



Anas Al Tarabsheh,

Associate Professor of Electrical Engineering,
IEEE Senior Member
AdvanceHE Fellow

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PERSONAL DATA

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EDUCATION

- PhD in Electrical Engineering, University of Stuttgart, Institute of Photovoltaic, Germany, Dissertation: "Amorphous silicon solar cells" Supervisor: Prof. Dr. habil. J. H. Werner
- MSc in Electrical Engineering, Jordan University of Science and Technology, Electrical Engineering Department Thesis: "On the Application of Double-Talk Detection to Stereophonic Acoustic Echo Cancellation". Supervisor: Prof. K. Mayyas
- BSc in Electrical Engineering, Jordan University of Science and Technology, Electrical Engineering Department.

2007
2003
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1996

PRACTICAL EXPERIENCE

- Fabricating and characterizing thin films by PECVD - University of Stuttgart, Institute of Photovoltaic, Germany.
- Technical member for the tender of "Design, supply, delivery, installation, testing, and commissioning of 5-MW DC grid-connected photovoltaic systems at the Hashemite University, Jordan

2007
2003
2014
2013

PATENTS

- Al Tarabsheh, "MODIFIED PHOTOVOLTAIC WIND HYBRID SYSTEM", US20180372073A1 - 15/995,760, (Granted)
- Al Tarabsheh, "Deformable Photovoltaic Wind Hybrid Systems", Applied to USA and UAE,

2020
2021

FELLOWSHIP

My AdvanceHE 2022 In recognition of attainment against the UK Professional Standards Framework for teaching and learning support in higher education.
Fellowship reference PR232456
Date of Fellowship 15/02/2022

TEACHING EXPERIENCE

LANGUAGES

Arabic: Native Language
English: Excellent
German: Good

RESEARCH INTERESTS

- Semiconductor Materials
- Photovoltaic Cells and Systems
- Electronic Devices and Circuits
- Renewable Energy

- Associate Professor (Unpaid leave from the Hashemite University) at the Electrical, Computer, and Biomedical Engineering Department in Abu Dhabi University-UAE
- Visiting Associate Professor (Sabbatical leave from the Hashemite University) at the Electrical Engineering Department in the American University of Sharjah-UAE
- Associate Professor at the Electrical Engineering Department in the Hashemite University-Jordan
- Assistant Professor at the Electrical Engineering Department in the Hashemite University-Jordan
- Adjunct Faculty the Electrical Engineering Department in the German-Jordan University
- Teaching Assistant at the Electrical Engineering Department in the Hashemite University-Jordan

Now
 2015
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 2002

SUPERVISION-MASTER LEVEL

COURSES TAUGHT

➤ Undergraduate

1. Advanced Digital System
2. Digital Logic and Digital Circuits
3. Electric Circuits I
4. Electric Circuits II
5. Power Electronics
6. Power Systems
7. Special Topics in EE
8. Electronics I
9. Electronics II
10. Photovoltaics
11. Power Distribution
12. Analog and Digital Electronics
13. Energy Conversion
14. Renewable Energy
15. Intro. to Elec./Comp. Eng.

- Hamza Smadi, " **Impact of Temperature on Photovoltaic Cells Performance**", Albert-Ludwigs-University of Freiburg, Department of Microsystems Engineering, Germany 2017
- Mohammed Hareb, " **Optimal Allocation of Multiple Microgrids in The Main Grid**", Electrical, Computer, and Biomedical Engineering Department, Abu Dhabi University. 2018
- Hamda Hittawi, " **Performance of Photovoltaic Power Plants in Dubai**", Electrical, Computer, and Biomedical Engineering Department, Abu Dhabi University. 2019
- Amna Al Ameri, " **PV battery power charging using MPPT and super capacitor**", Electrical, Computer, and Biomedical Engineering Department, Abu Dhabi University. 2019
- Ossama Abu Elkheir, " **Energy harvesting for Road Safety IoT Devices**", Electrical, Computer, and Biomedical Engineering Department, Abu Dhabi University. 2020
- Ayat Abu Sbeih, " **Energy Management in Electric Vehicles**", Electrical, Computer, and Biomedical Engineering Department, Abu Dhabi University. 2021
- Mohammad Lutfi Isaied, " **Analysis of Deformable PV-Wind Hybrid Systems** ", Electrical, Computer, and Biomedical Engineering Department, Abu Dhabi University. 2021

