PERSONAL INFORMATION

AHMAD A. SALAH

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King Hussein Bin Talal University Str, Ma'an, 71111, Jordan

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Ahmadsalah1985@ yahoo.com

Sex Male | Date of birth 14/02/1985 | Nationality Jordanian

Relationship Status | Married

WORK EXPERIENCE

Oct 2022 – Present

Director of International Relations Office

Al-Hussein Bin Talal University, Ma'an, Jordan

Dec 2023 – Present

Associate Professor

Department of Electrical Engineering, Engineering College

Al-Hussein Bin Talal University, Ma'an, Jordan

Sep 2020 – Oct 2022

Chair of Electrical Engineering Department

Engineering College

Al-Hussein Bin Talal University, Ma'an, Jordan

July 2019 – Dec 2023

Assistant Professor

Department of Electrical Engineering, Engineering College

Al-Hussein Bin Talal University, Ma'an, Jordan

March 2019 – July 2019

Casual Academic

Melbourne Institute of Technology, Sydney, Australia

154-158 Sussex St, Sydney NSW 2000

June 2018 – July 2019

Lecturer

College of Engineering and Science

Victoria University, Sydney, Australia

160 Sussex Street, Sydney 2000

Aug 2016 – Present

Casual Academic

Teaching and Learning Centre, Faculty of Engineering and IT

University of Technology Sydney, Sydney, Australia

City campus 15 Broadway Ultimo NSW 2007

Oct 2011- Aug 2014 **Maintenance Department Director**

Al-Hussein Bin Talal University, Ma'an, Jordan

May 2009- Oct 2011 **Equipment Engineer**

Computer Center & Information Technology

AL-Hussein Ben Talal University, Ma'an, Jordan

Committees:

- Central Tenders Committee
- Committee of procurement
- Receipt Committee Electrical Equipment
- Committee on Development of Renewable Energy Center
- Committee of Buildings Maintenance and Renovation

EDUCATION

2019 – 2020 Graduate Certificate in Tertiary Education GCTE

Victoria University, Sydney, Australia

160 Sussex Street, Sydney 2000

2014 – 2018 Ph.D. of Electrical Engineering

University of Technology Sydney, Sydney, Australia

City campus 15 Broadway Ultimo NSW 2007

2010 - 2012 Master of Science in Electrical and Computer Engineering (MSCE)

(Double Degree) New York Institute of Technology, NYIT-Amman campus

Jordan University of Science and Technology, Irbid, Jordan

2003 - 2008 B.Sc. − Electronics Engineering

Yarmouk University, Irbid, Jordan

PERSONAL SKILLS

Languages

- Arabic (Mother tongue)
- English: Fluent

Computer skills

- AutoCAD, MATLAB & Simulink, Homer, Altair Flux and Motor-CAD
- Highly experienced in the Microsoft Office Suite and Visio to produce Systems Engineering Diagrams
- International Computer Driving License (ICDL)

Courses Taught

- Electrical Measurements and Instruments
- Electrical Machines
- Electrical Distribution and Transmission

- Engineering Mathematics
- Operating System
- Renewable Energy Systems
- Projects (Undergraduate degree)
- Thesis (Master degree)
- Engineering Practice Reflection

PROFESSIONAL DEVELOPMENT

November 2021 **Renewable Energy Training Workshop**
Laboratory of Atmospheric Physics, University of Patras, Patras, Greece

October 2021 **Smart Grid and Grid Integration of Renewable Energy Systems**
Erasmus + program and implemented by German Jordanian University, Amman, Jordan

June 2021 **Supporting the Digital Transformations in Higher Education**
British Council and Ministry of Higher Education & Scientific Research, Amman, Jordan

September 2020 **Resource Efficiency in Industry - UNIDO TEST Methodology Training**
Switch Med Transfer of Environmentally Sound Technology (TEST) III project in, Jordan
United Nations Industrial Development Organization

December 2019 **Early Career Academics Training**
British Council, Amman, Jordan

October 2017 **FEIT Tutoring Skills Training**
University of Technology Sydney, Sydney, Australia

May 2013 - Apr 2013 **Training Course in Photovoltaic Principles, Design and Manufacturing.**
Philadelphia solar Ltd. Co, Amman, Jordan

Apr 2012 - Jul 2012 **Senior Management Training Course**
Al-Hussein Bin Talal University, Ma'an, Jordan

May 2012 -Jul 2012 **Training Course in Quantity Survey**
Engineers Training Center, Ma'an, Jordan

ADDITIONAL INFORMATION

Research interest:

My main research interests include fault detection of electrical machines, with a particular focus on Doubly Fed Induction Generators (DFIGs) used in wind turbines. Additionally, I am keenly interested in grid integration with renewable energy systems, as well as renewable energy systems design, and optimization in general.

