

CURRICULUM VITAE

PERSONAL INFORMATION

Name Abdullah Ibrahim Al-Odienat
Nationality Jordanian
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EDUCATION

1981-1986 BEE/ Power Systems Stream. NWFP University of Engineering & Technology (UET), Peshawar / Pakistan
1993-1998 Ph.D. in Electrical Power Systems, Tashkent State University, Tashkent /Uzbekistan

ACADEMIC EXPERIENCE

2022-present Dean of Faculty of Engineering / AAU/Jordan
2021-2022 Dean of Scientific Research Deanship/ Mutah University/Jordan
2020 – 2021 Head of Electrical Engineering Department/ Al-Ahliyya Amman University
2014 – 2020 Full Professor /Head of Power & Control Research Group
2012 – 2014 Deputy Dean/ Deanship of Scientific Research Mutah University/Jordan
2011 – 2012 Head of Electrical Engineering Department/ Taibah University/Yanbu/ KSA
2008 – 2010 Associate Professor/ DEE/Mutah University/Jordan
2005 – 2008 Head of Electrical Engineering Department/ Mutah University/Jordan
2001 – 2005 Assistant Professor/ DEE/Mutah University/Jordan
1998 – 2000 Assistant Professor/Head of DEE/ Al-Balqa University/Jordan
1988 – 1993 Engineer/ Lecturer/Trainer/ Tafila Polytechnic/Jordan

NONE-ACADEMIC EXPERIENCE

1986 – 1988 Power Engineer/ Jordanian Oil Refinery Company/ Zarka/Jordan

MEMBERSHIPS

1986—Now Jordan Engineering Association.
2018-Now Member of IEEE
2021-Now Cigre Membership

HONORS & AWARDS

- BEE scholarship, awarded by the Ministry of Education/Jordan
- PhD scholarship, awarded by Al-Balqa University/Jordan

SERVICE ACTIVITIES

- University Research Fellowship, awarded by Tashkent State University.
- Best paper presentation in 3rd International Conference on Power and Smart Grid (ICPSG 2020)
- Quality Assurance and Accreditation in Higher Education.
- Head of the Higher Technical Committee, CIGRE National Committee, Jordan
- Member in Scientific Research and Innovation Support Fund/Ministry of Higher Education and Scientific Research-Energy Sector
- Head of ABET Committee for the accreditation of the department programs.
- Member in the committees in the Jordanian Accreditation and Quality Assurance Commission for Higher Education Institutions (AQACHEI)
- Head of the postgraduate studies committee in the department.
- Head of Scientific Research Committee

IMPORTANT PUBLICATIONS

1. Abdullah I. Al-Odienat, "Training in Engineering Colleges", *2nd Arabic conference of The Arabic Union for Generation and Distribution of Electrical Energy*. 9-11 Nov. 1999, Khartoum, Sudan.
2. Abdullah I. Al-Odienat, "Mathematical Modeling of Synchronous Motor Dynamic Modes under Stochastic Processes", *14th European Simulation Multi-conference*, May 23-26, 2000, Ghent, Belgium.
3. Abdullah I. Al-Odienat, "Simulation Diagrams and Transfer Functions of High Rating Synchronous Motors", *12th European Simulation Symposium*, September 28-30, 2000, Hamburg, Germany.
4. Abdullah Al-Odienat. "The Automatic Load Shedding for Stability Security at Load Buses", *Journal of Applied Science*, 2(9), pp. 903-906, 2002.
5. Abdullah Al-Odienat, VN Avremenko, ", *Information Technology Journal*, Vol. 5, issue 6, 2003.
6. Abdullah Odienat, Ibrahim Rida, "Overview of wind energy potential for water desalination in Jordan", *International Engineering Conference – Mutah 2004*. 26-28 April 2004, Mutah University, Jordan.
7. Abdullah I. Al-Odienat. "The Identification of the Critical Oscillatory Modes in Multi-machine Power System", *Alexandria Engineering Journal. Elsevier*, Vol. 44, No. 5, Sep. 2005.
8. Abdullah I. Al-Odienat & Omar. Radaideh, "The Error Minimization of Digital Filter Used in Uniprocessor Protective Relaying for 6-33 KV Electrical Networks". *Journal of CIRCUITS, SYSTEMS, AND COMPUTERS*. World Scientific. Vol. 14 Number 5 October 2005, pp. 953-963.

