

The reliability of the physical microgrid system depends on the accurate and efficient operation of the integrated cyber system. The existence of the cyber system provides the foundation and ...

comprehensive review of microgrid control is presented with its fusion of model-free reinforcement learning (MFRL). A high-level research map of microgrid control is developed from six distinct ...

Key Laboratory of Information Fusion Technology, Ministry of Education, Xi'an, China. E-mail: hejing19920811@mail.nwpu.cn. ... o This paper propose the LFC for cyber ...

To deal with this issue, in this paper, a novel false data injection attack detection method for direct-current microgrids (DC MGs) was proposed, based on fusion adaptive cubature Kalman filter (FACKF) approach. Firstly, a ...

Based on the constructed multi-microgrids information physics fusion model, a multi-microgrids transaction model combining non-cooperative game model and two-stage adjustable robust ...

Joo and Ili?: An Information Exchange Framework Utilizing Smart Buildings for Efficient Microgrid Operation benefit function coefficient c_{tij} in (1) reflects the economic flexibility of a particular ...

Compared to a single signal, multi-sensor information fusion can provide richer fault information, compensate for the shortcomings of single sensor signal failure, achieve ...

To fully reveal the interplay of the cyber system and physical system in the microgrid, this paper proposes a generic hierarchical modeling framework for cyber-physical integration modeling of microgrid, including two ...

Based on this, this paper proposes a microgrid architecture based on the fusion of information and physics, and provides functional design and modeling methods from the aspects of physical ...

At present, the control and operation of microgrids rely on information feedback and decision-making. This presents new challenges for cyber-physical systems (CPS) of microgrids. ...

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