Publications:

[1] "Design and Development of a Hybrid Electric Vehicle Charging Station in Jordan", **Ahmad A. Salah**; Mohammad M. Shalby; Mohammad Raja Al-Soeidat, 4th International Conference on Smart Grid and Renewable Energy, SGRE 2024, Doha, Qatar, DOI: 10.1109/SGRE59715.2024.10428957.

[2] "The Status and Potential of Renewable Energy Development in Jordan: Exploring Challenges and Opportunities.". **A, Salah**; Shalby, M.; Basim Ismail, F., Sustainability: Science, Practice and Policy, 2023, 19 (1), 2212517. DOI: 10.1080/15487733.2023.2212517

[3] "Impact of the Air Filtration in the Nacelle on the Wind Turbine Performance". M. Shalby, M. R. Gomaa, **A. Salah**, A. Marashli, T. Yusaf, and M. Laimon. Energies 2023 Vol. 16 Issue 9 Pages 3715.

[4] "An investigation of a 3D printed micro-wind turbine for residential power production" M. Shalby, **A. A. Salah**, M. Ghayda'A, A. Marashli and M. R. Gommaa. International Journal of Renewable Energy Development Vol. 12 Issue 3 Pages 550-559.

[5] "Few-Mode Optical Fiber Surface Plasmon Resonance Sensor with Controllable Range of Measured Refractive Index" Wael Abu Shehab, **Ahmad Salah**, Wael Al-Sawalmeh, Haitham Alashaary. International Journal of Electrical and Computer Engineering, Vol. 13, No. 1, February 2023, pp. 454~464ISSN: 2088-8708.

[6] "Design of a Concentrated Pilot Solar Power Tower in Al Hussein Bin Talal University, Jordan" **Ahmad A. Salah**, Mohammad M. Shalby, David G. Dorrell, the 14th IEEE PES Asia-Pacific Power and Energy Engineering Conference 2022 (APPEEC), November 2022, Melbourne, Australia (organised by IEEE PES Victorian chapter).

[7] "Evaluating and Enhancing the Energy Efficiency of Representative Residential Buildings by Applying National and International Standards Using BIM" MS Albdour, M Shalby, **A. A Salah**, F Alhomaidat, 2022, Energies 15 (20), 7763.

[8] "Assessment of Dust Properties in Ma'an Wind Farms in Southern Jordan" M Shalby, A Abuseif, MR Gomaa, **A Salah**, A Marashli, H Al-Rawashdeh Jordan Journal of Mechanical & Industrial Engineering 16 (4), 2022.

[9] "Control mechanism of unbalanced magnetic pull in doubly fed induction generator using extra pole‐specific stator windings" **A. A. Salah**, DG Dorrell, MM Shalby, 2022, IET Electric Power Applications.

[10] "Feasibility Study of Wind Energy Generation Systems in Masirah Island: Real Case Study" F. B. Ismail, M. N. Mahdi, **A. A. Salah**, N. F. Al-Muhsen, M. M. Shalby and Y. K. Al Nafie 2021 International Conference on Electrical Engineering and Informatics (ICEEI) 2021. Publisher: IEEE Pages: 1-6.

[11] "Experimental Investigation of the Small-scale Fixed Multi-chamber OWC Device" M. Shalby, A. Elhanafi, P. Walker, D. G. Dorrell, **A. Salah**, and M. R. Gomaa Chinese Journal of Mechanical Engineering 2021 Vol. 34 Issue 1 Pages 1-14.

[12] "A Review of the Monitoring and Damping Unbalanced Magnetic Pull in Induction Machines Due to Rotor Eccentricity", **A. Salah** and D. G. Dorrell, IEEE Transactions on Industry Applications, vol. 55, pp. 2569-2580, 2019.

[13] "The detection and suppression of unbalanced magnetic pull in wound rotor induction motors using pole-specific search coils and auxiliary windings," **A. Salah** and D. G. Dorrell IEEE Transactions on Industry Applications, vol. 53, no. 3, pp. 2066-2076, 2017.

[14] "Detection of rotor eccentricity in wound rotor induction machines using pole-specific search coils," **A. Salah** and D. G. Dorrell IEEE Transactions on Magnetics, vol. 51, no. 11, pp. 1-4, 2015.

[15] "Operating Induction Machine in DFIG Mode Including Rotor Asymmetry" **A. Salah** and D. G. Dorrell in 2019 Southern African Universities Power Engineering Conference/Robotics and Mechatronics/Pattern Recognition Association of South Africa (SAUPEC/RobMech/PRASA), IEEE ACCREDITATION APPROVED, 2019, pp. 469-474.

