

Title: Fuzzy control microgrid dispatching

Generated on: 2026-05-05 12:08:15

Copyright (C) 2026 MARZENIA SOLAR SOLUTIONS. All rights reserved.

For the latest updates and more information, visit our website: <https://malemarzenia.com.pl>

-----

This paper studied the economic dispatching of a small-scale microgrid which contains the wind turbine (WT), photovoltaic cell (PV), microturbine (MT), diesel engine (DE), fuel cells (FC) ...

This article proposes a novel scalable fuzzy voltage control scheme for nonlinear direct current microgrids (DCmGs) composed of DGUs and constant power loads (CPLs) interconnected via power ...

Abstract: This article presents the fuzzy-based charging-discharging control technique of lithium-ion battery storage in microgrid application. Considering available power, load demand, and ...

Abstract The increasing penetration of renewable energy sources (RES) in microgrids introduces complex stability challenges due to their intermittent and nonlinear behavior. This paper ...

Therefore, this study introduces a novel Deep-Fuzzy Logic Control (Deep-FLC) framework that combines the predictive power of LSTM models ...

In this paper, a multi-input single-output (MISO) fuzzy neural network controller is proposed for controlling frequency and managing power distribution. The fuzzy neural network ...

This paper presents an advanced frequency control solution for multi-microgrid systems (MMGS) with high renewable energy penetration, ...

Microgrid (MG) is effective to absorb the distributed renewable energy source (RES). Considering the uncertainty of RES and load, this paper proposes a fuzzy rule of energy storage ...

A sophisticated energy management approach that achieves long-term optimization under operating uncertainties is imperative. In this paper, a two-stage IES real-time dispatching method ...

Web: <https://malemarzenia.com.pl>