- 16. Internship
- 17. Aircraft Systems
- 18. Senior Design Projects
- 19. Photovoltaic Semiconductors
- 20. Electric Circuits and Devices
- 21. Statistical Analysis.
- 22. Digital Electronics
- 23. Semiconductors
- 24. Optical Fiber Communications
- 25. Signals & Systems

➤ **Postgraduate**

- 1. Integrated Circuits Design
- 2. Advanced Mixed-Mode ICs
- 3. Smart Grids

TRAINING COURSES

- Introduction to photovoltaic cells, modules, and systems
- Design of stand-alone and grid-connected PV systems
- MATLAB applications for Electrical Engineering students

GRANTS

- **"Modeling of Bifacial Photovoltaic Modules in UAE"**, PI, Funding amount of AED 40,000, ADU Office of Research and Sponsored Programs 2022. 2022
- **"Deformable Model for Performance Enhancement of Photovoltaic-Wind Hybrid Systems "**, PI, Funding amount of AED 24,000 TAKAMUL (DED Grants) 2021
- **"RE_Wind "**, PI, Funding amount of AED 36,000 , Research office 2021
- **"Performance of photovoltaic modules under different cooling techniques"**, PI, Funding amount of AED 20,000 Action research grant (ADU Research Grants) 2019
- **"Automatic Detection of Defects in Solar Panels Using Aerial Thermal Imaging"**, PI, Funding amount of AED 35,000 , Center of Excellence on Smart Services for Smart Cities at Abu Dhabi University 2018
- **"Investigation of Stability and Power Quality in Renewable Rich Microgrids"**, CO-PI, Funding amount of AED 40,000 ,Center of Excellence on Smart Services for Smart Cities at Abu Dhabi University 2017
- **"Impact of Distributed Generation on Protective Relay Coordination in Distribution Networks"**, CO-PI, Funding amount of AED100,000 , Center of Excellence on Smart Services for Smart Cities at Abu Dhabi University 2016
- **"Characterization of thin films" --- DFG Corporation**, Funding amount of \$8,000, Fellowship for Guest, Stuttgart University, Germany 2010

HONORS

- "Technology-Innovation-Pioneer EnviroTech Award" **Ambassador**, Department of Economic Development in Abu Dhabi 2019
- Senior Member, IEEE 2017
- Stuttgart University Scholarship, Germany 2006
- Hashemite University Scholarship, Jordan 2003
- Jordan University of Science and Technology: Teaching Scholarship to get a M.Sc. in Electrical Engineering, 2000

AWARDS

1. Winning the **second place** in the *National Technology Parade*, Renewable Energy Track.
Project: High Performance Hybrid Vertical Wind-Solar System 2010
Second place prize : 500 JD
Sponsor: the Ministry of Communication
2. Winning the **First Place** in the *Innovation week in UAE* in 2016. The competition in University of Sharjah 2016
Project: Modified Photovoltaic Wind Hybrid System
Sponsor: the UAE Telecommunication Regulatory Authority (TRA), University of Sharjah
Prize: 50,000 AED.
3. Winning the **first place** (People's choice - postgraduate category) & the **runner-up** prize (Judges' choice - postgraduate category) in the *Future Generation Competition and Middle East Electricity Awards*, in Dubai World Trade Center, UAE. 2017
Project: Modified Photovoltaic Wind Hybrid System
Sponsor: Middle East Electricity Awards.
4. Shortlisted finalist in "*The UAE Drones For Good*" (Drones/ AI & Robotics), in Dubai Internet City Amphitheatre, under the patronage of HHS Hamdan bin Mohammed Bin Rashid Al Maktoum, the crown prince of Dubai. 2017
Project: Smart High Robot
5. Winning the **third place** in the *12th MAC Mobile Application Contest*. The competition was held in Khalifa University 2017
Project: Diabetes Watch: Monitoring of Blood Glucose Level
Sponsor: Khalifa University
Third Place Prize: 5,000 AED.
6. Winning the **first place** (People's choice - postgraduate category) in the *Future Generation Competition and Middle East Electricity Awards*, in Dubai World Trade Center, UAE. 2018
Project: Design and Analysis of Solar Updraft Tower
Sponsor: Middle East Electricity Awards.

