

Qatar University
College of Engineering
Department of Electrical Engineering

Rashid Alammari

<i>Rank</i>	Associate Professor
<i>Degrees Earned</i>	- Ph.D. Electrical Engineering (Power Systems), University of Strathclyde, United Kingdom, May 1996 - M.S. Electrical Engineering (Power Systems), Washington State University, Pullman, WA, USA. - BS Electrical Engineering, Qatar University, Doha, Qatar.
<i>Administrative Experience</i>	▪ Dean, College of Engineering, October 2012 to March 2016 ▪ Vice Chair, Qatar University Faculty Senate, February 2007-Feb. 2010 ▪ Chairman, Department of Electrical Engineering, April 2000-January 2004. ▪ Chairman, University Foundation Programs Unit, December 1998-December 2001.
<i>Awards</i>	▪ Qatar State Incentive Award in Electrical Engineering, 2012 ▪ Qatar University Distinguished Researcher, 2003/2004
<i>Conferences or Workshops Attended in the Past Five Years</i>	1. 2013 Chicago, USA, 2014 Dubai, UAE, and 2015 Adelaide, Australia Global Engineering Deans Council 2. June 2015, ASEE, Seattle, Washington 3. June 2014, ABET Accreditation Workshop, Qatar University, Doha, Qatar 4. February 2014, Middle Manager Program Workshop, Organized by HR, Doha, Qatar 5. December 2013, Engineering Education Forum, CENG, Qatar University 6. December 2013, International Conference on Engineering Education (ICEE2013), Madinah, Saudi Arabia 7. June 2013 ASEE, Atlanta, Georgia, USA 8. February 2013, IEEE ICIT, Cape Town, South Africa
<i>Research Awards</i>	▪ MW PV Power RD&D Using SiC-based qZS Cascaded Multilevel Inverter and Battery Energy Storage (2013-2018)-NPRP X-033-2-007 (apprx. 5 Million US Dollar). ▪ Qatar Power System Transition to Smart Grid (2014-2017)-NPRP 6-244-2-103 (approx. 1 Million US Dollar) ▪ Allocation of Reactive Power Reserves in Qatar Power System (2010-2011) UREP 2-002-1-871(14,500 USD)

- Dynamic Control Approaches of Renewable Energy Sources for the Modern Smart Grid System (2015-2018)---Submitted for possible funding of a post doc PDRA scheme.
- Qatar University Digital technology engineering education centre-NPRP 8-492-2-203 (2015-2018)---Under preparation

Principal Publications

1. Iqbal, A, Rahman, K, Alammari, R, Abu-Rub, H, Proceedings of the IEEE International Conference on Industrial Technology, Volume 2015-June, Issue June, 16 June 2015, Article number 7125257, Pages 1179-1184
2. Abdmouleh Z, Alammari R, Gastli A. Recommendations on renewable energy policies for the GCC countries. Renewable Sustainable Energy Rev 2015;50:1181-1191
3. Abdmouleh Z, Alammari R, Gastli A. Review of policies encouraging renewable energy integration & best practices. Renewable Sustainable Energy Rev 2015;45:249-262
4. S. Payami, R. Behera, A. Iqbal, R. A. Alammari, "Common Mode Voltage and Vibration Mitigation of a Five-Phase Three Level NPC Inverter fed Induction Motor Drive System" IEEE Journal of Emerging and Selected Topics in Power Electronics, Volume: PP, Issue: 99, March 2014
5. M.R. Khan, R. A. Alammari, S. Moinoddin, A. Iqbal, "Modelling and Analysis of a three-phase to five-phase transformer", Int. Journal of Emerging Power System, vol. 15, issue 4, pp. 401-410 Aug. 2014
6. Khan MR, Alammari R, Moinoddin S, Iqbal A. Modelling and analysis of a three-phase to five-phase transformer. International Journal Emerging Electric Power Systems 2014;15(4):401-410
7. Iqbal, A , Alammari, R, Mosa, M, Abu-Rub, H, Finite set model predictive current control with reduced and constant common mode voltage for a five-phase voltage source inverter. IEEE International Symposium on Industrial Electronics; 2014
8. S. Payami, R. Behera, A. Iqbal, R. A. Alammari, "Common Mode Voltage and Vibration Mitigation of a Five-Phase Three Level NPC Inverter fed Induction Motor Drive System" IEEE Journal of Emerging and Selected Topics in Power Electronics, Volume: PP, Issue: 99, March 2014.
9. M.R. Khan, R. A. Alammari, S. Moinoddin, A. Iqbal, "Modelling and Analysis of a three-phase to five-phase transformer", Int. Journal of Emerging Power System, vol. 15, issue 4, pp. 401-410 Aug. 2014.
10. S. Moinoddine, H. Abu-Rub, A. Iqbal, R.A. Alammari, "Modelling and implementation of SVPWM Technique for a Fifteen-phase Voltage Source Inverter for Sinusoidal Output", IEEE Int. conf. on Industrial technology, ICIT, 16-19 March 2015, Sieville, Spain (Accepted for publication)

