Abedalgany Abedallah Athamneh, Ph.D

Electrical Engineering Dept./ Fahad Bin Sultan University

Contact Information:

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Personal Data:

Nationality: *Jordanian*

Date of Birth: *18-3-1974*

Place of Birth*: Irbid- Jordan*

Education:

Ph.D *in Electrical Engineering / Power Engineering*

University of Texas at Arlington- USA, 2009

M.Sc in Electrical Engineering / *Power Engineering*

University of Texas at Arlington- USA, 2005

B.Sc in Electrical Power Engineering / *Power Engineering*

Yarmouk University- Jordan, 1997

Area of Specialization:

Power Systems analysis, Protection and Monitoring, Renewable Energy and FACTS devises.

Employment and Academic Positions

- ✓ **Assistant Professor/** ***Electrical Engineering Department****/ Fahad Bin Sultan University, September 2015– Present.*
- ✓ **Chairman of Electrical Power Engineering Department***/ Yarmouk University, September 2010 – September 2013.*
- ✓ **Assistant Professor/** ***Electrical Power Engineering Department****/ Yarmouk University, Summer 2009 – Present.*
- ✓ **Research and Teaching Assistant***/ Electrical Engineering Department, University of Texas at Arlington- USA, 2006-2009.*

  - Project: *Implementing On-Line Open Main Detection System for the Secondary Distribution Networks by Processing the "RMS" Data,* Sponsor: Consolidated Edison Company of New York, Inc.

  - Project: *A Novel Wireless Sensor Network with Advanced Prognostic Algorithms for Condition Based Maintenance of Critical Power Plant Components (Co-PI)* Sponsor: Signal Processing, Inc. (DOE SBIR Phase I).

- ✓ **Lab Engineer and instructor**, *Electrical Power Engineering Department/ Yarmouk University, 2000 – 2004.*
- ✓ **Power System Protection Engineer**, *National Electric Power Co. (NEPCO), Amman 1998 – 2000.*

Teaching Experiences:

Courses*: AC and DC Electric Circuits, Automatic Control Theory, AC and DC Electric Machines, Power System Analysis, Power System Protection*

(graduate and undergraduate), Engineering Ethics, Linear System Analysis, Renewable Energy Systems, Advanced Analysis of Electric Machines and Advance Power System Analysis.

Labs: *Electric Circuits, Automatic Control, Electric Machines, Power System Protection, Measurements, Electrical Workshop, Computer Applications for Power systems.*

Membership of University Committees:

- ✓ *Saudi council of Engineers, 2015- present.*
- ✓ *FBSU Engineering Faculty Council, 2016- Present.*
- ✓ *YU University Council, for academic year 2013/2014.*
- ✓ *YU Engineering Faculty Council, 2009- Present.*
- ✓ *YU Engineering Faculty Graduate Studies Committee, 2010-2013.*
- ✓ *YU Engineering Faculty Curriculum Committee, 2010- 2013.*

Puplications:

Journal Articles

- ✓ Ahmad Bataineh, Amin Al-Oudah, Abedalgany Athamneh," Optimal design of hybrid power generation system to ensure reliable power supply to the health center at Umm Jamal, Mafraq, Jordan," *Energy and Environment Research- Canadian Center of Science and Education*,Vol. 4, No. 3, 2014.

- ✓ A.Ramani, C. McMurrough, M. Middleton, P. Ballal, A. Athamneh, Wei-Jen Lee, C.Kwan, F. Lewis, "A Two-Stage Neural N etwork Classifier for Condition-based Maintenance in Wireless Sensor Networks," *Int. J. of Condition Monitoring and Diagnostic Engineering Management*, vol. 13, no. 2, April 2010. pp17 – 26.

- ✓ Shadi A. Alboon, Amin T. Alqudah, Hussien R. Al-Zoubi and Abedalgany A. Athamneh, "Fully Automated Smart Wireless Frost Prediction and Protection System Using a Fuzzy Logic Controller" , the *International Journal of Applied Science, Engineering and Technology*, IJAISC 3(2): 165-184 (2012)

Conference Papers

- ✓ C. Kwan, B Ayhan, J Yin, X Liu, P Ballal, A Athamneh, et al, " Real-time system condition monitoring using wireless sensors," 2009 IEEE Aerospace conference (2009)

- ✓ P. Ballal, A. Ramani, M. Middleton, C. McMurrough, A. Athamneh, W. Lee, C. Kwan, and F. Lewis, "Mechanical Fault Diagnosis using Wireless Sensor Networks and a Two-Stage Neural Network Classifier," Proc. IEEE Aerospace Conference, Big Sky, Montana, March 2009, Page(s):1 – 10.

- ✓ A. Athamneh, W. J. Lee, "The Impact of Using UPFC on Jordanian Power System Performance," *Power Symposium, 2007. NAPS '07. 39th North American*, Sept. 30 2007-Oct. 2 2007.
- ✓ A. A. Athamneh, W. J. Lee, "Benefits of FACTS devices for power exchange among Jordanian Interconnection with other Countries," *Power Engineering Society General Meeting*, June 2006.