7. Winning the **first place** (People's choice - undergraduate category) and the **second place** (Judges' choice) in the *Future Generation Competition and Middle East Electricity Awards*, in Dubai World Trade Center, UAE. 2019
Project: Photovoltaic Energy for Seawater Desalination in UAE
Sponsor: Middle East Electricity Awards.
8. Winning the **second place** (People's choice - postgraduate category) in the *Future Generation Competition and Middle East Electricity Awards*, in Dubai World Trade Center, UAE. 2019
Project: Viability Study of Photovoltaic Systems Floating on Water Surfaces in UAE
Sponsor: Middle East Electricity Awards.
9. Winning **first place** in *Think Science Competition*, held in Khaliah University, UAE. 2019
Project: an Autonomous and Sustainable Sea Cleaning Robot
Sponsor: Emirates Foundation.
10. Shortlisted in the *Future Generation Competition and Middle East Electricity Awards*, in Dubai World Trade Center, UAE. 2020
Project: Energy Harvesting Illuminated Window
11. Winning the **second place** in the *X-Research competition* organized by Skyline University College along with the sponsorship of Zesty Online Scholarly Research and Literature Platform, Al Rewaya for Book Publishing and Distribution, Panworld Education. 2021
Project: Smart Photovoltaic Modules
12. Winning **first place** at the *8th Undergraduate Virtual Research Competition* organized by Abu Dhabi University. With 87 universities participating in 315 projects from across the MENA region, our work has come out on top. 2021
Project: Reacher: AI and Computer Vision-Based Robot Teaching Assistant
Sponsor: Office of Research and Sponsored Programs
First Place Prize: 4,700 AED.
13. Winning **first place** of the *VPS Innovation in Sustainability Award*. The United Nations Sustainable Development Goals (SDGs) represent an achievable action plan for us and our environment to truly thrive by 2030. With 160 projects participating from across the MENA region, our work has come out on top. 2021
Project: IntelliSeaCleaner: An Autonomous and Sustainable Sea Cleaning Robot
Prize: \$10,000 scholarship.

PUBLICATIONS- JOURNALS

1. **A. Al Tarabsheh**, M. Yaghi, A. Younis, R. Sarker, S. Moussa, Y. Eldigair, H. Hajjdiab, A. El-Baz, and M. Ghazal, "Towards Contactless Learning Activities during Pandemics Using Autonomous Service Robots", *Applied Sciences – Section: Robotics and Automation, Special Issue: Smart Robots for Industrial Applications*, **2021**.
2. I. Etier, **A. Al Tarabsheh*(corresponding)**, "Shunt Resistance Spatial Variations in Amorphous Silicon Photovoltaic Cells", *Microelectronics Journal*, **2021**.
3. **A. Al Tarabsheh**, M. Akmal, M. Ghazal, "Improving the Efficiency of Partially Shaded Photovoltaic Modules without Bypass Diodes," *Electronics MPDI*, Vol.10, pp. 1046, **2021**.