11. Anad, M. Meraj, A. Iqbal, L. Ben-brahim, R.A. Alammari, H. Abu-Rub, "Space vector PWM control of ZSI and qZSI", IEEE Trans. On Ind. Elect. (review).
12. K. Rahman, A. Iqbal, A.A. Abdullah, R. A. Alammari, H. Abu-Rub, "Space vector pulse width modulation scheme for three to seven phase direct matrix converter" Applied Power Electronics Conference and Exposition (APEC), 2014 Twenty-Ninth Annual IEEE 2014 , Pages: 595 – 601.
13. Iqbal, R. A. Alammari, M. Mosa, H. Abu-Rub, "Finite Set Model Predictive Current Control with Reduced and Constant Common Mode Voltage for a Five-phase Voltage Source Inverter", IEEE 23rd International Symposium on Industrial Electronics (ISIE), 2014, Pages 479-484.
14. H. Echeikh, R. Trabelsi, M.F. Mimouni, A. Iqbal, R. A. Alammari, "High performance backstepping control of a five-phase induction motor drive", IEEE 23rd International Symposium on Industrial Electronics (ISIE), 2014, Pages: 812 – 817.
15. Iqbal, R. A. Alammari, H. Abu-Rub, S.M. Ahmed, "PWM scheme for dual matrix converters based five-phase open-end winding drive" IEEE International Conference on Industrial Technology (ICIT), Cape Town, 2013, Pages: 1686 – 1690.
16. K. Rahman, A. Iqbal, R. A. Alammari, "Space vector model of a three-phase to five-phase AC/AC converter" IEEE AFRICON, 2013 , Mauritius Pages: 1 – 6.
17. J.A. Hamad, M. Hasanain, M. Abdulwahed, R. A. Alammari, "Ethics in Engineering Education: A Literature Review" Frontiers in Education Conference, IEEE , 2013 , Pages: 1554 – 1560.
18. Gastli, Y. Charabi, R. A. Alammari, A.M. Al-Ali, "Correlation between climate data and maximum electricity demand in Qatar" , 7th GCC Conference and Exhibition (GCC), 2013 , Pages: 565 – 570.
19. R. A. Alammari, K.L. Lo, and S. A. Soliman, "Identification of Voltage Collapse in Power Systems", GCC-CIGRE Conference, Doha, Qatar, October, 2010.
20. R. A. Alammari, A. Nassar, A. Mohaneds, "Reactive Power Compensation Using Linear Programming Technique", ICCCP'09 Conference, Sultan Qaboos University, February 2009.
21. S. A. Soliman, R. A. Alammari, "Voltage Stability Margin Identification of Power Systems Using Local Measurements", Proc. 8th International Power Engineering Conference, Singapore, December 2007.
22. M. Al-Kandari, S. A. Soliman, R. A. Alammari "Power Quality Analysis based on Fuzzy Estimation Algorithm: Voltage Flicker

