

Abstract: Due to its complex architecture, modeling microgrids is challenging. This article focuses on proposing a downscaling strategy via the Louvain Community Clustering (LCC) algorithm. ...

This white paper focuses on tools that support design, planning and operation of microgrids (or aggregations of microgrids) for multiple needs and stakeholders (e.g., utilities, developers, ...

Deep Reinforcement Learning (DRL), a subset of artificial intelligence, holds the potential to revolutionize the control and management of microgrids. This systematic review aims to provide a ...

This research aims to investigate available techniques for reducing the dimensionality of data used for fault diagnosis in AC microgrids. The research will review and compare different dimensionality ...

The project will develop a detailed model of a microgrid in Modelica modeling language and apply different model reduction techniques with the aim of finding an optimal balance between model ...

This paper selects a typical grid-forming hybrid renewable energy MGC, where the multitime-scale characteristics of the system considering detailed electromagnetic and ...

NLR developed a PV-battery-diesel hybrid power system for the U.S. Army Rapid Equipping Force and the Expeditionary Energy and Sustainment Systems to provide power to ...

March 2022 (This article belongs to the Special Issue Advances in Deep Learning for Intelligent Sensing Systems) Abstract As an efficient way to integrate multiple distributed energy resources (DERs) and ...



Microgrid Dimension Reduction System

Web: <https://upstreamjhb.co.za>