4. M. Halabi, **A. Al Tarabsheh**, "Modelling of Electric Vehicles Using Matlab/Simulink," the SAE International Journal of Commercial Vehicles, **2020**.
5. Yasmin Abu-Haeyeh, Muhammad Akmal, **Anas Al Tarabsheh**, "Cooperative Intrusion Detection System for Advanced Metering Infrastructure," Submitted to the Sustainable Energy, Grids and Networks, **2020**.
6. **A Al Tarabsheh**, MAM Hareb, MR Kahla, "Photovoltaic-wind hybrid turbine system", **US Patent** 10,612,522. **2020**.
7. A. Al Tarabsheh, M. Akmal, M. Ghazal, "Series Connected Photovoltaic Cells - Modelling and Analysis", Sustainability Journal, Vol. 9, pp. 371-380, **2017**.
8. I. Etier, M. H. Abderrazzaq, **A. Al Tarabsheh**, O.A. Saraereh and M. AlBdour, "The impact of large scale photovoltaic systems on the harmonic increase in distribution networks", Jordan Journal of Mechanical and Industrial Engineering, Vol. 10 No. 4, pp. 239-244, **2016**.
9. **A. Al Tarabsheh**, I. Etier, H. Fath, A. Ghazal, Y. Morci, M. Asad, A. El Haj, "Performance of Photovoltaic Cells in Photovoltaic Thermal (PVT) Modules", IET Renewable Power Generation (IEEE Xplore), Vol. 10 (7), pp. 1017–1023, Aug. **2016**.
10. Ali Q. Al-Shetwi, Muhamad Zahim Sujod, **A. Al Tarabsheh**, and Ibrahim A. Altawil, Design and Economic Evaluation of Electrification of Small Villages in Rural Area in Yemen Using Stand-Alone PV System, International Journal of Renewable Energy Research, Vol 6, No 1, **2016**.
11. **A. Al Tarabsheh**, Description of the Ideality Factor of a-Si:H Photovoltaic Cells Under Different Illumination Intensity Levels, Journal of Renewable and Sustainable Energy, DOI: 10.1063/1.4918286, Vol. 7, Issue, 2, **2015**.
12. Omar A. Saraereh, Qais Alsafasfeh, **A. Al Tarabsheh**, and Issa Etier, Least Squares Fitting Based Fault Classification in Distribution Systems, Journal of Energy and Power Engineering, Vol. 8, pp: 560-567, **2014**.
13. **A. Al Tarabsheh** , Voutetakis S., Papadopoulos A.I., Seferlis P., Etier I., and O. Saraereh, Investigation of Temperature Effects in Efficiency Improvements of Non-Uniformly Cooled Photovoltaic Cells, Chemical Engineering Transactions, Vol. 35, **2013**.
14. Mohammad S. Widyan, Ghassan. S. Marji, and **A. Al Tarabsheh**, Dynamic and Steady-State Operational Performance of Induction and Synchronous Reluctance Motors Powered by PV Generator with MPPT, International Review of Automatic Control (Theory and Applications) – Vol. 5 N. 6, 2012.
15. **A. Al Tarabsheh**, Issa Etier, Ahmed Nimrat, Energy Yield of Tracking PV Systems in Jordan, International Journal of Photoenergy, Vol. 2012, doi:10.1155/2012/890183, Article ID 890183, 5 pages, 2012.
16. **A. Al Tarabsheh**, Issa Etier, Mohammad Widyan, Investigating the Shunting Effects of Parallel-Connected A-Si:H Solar Cells, International Journal of Sustainable Energy, Published online DOI:10.1080/14786451.2011.592587, ISSN 1478-6451 print/ISSN 1478-646X online, pp. 1- 7, 2011.
17. **A. Al Tarabsheh**, Issa Etier , Analysis of the Ideality Factor of a-Si:H Solar Cells, Journal of Solar Energy Engineering, Vol 133, No.1, pp. 011012/1-5, 2011.
18. Mohammad S. Widyan, **A. Al Tarabsheh**, Issa Y. Etier and Rolf E. Hanitsch , Transient analysis and output characteristics of dc motors fed by photovoltaic systems, Jordan Journal of Mechanical and Industrial Engineering Vol.4. No.1, pp.193-204, 2010.

