

Curriculum Vitae



- Full Name ; Abdulgader H. Abdulgader ALSHARIF.
Place & Date of birth ; 2/6/1987 Murzuq-Libya
The Social status ; Married with 2 children
Orcid ID ; 0000-0003-3515-4168
Google Scholar ID ; Abdulgader Alsharif (-kWt1IMAAAAJ)
The scientific Qualification ;
 - PhD from UTM 2023
 - Master's Degree Diploma in Electrical and Computer Engineering from Altınbaş University-Istanbul (2018) with thesis
 - Master's Degree Diploma in Electric and Electronic Engineering from the University of Turkish Aeronautical Association -Ankara (2016) without thesis.
 - Solar Energy Course from German company Falioun (2016)-Istanbul-Turkey
 - High Diploma in General Telecommunications Engineering Faculty of civil aviation technology & metrology (Asbiaa college–Tripoli – Libya).
 - Certificate of Memorizing Holy Quran-Libya.
 - SAP ERP Course in Cape Town- South Africa.
- Memberships ;
 - IEEE Power Electronics Society (PELS) (96883310)
 - EAI
 - Member of National Designation Authority (NDA) -Libya
- Training courses ;
 - Basic Solar energy systems (off-grid systems)
 - AI tools in scientific research
 - Write article
 - Mendeley
 - Visio
- Journal Publication :
 1. Nassar, Yasser F., Hala J. El-khozondar, Abdussalam A. Ahmed, Abdulgader Alsharif, Mohamed M. Khaleel, and Rifa J. El-Khozondar. "A new design for a built-in hybrid energy system, parabolic dish solar concentrator and bioenergy (PDSC/BG): A case study–Libya." *Journal of Cleaner Production* (2024): 140944.
 2. Al Smin, Ahmed Moh A., Alkbir Munir Faraj Almabrouk, Sairul Izwan Safie, Mohd Al Fatihhi Mohd Szali Januddi, Mohd Fahmi Hussin, and Abdulgader Alsharif. "Enhancing solar hybrid system efficiency in Libya through PSO & flower pollination optimization." *Progress in Energy and Environment* (2024): 23-31.
 3. Nassar, Yasser, Abubaker Alatrash, Rahma Elzer, Ali Alkhazmi, Hala El-Khozondar, Abdulgader Alsharif, Abdussalam Ahmed, and Mohamed Khaleel. "Optimum Number of Glass Covers of Thermal Flat Plate Solar Collectors." *Wadi Alshatti University Journal of Pure and Applied Sciences* (2024): 1-10.
 4. Yasser F. Nassar, Hala J. El-Khozondar, Wedad El-Osta, Suhaila Mohammed, Mohamed Elnaggar, Mohamed Khaleel, Abdussalam Ahmed, Abdulgader Alsharif, Carbon footprint and energy life cycle assessment of wind energy industry in Libya, *Energy Conversion and Management* (2023)
 5. Abdulgader Alsharif, Abdussalam Ali Ahmed, Mohamed Khaleel, Hamza

Conference
publication

- Hebrisha, Emad Almabsout, Mohamed Abou Sif, Yousef Al-Naas, Applications of Solar Energy Technologies in North Africa: Current Practices and Future Prospects, *International Journal of Electrical Engineering and Sustainability (IJEES)*, (2023)
6. Nassar, Yasser, et al. "Thermal Analysis of Air-Heating Flat-Plate Thermal Solar Collectors." *International Journal of Electrical Engineering and Sustainability (IJEES)* (2023): 129-144.
 7. Alsharif, Abdulgader, et al. "Stochastic Method and Sensitivity Analysis Assessments for Vehicle-to-Home Integration based on Renewable Energy Sources." *2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA)*. IEEE, 2023.
 8. Alsharif, Abdulgader, et al. "Ancillary services and energy management for electric Vehicle: Mini-review." *North African Journal of Scientific Publishing (NAJSP)* (2023): 9-12.
 9. Khaleel, Mohamed Mohamed, Abdussalam Ali Ahmed, and Abdulgader Alsharif. "Energy Management System Strategies in Microgrids: A Review." *North African Journal of Scientific Publishing (NAJSP)* (2023): 1-8.
 10. Khaleel, Mohamed, Abdussalam Ali Ahmed, and Abdulgader Alsharif. "Technology challenges and trends of electric motor and drive in electric vehicle." *International Journal of Electrical Engineering and Sustainability (IJEES)* (2023): 41-48.
 11. Khaleel, Mohamed Mohamed, Abdulgader Alsharif, and Ibrahim Imbayah Khalefah Imbayah. "Renewable energy technologies: Recent advances and future predictions." *African Journal of Advanced Pure and Applied Sciences (AJAPAS)* (2022): 58-64.
 12. Alsharif, Abdulgader, et al. "A rule-based power management strategy for Vehicle-to-Grid system using antlion sizing optimization." *Journal of Energy Storage* 41 (2021): 102913.
 13. Bukar, Abba Lawan, et al. "Energy management strategy and capacity planning of an autonomous microgrid: Performance comparison of metaheuristic optimization searching techniques." *Renewable Energy Focus* 40 (2022): 48-66.
 14. Alsharif, Abdulgader, et al. "Optimization Of Electrical Charging Station Capacity= Elektrik Şarf İstasyon Kapasitesinin Optimizasyonu." *AURUM Journal of Engineering Systems and Architecture* 1.2 (2018): 69-76.
 15. Alsharif, Abdulgader, et al. "A comprehensive review of energy management strategy in Vehicle-to-Grid technology integrated with renewable energy sources." *Sustainable Energy Technologies and Assessments* 47 (2021): 101439.
1. Whale Optimization Algorithm for Renewable Energy Sources Integration Considering Solar-to-Vehicle Technology, **2023 IEEE 9th International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE), India**
 2. Turkish conference (energy open day)
 3. **Integrating Renewable Energy Sources with Electric Vehicle Infrastructure for Enhanced Renewability 3rd EAI International Conference on Intelligent Systems and Machine Learning (ICISML-2024)**
 4. **: Strategic Renewable Energy Source Integration for Charging Stations in Plugin Hybrid Electric Vehicle Networks, 3rd EAI International Conference on Intelligent Systems and Machine Learning (ICISML-2024)**
 5. Whale Optimization Algorithm for Renewable Energy Sources Integration Considering Solar-to-Vehicle Technology, **2023 IEEE 9th International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE), India**
 6. Turkish conference (energy open day)

