

A microgrid is a localized group of electricity sources and loads that can operate autonomously or in conjunction with the main electrical grid. It typically includes various distributed energy resources (DERs) such as solar panels, batteries, ...

entities in a V2M setting, namely EVs, smart microgrids and gNodeB. Smart microgrids, that are predicted to experience a power outage, send service requests to the gNodeB. The machine ...

A hybrid sequential-parallel combination method of imitation learning (IL) and deep reinforcement learning is proposed to learn the optimal policy. ... puts high demands on ...

Microgrid is an important and necessary component of smart grid development. It is a small-scale power system with distributed energy resources. To realize the distributed generation potential, adopting a system where the associated ...

A hybrid sequential-parallel combination method of imitation learning (IL) and deep reinforcement learning is proposed to learn the optimal policy. ... puts high demands on the fast response of flexibility resources and ...

The Virtual Utility: Some Introductory Thoughts on Accounting, Learning and the Valuation of Radical Innovation. In: Awerbuch, S., Preston, A. (eds) The Virtual Utility. Topics in Regulatory ...

In this paper, a new discrete-time data-driven distributed learning control strategy for frequency/voltage regulation and active/reactive power sharing of islanded microgrids is ...

Optimal Coordination of Over-Current Relays in Microgrids Using Unsupervised Learning Techniques Sergio D. Saldarriaga-Zuluaga 1,2, Jesús M. López-Lezama 2,* and Nicolás ...

Microgrids serve industries, institutions, communities and other customers in a range of ways. Here we look at eight main microgrid benefits -- from keeping the lights on in a storm to lowering energy costs to improving ...

Special Issue: Intelligent Protection and Control of Microgrids with Energy Storage Integration Adaptive protection combined with machine learning for microgrids ISSN 1751-8687 Received ...

Microgrids (MGs) continue to be a subject of extensive research that can enhance their operation and controls. This study addresses frequency control in MGs operating in islanded mode, ...

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