

**Theme 6-6: Smart Grid - 2022**

Title	Authors	Scopus Source title	Volume	Issue	Pages	Publication type
Artificial intelligence and numerical models in hybrid renewable energy systems with fuel cells: Advances and prospects	Al-Orhan, A.   Fawaleh, M.   Martin, R.   Othou, S.   Orhan, M.   Gasim, M.   Ghani Chab, A.	Energy Conversion and Management	253	-	-	Review
Optimization Model for EV Charging Stations With PV Farm Transactive Energy	El-Tawel, N.A.   Farag, H.   Shaaban, M.F.   Alsharidah, M.E.	IEEE Transactions on Industrial Informatics	18	7	4608-4621	Article
A Multistage Passive Islanding Detection Method for Synchronous-Based Distributed Generation	Sawas, A.M.   Woon, W.L.   Pandi, R.   Shaaban, M.   Zeineldin, H.	IEEE Transactions on Industrial Informatics	18	3	2078-2088	Article
Reliability Assessment under High Penetration of EVs including V2G Strategy	Mokhtar, M.   Shaaban, M.F.   Ismail, M.H.   Sindi, H.F.   Rawa, M.	Energies	15	4	-	Article
Optimal Operation of Virtual Charging Systems for Plug-In Electric Vehicles	Mokhtar, M.   Shaaban, M.F.   Zeineldin, H.   El-Saadany, E.	IEEE Systems Journal	-	-	-	Article
A Holomorphic Embedding Power Flow Algorithm for Islanded Hybrid AC/DC Microgrids	Morgan, M.Y.   Shaaban, M.F.   Sindi, H.F.   Zeineldin, H.H.	IEEE Transactions on Smart Grid	13	3	1813-1825	Article
A Dynamic Optimal Battery Swapping Mechanism for Electric Vehicles Using an LSTM-Based Rolling Horizon Approach	Shalaby, A.A.   Shaaban, M.F.   Mokhtar, M.   Zeineldin, H.H.   El-Saadany, E.F.	IEEE Transactions on Intelligent Transportation Systems	-	-	-	Article
Optimal Allocation of Mobile Distributed Generation for Planning Islanded microgrids	Shalaby, A.A.   Shaaban, M.F.	Proceedings of the 2022 4th International Youth Conference on Radio Electronics, Electrical and Power Engineering, REEPE	-	-	-	Conference Paper
Multi-Objective Allocation of EV Charging Stations and RES in Distribution Systems Considering Advanced Control Schemes	Ali, A.   Shaaban, M.F.   Awad, A.S.A.   Azzou, M.A.   Lehtonen, M.   Mahmoud, K.	IEEE Transactions on Vehicular Technology	-	-	1-14	Article
FY Scheduling in Deregulated Energy Markets	Mohammed, M.   Nassar, M.   Shaaban, M.	2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation, SeFeT 2022	-	-	-	Conference Paper
Deep Learning Approach for Smart Home Appliances Monitoring and Classification	Ramesh, J.   Al-Ali, A.R.   Al-Nabuls, A.   Osman, A.   Shaaban, M.	Digest of Technical Papers - IEEE International Conference on Consumer Electronics	2022	-	-	Conference Paper
On Maximizing PV Hosting Capacity in Modern Distribution Networks Based on Diverse Control Techniques	Ali, A.   Mahmoud, K.   Shaaban, M.F.   Lehtonen, M.	International Conference on Electrical, Computer, and Energy Technologies, ICEET 2022	-	-	-	Conference Paper
Optimal Operational Planning of RES and HESS in Smart Grids Considering Demand Response and DSTATCOM Functionality of the Interfacing Inverters	Ali, A.   Shaaban, M.F.   Sindi, H.F.	Sustainability (Switzerland)	14	20	-	Article
A new differential protection algorithm for transmission lines connected to large-scale wind farms	Saber, A.   Shaaban, M.F.   Zeineldin, H.H.	International Journal of Electrical Power and Energy Systems	141	-	-	Article