19. Issa Etier, **A. Al Tarabsheh**. Mohammad Ababneh, Analysis of Solar Radiation in Jordan, Jordan Journal of Mechanical and Industrial Engineering (JJMIE), Vol. 4, No. 6, pp. 190 – 197, 2010.
20. Mohammad S. Widyan, **A. Al Tarabsheh**, Issa Y. Etier and Rolf E. Hanitsch, Dynamic and Steady-State Characteristics of DC Machines Fed by Photovoltaic Systems, International Journal of Modelling and Simulation, Vol. 30, No. 3, pp. 353-360, 2010.

PUBLICATIONS- CONFERENCES

1. Tasnim Basmaji, **Anas Altarabsheh**, Huma Zia, Hassan Hajjdiab, and Mohammed Ghazal, "Towards Urgent and Rapid Deployment of Contactless IoT Elevator Control Panel during Pandemics", Quwa: Empowering Women in Research and Innovation", **2021**.
2. Muhammad Akmal, Faris Al-Naemi, Nusrat Iqbal, **Anas Al-Tarabsheh**, Lasantha Meegahapola, "Impact of Distributed PV Generation on Relay Coordination and Power Quality", The 3rd IEEE PowerTech at Bovisa Campus of Politecnico di Milano, Italy, June 23-27, **2019**.
3. **A. Al Tarabsheh**, M. Akmal, "Calculation of the Shunt Resistance across the Absorber Layer of Hydrogenated Amorphous Silicon Photovoltaic Cells", the 6th International Conference on Electrical and Electronics Engineering (ICEEE 2019), Istanbul, Turkey April, 16-17, **2019**.
4. M. Akmal, A. Jawad, **A. Al Tarabsheh**, "Design and Simulation of Solar Grid-Connected Charger for Electric Vehicles", UKSim-AMSS 20th International Conference on Modelling & Simulation, Cambridge University, 27 - 29 March **2018**.
5. **A. Al Tarabsheh**, M. Akmal, Y. Saleem, A. Ali, A. Zourob, A.Hamid, I. Zuhair, M. Ghazal, "Viability study of floating photovoltaic systems", Energy Systems Conference, QEII London UK, June 19-20, **2018**.
6. J. Ninan, Y. Othman, **A. Al Tarabsheh**, "Resistorless Low-power Voltage Reference", Smart Cities Symposium 22-23 April **2018**, University of Bahrain, In Collaboration with The Institution of Engineering and Technology, UK.
7. M. Al Halabi, Nusrat, A. Rashed, **A. Al Tarabsheh**, "Modelling of SiC Power MOSFET in Matlab, Simulink, and LTSpice", IEEE 18th International Conference on Environment and Electrical Engineering and 2nd Industrial and Commercial Power Systems Europe, Palermo, Italy, June12-15, **2018**.
8. M Ghazal, A Khalil, T Al Hadithy, **A Al Tarabsheh**, S Ali, "IntelliMeet: Collaborative Mobile Framework for Automated Participation Assessment", 5th International Conference on Future Internet of Things and Cloud Workshops (FiCloudW) , ISBN: 978-1-5386-3281-9, pp. 227-232, Aug. 21- 23, **2018**.
9. **A. Al Tarabsheh**, M. Akmal, M. Hareb, "Analysis of Photovoltaic Modules Attached with a Vertical-Axis Wind Turbine", the 6th International Conference on Clean Electrical Power, Italy, 27-29 June, **2017**.
10. M. Chabnari, A. Khairaldin, B. Salaas, S. Ismail, O. Akram, M. Ghazal, **A. Altarabsheh**, R. Kanan, and L. Fraiwan, "Wearable Glucometer with a Culturally-focused Diabetes Control App", the 10th Multidisciplinary Academic Conference in Prague, Czech Republic, 26-27 May, **2017**.

