

Dr. Muhyaddin Jamal Hosin Rawa

Assistant Professor, Department of Electrical and Computer Engineering Dept., King Abdulaziz University

Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Electrical and Electronic Engineering	The University of Nottingham	2014
MSc	Electrical and Computer Engineering / Power and Machines	King Abdulaziz University	2008
BSc	Electrical and Computer Engineering	Umm AlQura University	2000

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Full or Coordinator, etc.)</i>	<i>Part Time</i>
2008	2009	King Abdulaziz University	Demonstrator	Graduate Assistant	Full
2010	2014	The University of Nottingham	Graduate Student	Research Assistant	Full
2012	2013	The University of Nottingham	Graduate Student	MSc Project Assistant	Full

Funded Research Projects and Patents from the Past Five Years

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Certifications and Professional Registrations

- 1.
- 2.
- 3.
- 4.

Current Membership in Professional Societies and Organizations

<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
IEEE Power & Energy Society Membership	Member	2011
IEEE Power Electronics Society Membership	Member	2011
IEEE Reliability Society Membership	Member	2012
IEEE Electromagnetic Compatibility Society Membership	Member	2012
Smart Grid Community, IEEE	Member	2013
Industrial Electronics Society Membership	Member	2013

Honours and Awards

- 1.
- 2.
- 3.
- 4.

Institutional and Professional Services *(administration, committees, units, etc.)*

1. Member of the technical program committee of the following journals.
 - American Journal of Electrical Power and Energy Systems.
 - International Journal of Computing and Digital Systems.
2. Member of the technical program committee of many conferences.
3. Session chair in the following conferences.
 - UKSim 17th International Conference on Computer Modelling and Simulation, 2015.
 - UKSim 16th International Conference on Computer Modelling and Simulation, 2014.
 - UKSim 15th International Conference on Computer Modelling and Simulation, 2013.
 - IEEE 11th International Conference on Electrical Power Quality and Utilisation (EPQU), 2011.

Principal Publications/Presentations from the Past Five Years

1. Muhyaddin J. H. Rawa, David W. P. Thomas, Comparison Of The Equivalent Circuit Model And The Tlm Method For Frequency Selective Surface Analysis, Asian Journal Of Science And Technology. Vol. 6, Issue 05, pp. 1436-1440, May, 2015.
2. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M., "Experimental Measurements and Computer Simulations of Home Appliances for Harmonic Studies," Computer Modelling and Simulation (UKSim), 2015 UKSim 17th International Conference on , vol., no., pp.xx,xxx, 25-27 March 2015.
3. Muhyaddin J. H. Rawa, David W. P. Thomas, Factors Affecting the Harmonics Generated by a Group of CFLs: Experimental Measurements, American Journal of Electrical Power and Energy Systems. Vol. 4, No. 1, 2015, pp. 10-16. doi: [10.11648/j.epes.20150401.12](https://doi.org/10.11648/j.epes.20150401.12).
4. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M., "Background Voltage Distortion and Percentage of Nonlinear Load Impacts on the Harmonics Produced by a Group of Personal Computers," Electromagnetic Compatibility (EMC EUROPE), 2014 International Symposium

- on , vol., no., pp.xxx,xxx, 1-4 Sept. 2014.
5. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M., "Factors Affecting the Harmonics Generated by a Cluster of Personal Computers," Harmonics and Quality of Power (ICHQP), 2014 IEEE 16th International Conference on , vol., no., pp., 25-28 May 2014.
6. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M., "Experimental Measurements and Computer Simulations of Home Appliances for Harmonic Studies," Computer Modelling and Simulation (UKSim), 2014 UKSim 16th International Conference on , vol., no., pp.339,343, 26-28 March 2014.
7. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M., "Experimental Measurements and Computer Simulations of FL and CFL for Harmonic Studies," Computer Modelling and Simulation (UKSim), 2014 UKSim 16th International Conference on , vol., no., pp.334,338, 26-28 March 2014.
8. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M., "Power quality monitoring and simulation of a personal computer based on IEEE 1459–2010," Electromagnetic Compatibility (EMC EUROPE), 2013 International Symposium on , vol., no., pp.671,675, 2-6 Sept. 2013.
9. Ivry, P.M.; Rawa, M.J.; Thomas, D.W.P.; Sumner, M., "Power quality of a voltage source converter in a smart grid," PowerTech (POWERTECH), 2013 IEEE Grenoble , vol., no., pp.1,6, 16-20 June 2013.
10. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M., "Modelling and Simulation of a 3kW Residential Photovoltaic for Harmonics Analysis," Computer Modelling and Simulation (UKSim), 2013 UKSim 15th International Conference on , vol., no., pp.563,568, 10-12 April 2013.
11. Preye M. Ivry; Muhyaddin J. H. Rawa; Dave W. P. Thomas;, "Factors Affecting the Harmonics Generated by a Generic Voltage Source Converter within a Microgrid," 2nd Saudi Arabia Smart Grid Conference and Exhibition, 8-11 December 2012.
12. Rawa, M. J H; Thomas, D.W.P.; Sumner, M., "Harmonics attenuation of nonlinear loads due to linear loads," Electromagnetic Compatibility (APEMC), 2012 Asia-Pacific Symposium on , vol., no., pp.829,832, 21-24 May 2012.
13. Rawa, M.J.H.; Thomas, D.W.P.; Sumner, M.; Chin, J.X., "Source voltage, frequency and impedance variation effects on the harmonics generated from a Personal Computer," Power Electronics, Machines and Drives (PEMD 2012), 6th IET International Conference on , vol., no., pp.1,6, 27-29 March 2012.
14. Rawa, M. J H; Thomas, D.W.P.; Sumner, M., "Simulation of non-linear loads for harmonic studies," Electrical Power Quality and Utilisation (EPQU), 2011 11th International Conference on , vol., no., pp.1,6, 17-19 Oct. 2011.

Recent Professional Development Activities (*Workshops, training, etc.*)

- 1.
- 2.
- 3.
- 4.