9. Abdullah I. Al-Odienat. "Power System Blackouts: Analysis and Simulation of August 9, 2004 Blackout in Jordan Power System". *Information Technology Journal*, Vol. 5, 2006. pp. 1078-1082.
10. Omar. Radaideh & Abdullah I. Al-Odienat. "The Generalized Mathematical Model of Electrical Power System for the Optimal Power Flow". *ABHATH AL-YARMOUK*, Vol.15, No.2, 2006, pp. 365-376.
11. Abdullah I. Al-Odienat. "The mathematical Modeling and Simulation of Low Voltage Network for Harmonics Analysis". *International Mediterranean Modeling Multi-conference 2006*, Barcelona, Spain, Oct. 4th-6th 2006.
12. Abdullah I. Al-Odienat. "Neuro-controller for Synchronous Generator Excitation system". *Mutah Journal for Research and Studies*, Volume (22) Number (3), 2007.
13. Akram Fajr, Abdullah I. Al-Odienat, "Genetic Algorithm Based Tuned Neural Networks As applied to Power System Controllers ", *Mutah Journal for Research and Studies* Volume (22) Number (3), 2007.
14. Abdullah I. Al-Odienat, Akram Fajr. "Fuzzy logic neural network application in power system", 7th regional Conference Exhibition of CIGRE National Committees in Arab Countries. Cigre 2007, Amman, Jordan, 3-5 September 2007.
15. Abdullah I. Al-Odienat, Ayman A. Al-Lawama. "The Advantages of PID Fuzzy Controllers over the Conventional Types". *Science Publications/ American Journal of Applied Sciences* 5 (6): 653-658, 2008.
16. Abdullah I. Al-Odienat, "Wind Turbine Power Generation System: The implementation of an Adaptive Control System" *The First International Engineering Sciences Conference of Aleppo University* 2-4 November 2008.
17. Abdullah I. Al-Odienat, Tauseef Gulrez "Inverse covariance principal component analysis for power system stability studies" *Turkish Journal of Electrical Engineering & Computer Sciences*, Volume 22, Issue 1, pp. 57-65, 2014.
18. Abdullah I. Al-Odienat "Heterogeneous Information Fusion for the Voltage Stability Assessment of Next Generation Power Systems" *Mutah Journal for Research and Studies*, Vol.28. No. 2, 2013.
19. Abdullah I. Al-Odienat, "Adaptive Stabilizer of Single Machine Power System with Lossy System". WSEAS Transactions on power systems, 2014.
20. A.A. Abouelsoud, Reda Abobeah, Abdullah Al-Odienat. "Adaptive output feedback control of chemical batch reactor". *Journal of Control Engineering and Technology*. American V-King Scientific Publish. JCET Vol. 4 Iss. 3, PP. 205-209, July 2014.
21. Abdullah Al-Odienat, Reda Abobeah. "State Estimation of Binary Distillation Column with Unknown Feed Composition". *Mutah Journal for Research and Studies*, 2014.
22. Abdullah Al-Odienat, Amneh A. Al-Mbaideen. "Optimal Length Determination of the Moving Average Filter Using Independent Component Analysis for Power System Applications". *International Journal of Innovative Computing, Information and Control (ICIC)*, Tokai University, Japan, 2014.