11. M. Akmal, S. Ali, Y. Khalil, S. Alzaabi, and **A. Al Tarabsheh** "Integration of Solar Energy and Optimized Economic Dispatch Using Genetic Algorithm: A Case-study of Abu Dhabi", 2017 IEEE Innovative Smart Grid Technologies, Washington DC, April, **2017**.
12. **A. Al Tarabsheh**, I. Etier, M. Akmal, A. Sweleh, M. Ghazal, "Modeling of Series-Connected Photovoltaic Cells", 43rd IEEE Photovoltaic Specialists Conference, Portland, USA, June 5-10, **2016**.
13. **A. Al Tarabsheh**, M. Akmal, M. Ghazal, M. Hareb, M. Kahla, A. Qadir, E. Mohammad "A Modified Hybrid Photovoltaic Wind System", International Conference on Renewable Power Generation, IET London Savoy place, United Kingdom, September 21st -23rd , **2016**.
14. M. Akmal, M. Ghazal, **A. Al Tarabsheh**, and A. ElKashif "Impact of Distributed Generation on Protective Relay Coordination in Distribution Networks", 16th IEEE conference on Environment and Electrical Engineering, Florence, Italy, Jun., 7th -10th , **2016**
15. M. Akmal, M. Ghazal, **A. Al Tarabsheh**, and A. ElKashif "Demand Response Enabled Sustainable Smart Home Design in the Middle East Environment", 51st International Universities' Power Engineering Conference 6–9 September, Coimbra, PORTUGAL, 2016.
16. I. Etier, **A. Al Tarabsheh**, R. Alqaisi, "Optimization and Simulation of IGBT Inverter Using PWM Technique", International Conference on Water, Energy and Environment (ICWEE 2015), in Sharjah, UAE, 24-26 March **2015**.
17. I. Etier , M. H. Abderrazzaq , **A. Al Tarabsheh** , and M. Al Bdour, "The impact of large scale photovoltaic systems on the harmonic increase in distribution networks", International Conference on Water, Energy and Environment (ICWEE 2015), in Sharjah, UAE, 24-26 March **2015** .
18. **A. Al Tarabsheh**, I. Etier , H. Abu Tin, Y. Morci, M. Asad, A. El Haj, H. Fath, A. Ghazal, "Performance of Non-uniformly Cooled-PV modules", International Conference on Water, Energy and Environment (ICWEE 2015), in Sharjah, UAE, 24-26 March **2015** .
19. Issa Etier, **A. Al Tarabsheh**, A. Atyat, B. Abu Al-Hawa, M. Al-Shattel, M. Abd Al-Qader, O. Al-Rousan, T. Al-Maharmeh, Y. Al-Saidi ,RESIDINTAIL CONSTRUCTION POWERED BY PV GRID-CONNECTED SYSTEM, International Conference and Exhibition on Green Energy & Sustainability for Arid Region & Mediterranean Countries, June 2011, Amman, Jordan 2011.
20. **A. Al Tarabsheh**, Issa Etier, Potential of One-Axis and Two-Axis Tracking Photovoltaic Systems, International Conference on Energy, Water & Environment Amman, Jordan, 12-15 December, Vol.3, pp. 81-85, 2010.
21. **A. Al Tarabsheh** , M. B. Schubert ,Mohammad S. Widyan, Issa Etier, J. H. Werner, "A qualitative study of the shunt resistance of parallel-connected amorphous silicon solar cells", International Conference and Exhibition on Green Energy & Sustainability for Arid Region & Mediterranean Countries, Amman, Jordan 2009.
22. **A. Al Tarabsheh**, Mohammad S. Widyan, Issa Y. Etier. Shunt Resistance of Series–connected a-Si: solar cells. International Conference and Exhibition on Green Energy & Sustainability for Arid Region & Mediterranean Countries, Amman, Jordan 2009.
23. Issa Etier, **A. Al Tarabsheh**, Mohammad Ababneh Investigation of Solar Energy in the Hashemite University International Conference and Exhibition on Green Energy & Sustainability for Arid Region & Mediterranean Countries, Amman, Jordan 2009.
24. Mohammad S. Widyan, **A. Al Tarabsheh**, Issa Y. Etier and Rolf E. Hanitsch , Transient analysis and output characteristics of dc motors fed by photovoltaic systems. International

