

عنوان مقاله:

Development of an approach based on multi-agent deep reinforcement learning algorithm for voltage regulation in low voltage distribution networks with high photovoltaic penetration

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خلاصه مقاله:

This paper proposes a multi-agent deep reinforcement learning based approach for distribution system voltage regulation with high penetration of photovoltaics (PVs). The designed agents can learn the coordinated control strategies from historical data through the counter-training of local policy networks and central critical networks. The learned strategies allow us to perform online coordinated control. Comparative results with other methods show the enhanced control capability of the proposed method under various conditions

کلمات کلیدی:

Voltage regulation, multiagent deep reinforcement learning, coordinated control, distribution system

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