7. Optimal Sizing of Hybrid Renewable System for Residential Appliances, the 4th International Conference of Electrical Engineering and Information Technology (ICEEIT 2023), 30-31/10/2023
8. Power Management and Sizing Optimization for Isolated Systems Considering Solar, Battery, and Diesel Generator based on Cost and Reliability under Murzuq and Sabha Cities Weather”, international conference on research of mechanical design automation and materials, India
9. Abdussalam Ali Ahmed, Abdulgader Alsharif, Mohammed Khaleel, Yassar F. Nassar, Mohamed Alamen Sharif, Hala Jarallah El-Khozondar, “Smart Homes Programming For Improving Sustainability In Residential Areas” has been accepted for oral presentation as well as inclusion in the conference proceedings of the II. International Energy Days Symposium”, II. International Energy Days Symposium
10. Alsharif, Abdulgader, et al. "Stochastic Method and Sensitivity Analysis Assessments for Vehicle-to-Home Integration based on Renewable Energy Sources." 2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA). IEEE, 2023.
11. Alsharif, Abdulgader, et al. "Comprehensive state-of-the-art of vehicle-to-grid technology." 2023 IEEE 3rd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA). IEEE, 2023.
12. Alsharif, Abdulgader, et al. "Sizing Optimization Algorithm for Vehicle-to-Grid System Considering Cost and Reliability Based on Rule-based Scheme." ELEKTRIKA-Journal of Electrical Engineering 21.3 (2022): 6-12.
13. Alsharif, Abdulgader, et al. "Power management and sizing optimization for hybrid grid-dependent system considering photovoltaic wind battery electric vehicle." 2022 IEEE 2nd International Maghreb Meeting of the Conference on Sciences and Techniques of Automatic Control and Computer Engineering (MI-STA). IEEE, 2022.
14. Alsharif, Abdulgader, et al. "Electric vehicle integration with energy sources: Problem and solution review." African Journal of Advanced Pure and Applied Sciences (AJAPAS) (2022): 17-20.
15. Alsharif, Abdulgader, et al. "Sizing of photovoltaic wind battery system integrated with vehicle-to-grid using cuckoo search algorithm." 2021 IEEE Conference on Energy Conversion (CENCON). IEEE, 2021.
16. Alsharif, Abdulgader, et al. "A Review of the Smart Grid Communication Technologies in Contactless Charging with Vehicle to Grid Integration Technology." Journal of Integrated and Advanced Engineering (JIAE) 1.1 (2021): 11-20.
17. Alsharif, Abdulgader, Tan Chee Wei, and Razman Ayop. "Ant Lion Optimization of On-Grid Supported by PV/Wind Considering Libyan Energy." Science Proceedings Series 3.1 (2021): 9-15.

Thesis and dissertations

- Abdulgader Alsharif, Improved Antlion Sizing Optimization For Vehicle-To-Grid Considering Rule-Based Energy Management Schemes, UTM, 2023 (PhD)
- Optimization Of Electrical Charging Station Capacity, Altinbas University (2018). Master
- Testing of Optical Fiber Cable, term project of graduate courses University of Turkish Aeronautical Association -Ankara (2016). Master

Done Work

- Integrating PV and WT into the utility grid to support the gris in order to charge the EV and other home appliances
- Nature-inspired algorithms were used to size the number of components in the system to avoid heavy load
- Energy management strategies coupled with nature-inspired algorithms to gain a cost-effective system

Ongoing work

- Power management strategy based on the Feature selection sizing for hybrid energy systems.