23. Abdullah Al-Odienat, "The PID Controller Based on Genetic Algorithm for Voltage Stability of the Synchronous Machine". *International Journal of Innovative Computing, Information and Control (ICIC)*, Tokai University, Japan, Vol. 10, No. 6, 2014.
24. Abdullah Al-odienat, Tauseef Gulrez. "A New Perspective on Principal Component Analysis using Inverse Covariance". *The International Arab Journal of Information Technology*, Sep. 2015.
25. Abdullah. I. Al-Odienat, Khaled M. Alawasa, "Harmonics assessment and analysis at low voltage networks — Case study: Mutah University campus (Engineering building)," *2017 10th Jordanian International Electrical and Electronics Engineering Conference (JIEEEEC)*, Amman, 2017.
26. Abdullah. I. Al-Odienat and Khaled M. Alawasa, "Power Quality Characteristics of Residential Grid-Connected Inverter of Photovoltaic Solar System", *6th International Conference on Renewable Energy Research and Applications, ICRERA-2017*, 5-8/11/2017 San Diego, CA, USA.
27. Abdullah. I. Al-Odienat and M. Momani. "Global-Binary Algorithm; New Optimal Phasor Measuring Units Placements Algorithm". *Electric Power Components and Systems*, Taylor & Francis, Elsevier, 2019.
28. Khaled M. Alawasa and Abdullah. I. Al-Odienat, "Power Quality Investigation of Single-Phase Grid-Connected Inverter of Photovoltaic System". *Journal of Engineering and Technological Sciences*, 2019.
29. Abdullah. I. Al-Odienat, Khaled Al-Awasa Mohammad Al-Momani. "Connectivity Matrix Algorithm; New Optimal Phasor Measuring Unites Placement Algorithm". *3rd International Conference on Power and Smart Grid (ICPSG 2020)* proceeding, Kuala Lumpur, Malaysia, May 29-31, 2020.
30. Abdullah I. Al-Odienat, Banan Malahmeh, Awj R. Tarawneh, "The Optimal PMU Placement in the Power Systems for the Enhancement of State Estimation". *2nd International Conference on Electrical, ICECCE 2020 Communication and Computer Engineering* 14-15 June 2020 ISTANBUL, TURKEY.
31. Abdullah I. Al-Odienat Lana Tarawneh, Afnan Kasasbeh, "The Accuracy Evaluation of State Estimation in Smart Power Grids". *2nd International Conference on Electrical, ICECCE 2020 Communication and Computer Engineering* 14-15 June 2020 ISTANBUL, TURKEY.
32. Abdullah Al-Odienat, Khaled al-maitah, Batool al-khriesat, "The Improvement of Weighted Least Square State Estimation Accuracy Using Optimal PMU Placement", *WSEAS TRANSACTIONS on POWER SYSTEMS*, Volume 15, 2020.pp. 1-7.
33. Abdullah I. Al-Odienat, Awj R. Tarawneh, Banan Malahmeh, "Improved LEACH Protocol for Increasing Network Lifetime Based on Circular Patches Clustering". *Universal Journal of Applied Science* Vol. 7(1), pp. 8 – 17, 2020.
34. Abdullah Al-Odienat, Khaled Al-Maitah, Batool Al-Khriesat, "Monitoring High Voltage Power Lines Using Efficient WSN", *Journal of Advances in Energy and Power* 7(1): 10-19, 2020.
35. Abdullah Al-Odienat and Khaled Al-Maitah, "Wide Area Protection Scheme for Active Distribution Network Aided μ PMU", *7th Annual IEEE*

PROFESSIONAL
DEVELOPMENT ACTIVITIES

PES/IAS PowerAfrica Conference (PAC 2020). August 25 to August 28, 2020.

36. Abdullah Al-Odienat, Khaled Maitah “Local Decision Module for a More Reliable Wide Area Protection Scheme”, *International Journal of Innovative Computing, Information and Control*, Vol. 17, No. 2, 2021, , Tokai University, Japan, 2021

37. Khaled Al-Maitah, Abdullah Al-Odienat, “A New Wide Area Protection Scheme Based on Phase Angles of Sequence Components”, *Journal Electric Power Components and Systems*, Taylor & Francis, 2021.

38. Abdullah Al-Odienat, Khaled Al-Maitah, Batool Al-Khraisat, “The enhancement of Frequency Stability of Low Inertia Interconnected Power System”. *2021 IEEE PES/IAS PowerAfrica*, August 23-28, 2021.

39. Mohammad M. Almomani, Abdullah Al-Odienat, “The Impact of Wind Generation on Low Frequency Oscillation in Power Systems”. *2021 IEEE PES/IAS PowerAfrica*, August 23-28, 2021.

- Several International Conferences-Organizing and Scientific committees and sessions chair.
- Editor-in-Chief, Jordan Journal of Energy (JJE), Mutah University
- Reviewer in many Journals and Conferences in Electrical Engineering
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