[16] "Predicting the behavior of induction machine using Motor-CAD and MATLAB packages," **A. Salah**, Y. Guo, and D. G. Dorrell, IEEE CPE-POWERENG, Doha, April 2018.

[17] "Rotor fault analysis in a doubly-fed induction generator using impedance matrix technique," **A. Salah**, Y. Guo, and D.G. Dorrell, IEEE International Magnetics Conference (INTERMAG), 2017, pp. 1-2, 2017.

[18] "Analysis of DFIG machine with rotor-wound faults", **A. Salah**, Y. Guo, and D. G. Dorrell, IEEE AFRICON, 2017, South Africa, pp. 1301-1306, 2017.

[19] "Monitoring and damping unbalanced magnetic pull due to eccentricity fault in induction machines: Electrical Machines and Systems" **A. Salah**, Y. Guo, and D. G. Dorrell, International Conference on Electrical Machines and Systems, ICEMS, Sydney, Australia, pp. 1-6, 2017.

[20] "Impedance matrix analysis technique in wound rotor induction machines including general rotor asymmetry," **A. Salah**, Y. Guo, and D. G. Dorrell, IEEE International Conference on Industrial Electronics, IECON, Florence, Italy, pp. 1821-1826, 2016.

[21] "The detection and suppression of Unbalanced Magnetic Pull in Wound Rotor Induction Motors Using Pole-Specific Search Coils and Auxiliary Windings," D. G. Dorrell, **A. Salah**, and O. Kayani, IEEE Energy Conversion Congress and Exposition, ECCE, 2015, pp. 277–284. doi: 10.1109/ECCE.2015.7309699.

[22] "Detection of rotor eccentricity in wound rotor induction machines using pole-specific search coils," D. G. Dorrell and **A. Salah**, IEEE International Magnetics Conference (INTERMAG), 2015, pp. 1-1, 2015.

Attended Conferences

[1] 4th International Conference on Smart Grid and Renewable Energy, SGRE 2024, Doha-Qatar.

[2] The 14th IEEE PES Asia-Pacific Power and Energy Engineering Conference, APPEEC 2022, Melbourne, Australia (organised by IEEE PES Victorian Chapter).

[3] International Conference on Electrical Machines and Systems, ICEMS 2017, Sydney, Australia.

[4] IEEE International Magnetics Conference, INTERMAG 2017, Dublin; Ireland.

[5] IEEE International Conference on Industrial Electronics, IECON 2016, Florence, Italy.

Honors & awards:

Feb 2023	Erasmus+ International Credit Mobility at University of Malaga- Training mobility University of Malaga, Malaga, Spain.
July 2022	University of Minho Overseas Mobility Experience- Training Mobility University of Minho, Braga, Portugal.
May 2022	Higher Education funding of the project energy efficiency for residential buildings by 25,200 JD Al-Hussein Bin Talal University, Ma'an, Jordan.
Aug 2019	Scholarship to study Graduate Certificate in Tertiary Education Victoria University, Malborne, Australia.
Aug 2016	Vice-Chancellor's Postgraduate Conference Travel Fund University of Technology Sydney, Sydney, Australia
March 2014	Scholarship for PhD in Electrical Engineering Al-Hussein Bin Talal University, Ma'an, Jordan.

International Projects:

[1] 2019– 2023: Member of IREEDER Project co-funded by the Erasmus + program of the European Union: updating the electrical engineering curricula for undergraduate students by introducing the latest technological developments, including the Internet of Things, renewable energy, and cybersecurity, with a total budget of 800,000 Euros.

[2] 2022– 2024: Member of Dual Study Program "Market Oriented Vocational Training" project (reference number 16.2158.0-002.00), which is funded by The German Agency for International Cooperation (GIZ), with a total budget of 100,000 Euros.

Memberships:

Jun 2016 – Present	IEEE Industry Applications Society, the IEEE Young
Jun 2016 – Present	IEEE Young Professionals and IEEE Power Electronics Society
Jun 2016 – Present	Institute of Electrical and Electronics Engineers/ IEEE
Jul 2008 – Present	Jordan Engineering Association (JEA)

Certifications and references:

Internet Multimedia

https://scholar.google.com/citations?hl=en&user=zAdreOQAAAAJ

https://www.uts.edu.au/staff/ahmad.salah

https://orcid.org/0000-0002-3049-9821

https://www.linkedin.com/in/ahmad-salah-0b2057122/

https://www.researchgate.net/profile/Ahmad_Salah8

https://publons.com/researcher/3343998/ahmadsalah/

http://www.ahu.edu.jo/View_Articlear.aspx?type=9&ID=0&drid=2353