- Electric vehicle as a battery storage.
 - Photovoltaic with electro-mobility.
 - Feasibility of utilizing of integrated RESs with V2G in DC/AC Micro-grid bus under Libyan climatology and its energy policy.
 - Integrated Sizing and Scheduling of Photovoltaic/ battery/ Electric Vehicle Based on Vehicle-to-Grid (V2G).
 - A closer look at Lithium-ion batteries for Electric Vehicle (EV) and hybrid systems.
 - Internet of Energy for Electric Vehicles.
 - Impacts of RES integration on the grid.
 - State-of-the-art on Vehicle-to-Everything (V2X) Applications: review
 - Electric vehicle and microgrid system Batteries: classifications and challenges.
 - fuel cell modeling and challenges: review
 - Economic calculation of V2G hybrid system.
 - Review of metaheuristic algorithms: Ant Lion Optimization, Particle Swarm Optimization, and Cuckoo Search Algorithm.
 - Microgrids with Vehicle-to-Grid Technology Considering Optimal Sizing and Energy Management: A Critical Review and Future Trends
 - A comprehensive review of vehicle to grid technology
 - Power management system and sizing optimization for grid-isolated considering solar and battery, with diesel generator based on cost and losses.
 - Electric Vehicle Charging Considering Wireless Charging Station Integration
 - Vehicle-to-Everything (V2X) Integration with battery estimation approaches: Review
 - A Survey on Used Energy Management Strategies in Vehicle-to-Grid Technology
 - Hybrid Systems Renewable Energy Based Street Lighting Planning: A case study.
 - Energy Management Strategy for Vehicle-to-Grid Technology Integration with Energy Sources: Mini review
 - Electric Vehicle Integration with Energy Sources: Problem and Solution Review.
 - Power Management and Sizing Optimization for Hybrid Grid-Dependent System Considering Photovoltaic/Wind/Battery/Electric Vehicle
 - 9th IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering-2023
 - The 8th international engineering conference on Renewable Energy & Sustainability (ieCRES 2023)-Gaza-Phalastian
 - IEEE 3rd International Maghreb Meeting of the conference on sciences and technologies of Automatic control and computer engineering (MI-STA 2023)-Libya
 - IEEE 2nd International Maghreb Meeting of the conference on sciences and technologies of Automatic control and computer engineering (MI-STA 2022)-Libya
 - The 5th international conference on electrical, electronic, communication and control engineering (ICEECC 2021)- Malaysia
 - The 5th ASIA International Multidisciplinary Conference (2021)-Malaysia
 - IEEE Conference on Energy Conversion (CENCON 2021)- Malaysia
 - The 2nd International Conference on Universal Wellbeing (ICUW)-Indonesia-2019
 - The 3rd international conference on electrical and Electronics Engineering 2016-Istanbul-Turkey
- Attended Conferences :
- Trainer for solar systems (Ensiab Solar company-Sebha-Libya)
 - Teacher Of Technical Drawing 2 at Medium Institute of Electrical & Electronic Professions (Murzuq City).
 - Using AI tools in scientific research
 - Publishing scientific paper
 - Teacher of Digital communication & Electronic circuit II in HighInstitute of
- Work experience :

| | | |
|-------------------|---|---|
| | | Electrical & Electronic professions (Sebha City-Libya) |
| | | <ul style="list-style-type: none"> • Teacher of Holy Quran at the Abubakar alssadik Learning Center –Murzuq City-Libya. • Civial society organizations in Libya • Social media. • Volunteer in social organization (Afaq Alhurriya-Murzuq) |
| Workshop attended | : | <ul style="list-style-type: none"> • LaTeX Workshop (2020) • National Designated Authority (NDA) for climate change (9-10 May 2023) • How to publish in high impact factor • How to Write a Literature Review • Mendeley Reference Manager • Mendeley Workshop • Scientific communication • Writing and publishing in high-impact • Workshop Characteristic of good literature review • Writing the literature review and identification of Gap • Microgrids. • Microsoft Visio workshop. • RES challenges. • Voltage security and compensation schemes in the power system. • Webinar on Energy Management The Map to Consistent Energy Efficiency. • Article writing tips and publication • writing manuscript without rejection • Improving your productivity to maximize your research output as a Ph.D. student • Route to Professional Engineer • Thermophotovoltaic cell for waste heat energy to electricity conversion • Thesis writing journey • Unleash Your Creative Side Using CANVA • Turnitin Workshop • Identifying Researchable Topics and Transforming them into Titles • Asset management for power systems with novel methods for predictive maintenance • IEEE voltage stability issues and integration of renewable energy sources • Best practice in submitting a paper • Digitalization in the Power Industry • Effective Presentation Skills • How to Identify a Journal to Publish in Workshop • EV infrasturcture in Malaysia • Formulating your problem statement |
| Skills | | <ul style="list-style-type: none"> • Excellent in computer skills (Matlab coding and Simulink, Microsoft Office (Word. Powerpoint, Excel-Visio), Photoshop, Mendeley) |
| Languages | : | <ul style="list-style-type: none"> • Arabic (Native-Excellent) • English (very good) course in South Africa 2014 • Turkish language (Good). |
| Hobbies | : | <ul style="list-style-type: none"> • Sport (Walking- chess-Table Tennis) • Volunteer of children in Libya & South Africa. • Reading stories and science discovery • Volunteer for Maintenance an old Books workshop |
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