



Postdoctoral Researcher

Research outputs

Economic assessment of bifacial solar modules under incentive policies in rich-solar potential regions: A multiscale practical approach

Bakhshi-Jafarabadi, R. & Nemati-Yazdi, N., 2026, In: e-Prime - Nexus of Electrical, Electronic, and Intelligent Engineering. 17, 10 p., 201185.

Input Admittance Shaping-based Active Islanding Detection Technique for Multi-inverter Microgrids

Emadi, A., Sadeh, J. & Bakhshi-Jafarabadi, R., 2026, In: IEEE Transactions on Power Delivery. 41, 4, p. 1566-1578 13 p.

Optimum tilt and azimuth of fixed grid-connected photovoltaic system for peak load shaving: A multi-scale model

Bakhshi-Jafarabadi, R. & Doh Dinga, C., 2025, In: Renewable Energy. 255, 13 p., 123714.

Analytical Approach for Maximum Power Point Calculation of Photovoltaic Modules: based on the Fixed Point Method

Tirado-Serrato, J. G., Chavez, J. D. J., Maximov, S., Bakhshi-Jafarabadi, R. & Popov, M., 2024, *IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society, Proceedings*. IEEE, 6 p. (IECON Proceedings (Industrial Electronics Conference)).

Non-unit wavelet transform-based protection principle for modular multi-level converter-based HVDC grids using adaptive threshold setting

Dehghan Marvasti, F., Mirzaei, A., Bakhshi-Jafarabadi, R. & Popov, M., 2024, In: International Journal of Electrical Power and Energy Systems. 163, 12 p., 110352.

Peak Load Shaving of Air Conditioning Loads via Rooftop Grid-Connected Photovoltaic Systems: A Case Study

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Analytical Overvoltage and Power-Sharing Control Method for Photovoltaic-Based Low-Voltage Islanded Microgrid

Bakhshi-Jafarabadi, R., Lekic, A., Marvasti, F. D., De Jesus Chavez, J. & Popov, M., 2023, In: IEEE Access. 11, p. 134286-134297 12 p.

A new hybrid islanding detection method for mini hydro-based microgrids

Serrano-Fontova, A. & Bakhshi-Jafarabadi, R., Dec 2022, In: International Journal of Electrical Power and Energy Systems. 143, 108437.

Economic Assessment of Residential Hybrid Photovoltaic-Battery Energy Storage System in Iran

Bakhshi-Jafarabadi, R. & Keramatpour, A., 2022, *2022 9th Iranian Conference on Renewable Energy and Distributed Generation, ICREDG 2022*. IEEE, (2022 9th Iranian Conference on Renewable Energy and Distributed Generation, ICREDG 2022).

Review on islanding detection methods for grid-connected photovoltaic systems, existing limitations and future insights

Bakhshi-Jafarabadi, R., Sadeh, J., Serrano-Fontova, A. & Rakhshani, E., 2022, In: IET Renewable Power Generation. 16, 15, p. 3406-3421 16 p.

A review on techno-economic assessment of solar water heating systems in the middle east

Dehghan, M. D., Pfeiffer, C. F., Rakhshani, E. & Bakhshi-Jafarabadi, R., 2021, In: Energies. 14, 16, p. 1-28 28 p., 4944.

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Economic evaluation of commercial grid-connected photovoltaic systems in the Middle East based on experimental data: A case study in Iran

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A comprehensive economic analysis method for selecting the PV array structure in grid-connected photovoltaic systems
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Bakhshi-Jafarabadi, R. & Sadeh, J., 2016, In: Solar Energy. 137, p. 564-577

Optimal economic designing of grid-connected photovoltaic systems with multiple inverters using linear and nonlinear module models based on Genetic Algorithm
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