

عنوان مقاله:

Reactive power planning in Distribution Systems using A Reinforcement learning method

محل انتشار:

اولین کنگره مشترک سیستم های فازی و سیستم های هوشمند (سال: 1386)

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خلاصه مقاله:

This work presents a new algorithm RL approach for capacitor allocation in distribution feeders. The problem formulation considers two distinct objectives related to total cost of power loss and total cost of capacitors including the purchase and installation costs. The formulation is a multi-objective and non-differentiable optimization problem. The proposed method of this article uses RL for sizing and sitting of capacitors in radial distribution feeders. The proposed method has been implemented in a software package and its effectiveness has been verified through a 9-bus radial distribution feeder along with a 34-bus radial distribution feeder for the sake of conclusions supports. A comparison has been done among the proposed method of this paper and similar methods in other research works .that shows the effectiveness of the proposed method of this paper for solving optimum capacitor planning problem

کلمات کلیدی:

Reactive Power Planning, Reinforcement Learning, Radial Distribution Feeder

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