Master Thesis Supervision:

- ✓ **MR. Ahmad G. Khataibeh**

  Title: Evaluation of Harmonics Effect Produced By Grid Connected PV Systems on the Performance of Current Relays.

- ✓ **Mr. Belal Hussin Al-majali**

  Title: Improving System Voltage Stability with a large Scale of SCIG Generation Using STATCOM.

  Date of Completion: 2015

- ✓ **Mr. Mohamad A. Kalboneh**

  Title: Harmonics Distortion and Network Resonance Assessment in JEPCO's Distribution System.

- ✓ **Mr. Al - Hamouri , Abdallah T.**

  Title: Impact Study of Connecting a Photovoltaic (PV) System to a Distribution system..

  Date of Completion: May 1, 2013.

- ✓ **Mr. Ali I. Halabi**
  Title: Oscillation Damping Improvement of Multi-Machine Power System Including Thyristor Controlled Phase Shifter (TCPS) by Simulated Annealing (SA).
  Date of Completion: April 17, 2013.

- ✓ **Khalid A. Alza'arer**
  Title: Stability Analysis for Photovoltaic Connected Distribution Grid.
  Date of Completion: 1/8/2012

Master Thesis Committee Membership:

- ✓ **Rafat Radwan Aljarah**, Envelope Based Classification of Voltage Variations| Using Artificial network, March 11, 2015.

- ✓ **Amani Al-Omari,** Discrimination between Transformer Inrush Current and| Internal Fault Current Using Least-square- NN Aproach, feburary 25, 2015.

- ✓ **Almoatasim Bilah Al-Dawodieh**, Optimization of Double-Circuit| Transmission Line Configuration for Unbalance Minimization, August 17, 2014
- ✓ **Shadi A. Younis**, Renewable Energy Adoption for Grid-Connected and Isplated Remote Loads (Royal Jor danian Air Force as a Case Study), November 21, 2013.

- ✓ **Anas I. Maabreh**, Effect of Approximate Modeling of Interline Power FlowController(IPFC) In Power System Operation, August 2013.
- ✓ **Majdi A. Ayyat**, Optimal Cost of solid Dielectric Ac Power Cables for 33kV and above, June 20, 2013.
- ✓ **Sadam S. Altamimi,** Power Matching between Active Hybrid (Battery, Ultra Capacitor) Power Source and Demand, May 9, 2013.
- ✓ **Habis A. Khawaldeh,** Tuning of Static Synchronous Compensator in A Power System for Oscillation Damping Using Fuzzy Logic, November 11, 2012.
- ✓ **Atiah Y.Hawamleh**, Analysis of Mechanical Strength of different Types of Composite Insulation Barriers at Dry and Wet Conditions, August 23, 2012.
- ✓ **Murad A. Alomari,** Optimal Design and Analysis of Hybrid Energy System (HES) for Some Study Cases in Jordan, July 26, 2012.
- ✓ **Yousef A. Shatnawi**, Fault Diagnosis in Internal Combustion Engine, July 2012

- ✓ **Ahmad M. Malkawi,** The Adaptive Control of DC-DC Converter Using Simulated Annealing Optimization Method, July 2012.
- ✓ **Hussien M. Almasri**, The Feasibility Study of A Hybrid Wind/ PV System Connected to The Jordanian Grid, July 10, 2012.
- ✓ **Khalid A. Mahafzah,** Shunt Active Filters Based on Diode Clamped Multilevel inverter and Hysteresis Band Current Controller**,** June 25, 2012.
- ✓ **Mohamad M. Husien**, Assessment of Harmonic Impact on The Insulation of XLPE Cables, July 18, 2012.
- ✓ **Mathhar A. bdour,** Analysis of Impact of Large Scale Photvoltaic Solar System on the Power Qualoty in Distribution Networks, May 17, 2012.
- ✓ **Ahmad M. Shatnawi,** An Early Estimation of Induction Motor Faults Using Stator Current Signature Analysis Via Wavelet Decomposition, May 5, 2012.
- ✓ **Heba M. Aljamal,** Optimal Design of Interline Power Flow Conteroller to Damp Power System Oscillation Using Genetic Algorithm, December 29, 2011.
- ✓ **Mohamad A. Alahmad**, Life Assessment of Polymeric Insulators Operating in Jordanian Power System Under Different Pollution Conditions, December 17, 2011.
- ✓ **Asma'a S. Hatmi,** Analysis of Low Frequency Sustained Oscillation in The Jordanian Interconnected Network, January 2010.

References:

- ✓ **Professor Wei-Jen Lee**, Director of Energy Systems Research Center/ University of Texas at Arlington-USA. UTA Box 19048, 416 Yates Street, Room 518 Arlington, TX 76019, Tel: (817) 272-5046, FAX: (817) 272-2253, Email: wlee@uta.edu

- ✓ **Professor Abdulla H. Malkawi, Abdallah I. Husein Malkawi, Chancellor/ Fahad Bin Sultan University- Tabuk/ KSA** .
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- ✓ **Professor Ahmad F. Al-Ajlouni,** Vice president/ Yarmouk University-Jordan.
  Phone: +962 2 721 1111, ext. 2103/ 2104, Fax: +962 2 727 4725, E-mail**:** **vice.admin@yu.edu.jo**