Totally= 30,000 CAD). - Scholarship from Jordan government covers Master tuition fee and a monthly fee of 550CAD (During My Master's Degree for 24 Month) (Totally =21,000 CAD). - Three Times Honor Awards (During bachelor's degree) (Totally= 5,600 CAD).
THESES AND PUBLICATIONS:	- Siad, S. B., Malkawi, A., Damm, G., Lopes, L., & Dol, L. G. (2019). Nonlinear control of a DC MicroGrid for the integration of distributed generation based on different time scales. International Journal of Electrical Power & Energy Systems, _111_, 93-100. - Malkawi, Ahmad, and Luiz Lopes. "A novel seamless control algorithm for a single-stage photovoltaic interface employing DC bus signaling." International Journal of Electrical Power & Energy Systems 113 (2019): 90-103.

- Theses: "Dual DC Buses Nanogrid Decartelized Control". Ph.D. Degree. Advisor: Prof. Luiz Lopes.
- Ahmad Malkawi and Luiz A. C. Lopes, "Improved Dynamic Voltage Regulation in a Droop Controlled DC Nanogrid Employing Independently Controlled Battery and Supercapacitor Units", Applied Sciences. 2018 Sep 1;8(9):1525.
- Ahmad Malkawi and Luiz A. C. Lopes, "Control of the Power Electronics Interface of a PV Source in a Smart Residential DC Nanogrid", 2016 IEEE-CCECE Conference
- Alqudah, A. , Malkawi, A. and Alwadie, A. (2015) Erratum to "Adaptive Control of DC-DC Converter Using Simulated Annealing Optimization Method" [Journal of Signal and Information Processing, (2014), 5, 198-207].*Journal of Signal and Information Processing*, **6**, 136-145. doi: 10.4236/jsip.2015.62013.
- Theses: "Adaptive Control for Power DC-DC Converter Using Simulated Annealing Optimizer". Master Degree. Advisor: Dr. Amin Alqudah.