- Conference and Exhibition on Green Energy & Sustainability for Arid Region & Mediterranean Countries, Amman, Jordan 2009.
25. Christos Monokroussos, **A. Al Tarabsheh**, R. Gottschalg, A.N. Tiwari, Modelling the effects of electronic parameters on the efficiency of amorphous silicon solar cells under AM1.5G spectrum, Workshop on Modelling of Thin Film Solar Cells Wednesday 28 March – Friday 30 March 2007, Gent – Belgium.
 26. **A. Al Tarabsheh**, M. B. Schubert, and J. H. Werner, Characterization of amorphous silicon based photovoltaic modules, PV-UNI-NETZ, 23-24 November, Hamburg, Germany, 2006.
 27. **A. Al Tarabsheh**, M. B. Schubert, Parallel resistance of integrated amorphous silicon solar cells, Global Conference on Renewable Energy Approaches for Desert Regions [GCREADER], 18-22 September, Amman, Jordan, 2006.
 28. **A. Al Tarabsheh**, U. Rau, and M. B. Schubert, Novel analytical description for the current/voltage curve of p-i-n solar cell, 21st European Photovoltaic Solar Energy Conference and Exhibition, Dresden, Germany, , p. 1677-179, 2006
 29. **A. Al Tarabsheh**, M. B. Schubert, and J. H. Werner, Effect of the illumination intensity on a-Si:H solar cells, 11th Euregional Workshop on Thin Silicon Devices, 2-4 February, Delft, The Netherlands, 2005
 30. **A. Al Tarabsheh**, M. B. Schubert, and J. H. Werner, Amorphous silicon solar cells under different illumination levels, German Physical Society, 4-9 March, Berlin, Germany, 2005.

COMPUTER SKILLS

- Arduino Uno
- MATLAB
- Advanced Semiconductor Analysis (ASA)
- PVSOL,
- Sunny-Design,
- PSPICE
- PVSYST.
- E-learning tools
- VHDL language

ACTIVITES

1. Member in the Scientific Committee of the International Conference and Exhibition on Green Energy & Sustainability for Arid Region & Mediterranean Countries, Amman, Jordan. 2009
2. Member in the Organizing & Scientific Committees of the Jordan International Conference on Energy, Amman, Jordan 2011.
3. Chair of the Outcomes Assessment and Accreditation Committee at the Department of Electrical and Computer Engineering in Abu Dhabi University 2011
4. Subject Matter Expert – Power / Abu Dhabi ADU Smart City Center of Excellence (Abu Dhabi) 2017
5. Judge in the 4th and the 5th UAE Undergraduate Student Research Competition held in Abu Dhabi University Campus 2017
6. Judge for the 3rd and the 4th Interschool Scratch Competition held in Abu Dhabi University Campus. This is an annual competition, in which high school students from Abu Dhabi develop projects based on the Scratch tool and present them on the day of the event. 2016, 2017
7. Organizing committee member in the IEEE IST 2019 conference 2016, 2017

8. Judge in the national Think-Science Competition held in Abu Dhabi, under the patronage of H.E. Hussain Ibrahim Al Hammadi, the Minister of Education. 2019
9. Advisory committee member in the 8th International Conference on Recent Challenges in Engineering and Technology (ICRCET-2020). 2019
10. Member in the International Advisory committee of the International Conference on "Applied Sciences, Engineering, Technology and Management", 27th May, 2020, Dubai. 2020
11. Judge in the 7th of the UAE Undergraduate Student Research Competition held in Abu Dhabi University Campus. 2020
12. Judge in the 1st Annual STEM Programming Competition in Abu Dhabi University Campus. 2021

EDITORIAL BOARD

1. International Journal of Energy and Power Engineering
2. Progress in Energy & Fuels Journal
3. Journal of Taibah University for Science

REFERENCES

Upon request

