Microgrid dispatching management based on Petri net

This article presents a Hybrid Petri Net (HPN) strategy for a micro-grid energy provider in order to make hourly decisions on dispatching energy between the connected installations.

As the photovoltaic (PV) industry continues to evolve, advancements in Microgrid dispatching management based on Petri net have become critical to optimizing the utilization of renewable ...

For this, the colored Petri net is proposed as the formal tool in order to have an easy and comprehensive modeling/simulation strategy. To validate the proposed methodology, a scenario considering the ...

In this article, we present a new system design, based on hierarchical PNs, of an intelligent algorithm to automate the load-balancing ...

In order to explore the operational characteristics of the microgrid in different natural scenarios, this paper proposes an energy management method for the win

To resolve this issue, a novel hierarchical model of Colored Petri Net (CPN) based dynamic scheduling scheme is first proposed for a class of wind-photovoltaic-storage microgrid, ...

With the increasing scale of power, vast amount of information and data processing becomes more difficult, dispatching management system based on timed colored Petri nets is ...

As an efective approach, Petri Nets (PN) have been applied to model and analyze the com-plex dynamics in Smart Grid (SG) environments. However, we are currently missing an overview of types ...

One is how to control multiple distributed generators; and another is how to model both discrete event and continuous behaviors of a microgrid. To address these two issues, this thesis ...

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