Joint Optimal Power Source Sizing and Data Collection Trip Planning for Advanced Metering Infrastructure Enabled by Unmanned Aerial Vehicles	Shahin, H.   Shaaban, M.F.   Ismail, M.H.   Mourad, H.-A.M.   Khattab, A.	Journal of Modern Power Systems and Clean Energy	10	5	1317-1348	Article
A Subspace Identification Technique for Real-Time Stability Assessment of Droop Based Microgrids	El-Hamaleey, A.   Ammar, M.   Sindi, H.   Shaaban, M.   Zeineldin, H.	IEEE Transactions on Power Systems	27	4	2731-2743	Article
Optimal Protection Coordination of Islanded Microgrids Utilizing an Adaptive Virtual Impedance Fault Current Limiter	Sati, T.E.   Azzou, M.A.   Shaaban, M.	2022 IEEE Texas Power and Energy Conference, TPEC 2022	-	-	-	Conference Paper
Integrated Utility-Transit Model for a Comprehensive Transition Plan for Battery-Electric Bus Fleets	Hanna, M.O.   Shaaban, M.F.   Salama, M.M.A.	2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation, SeFeT 2022	-	-	-	Conference Paper
The International Telecommunications Conference, ITC-Egypt 2022 July 26-28, 2022, ITC-Egypt Probabilistic Modeling of Electric Vehicles in Parking Lots	Alnahhal, R.H.   Naleim, A.   Shaaban, M.   Ismail, M.	International Telecommunications Conference, ITC-Egypt 2022 - Proceedings	-	-	-	Conference Paper
A New Cooperative Game-Theoretic Approach for Customer-Owned Energy Storage	Hanna, M.O.   Shaaban, M.F.   Salama, M.M.A.	Sustainability (Switzerland)	14	6	-	Article
On the Coordination of Charging Demand of Electric Vehicles in a Network of Dynamic Wireless Charging Systems	Eighnam, E.   Sharf, H.   Odeh, Y.   Hassan, M.S.   Osman, A.H.	IEEE Access	10	-	62879-62892	Article
Integration of deterministic and game-based energy consumption scheduling for demand side management in isolated microgrids	Eighnam, E.A.   Osman, A.H.   Hassan, M.S.   Assaf, T.   Mir, H.	International Journal of Emerging Electric Power Systems	23	4	543-564	Article
Deployment of Dynamic Wireless Chargers for Electric Vehicles	El-Melligy, A.O.   Eighnam, E.A.   Hassan, M.S.   Osman, A.H.	2022 IEEE Transportation Electrification Conference and Expo, ITEC 2022	-	-	290-294	Conference Paper
Stochastic multi-objectives optimal scheduling of energy hubs with responsive demands in smart microgrids	Abdulnasser, G.   Ali, A.   Shaaban, M.F.   Mohamed, E.E.M.	Journal of Energy Storage	55	-	-	Article
Design and Tuning of LLC Compensation Networks for DO-DOQ Coils in Dynamic Wireless EV Charging Systems	Abdulhameed, M.   Eighnam, E.   Osman, A.   Hassan, M.S.	2022 IEEE Transportation Electrification Conference and Expo, ITEC 2022	-	-	579-583	Conference Paper
On the Coordination of the Charging Demand of Roadway Powered Electric Vehicles	Eighnam, E.   Sharf, H.   Hassan, M.S.   Osman, A.	2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation, SeFeT 2022	-	-	-	Conference Paper
Machine Learning Approach for Smart Distribution Transformers Load Monitoring and Management System	Ramesh, J.   Shabriar, S.   Al-Ali, A.R.   Osman, A.   Shaaban, M.F.	Energies	15	21	-	Article
On the Utilization of Double-D Quadrature Coils in Dynamic Wireless Electric Vehicle Charging Systems	Al-Abweh, T.   Eighnam, E.   Hassan, M.   Osman, A.	2022 9th International Conference on Electrical and Electronics Engineering, ICEEE 2022	-	-	55-59	Conference Paper