- Measurements”, International Journal of Electrical Power and Energy Systems, Vol. 28, 2006, pp. 723-728.
23. S. A. Soliman, R. A. Alammari, “Harmonic Modeling of Linear and Nonlinear Loads o Kalman Filtering Algorithm”, Electric Power Systems Research Journal, Vol. 72, June 2004, pp. 147-155.
 24. S. A. Soliman, R. A. Alammari, M. E. El-Hawary, “A new Digital Transformation for Harmonics and DC offset removal for the Distance Fault Locator”, International Journal of Electrical Power and Energy Systems, Vol. 26, 2004, pp. 389-395.
 25. R. A. Alammari, S.A. Soliman, M.E. El-Hawary, “Identification of individual types of harmonic loads in an electric power system bus”, Electrical Power and Energy Systems Journal, Vol. 26, 2004, PP. 545–548.
 26. R. A. Alammari, S. A. Soliman, M. E. Mostafa, M. E. El-Hawary, “Tow Digital Filtering Algorithms for Fast Estimation of Symmetrical Components in a Power System: A Static Estimation Approach”, Electric Power Systems Research Journal, Vol. 66, Issue 2, August 2003, pp. 133-137.
 27. S. A. Soliman, R. A. Alammari, M. E. El-Hawary “ Frequency and Harmonics Evaluation in Power Networks Using Fuzzy Regression Technique,” Electric Power Systems Research Journal, Vol. 66, Issue 2, August 2003, pp. 171-177.
 28. S. A. Soliman, R. A. Alammari, A. H. Mantawy, M. E. El-Hawary, “Park’s Transformation Application for Power System Harmonics Identification and Measurements.” Electric Power Components and Systems Journal, Vol. 31, 2003, pp. 777-789.
 29. S. A. Soliman, R. A. Alammari, M. Al-Kandari, M. E. El-Hawary, “ A Demodulation Technique for Power System Local Frequency and Voltage Measurements,” Engineering Journal, University of Qatar, Vol. 16, 2003, pp. 99-108.
 30. R. A. Alammari, “Fuzzy System Applications for Identification of Weak buses in Power Systems”, The Arabian Journal for Science and Engineering, King Fahd University, Vol. 27, October 2002, pp. 165-178.
 31. R. A. Alammari, “Voltage Stability Margin Identification Using Local Measurements and Linear Kalman Filtering”, Engineering Journal, University of Qatar, Vol. 15, 2002, pp. 153-164.
 32. S. A. Soliman, R. A. Alammari, H. K. Temraz, M. E. El-Hawary, “Fuzzy Linear Parameter Estimation Algorithms: A New Formulation,” International Journal of Electrical Power and Energy Systems, Vol. 24, Issue 5, 2002, pp. 415-420.
 33. S. A. Soliman, R. A. Alammari, N. Alemadi, ”Z-Transform Application for Modeling of Electric Loads in the Presence of Harmonics,” CIGRE, Session-2002 , No. 38-110, August 2002.

34. K. L. Lo, H. El-Khtroushi, M. Tumay, R. Alammari, "Dynamic Unbalanced Analysis of Multimachine Power System Using Phase Frame of Reference", International Journal of Engineering Science & Technology, Vol. 1, 2001, pp. 29-43.
35. S. A. Soliman, R. A. Alammari, M.A. Mostafa, M. E. El-Hawary, "A Demodulation Technique for Power System Local Frequency and Voltage Measurements", International Engineering Power Conference, Singapore, May 17-20, 2001.
36. S. A. Soliman, R. A. Alammari, M. E. El-Hawary "Fuzzy Time Domain and Z-Transform Modeling for Harmonic Electric Loads", Arabian Journal for Science and Engineering, King Fahd University, Vol.26, No. 1B, 2001, pp.19-27.
37. R. A. Alammari, "On the Static Voltage Instability", 3rd Regional Conference of CIGRE Committees in Arab Countries, Doha, Qatar, Session 5, May 25-27, 1999.
38. R. A. Alammari, "Power System Voltage Security", 3rd Regional Conference of CIGRE Committees in Arab Countries, Doha, Qatar, Session 5, May 25-27, 1999.
39. R. A. Alammari, "The Voltage Collapse Problem Based on the Power System Loadability", Engineering Journal of the Univ. of Qatar, Vol.10, 1997, pp. 93-108.
40. K. L. Lo, R. A. Alammari, H. El-Khatroushi, M. Tumay, "Reactive Power Planning Incorporating System Security", Industrial Applications in Power Systems, Computer Science and Telecommunications, MELECON 96, Bari, Italy, May 1996, pp. 1567-1570.
41. K. L. Lo, R. A. Alammari, "Reactive Power Reserve Problem in the Qatar Power System", Proceedings of the 28th Universities Power Engineering Conference, Staffordshire University, Stafford, UK, Vol.2, September 1993, pp. 534-537.

Membership in Scientific and Professional Societies

- IEEE Senior Member, ASEE Member, GEDC Member

Institutional and Professional Services for the Past Five Years

Serve on many departmental, college and university committees. Participated in the Technical Advisory Board of the PowerGen,. Have been serving as a technical evaluator of research in QU, College of Applied Science, Kuwait, King Saud Univ, Saudi Arabia, Institution of Engineering and Technology (IET), UK