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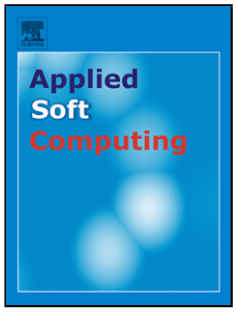

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A novel codification and modified heuristic approaches for optimal reconfiguration of distribution networks considering losses cost and cost benefit from voltage profile improvement

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Highlights

- A modified heuristic approach and novel codification for distribution system reconfiguration is proposed.
- Voltage profile improvement of network is economized.
- Constant impedance, constant power and constant current loads are considered.
- The proposed method has been tested on balanced and unbalanced test distribution networks.

Abstract- Network reconfiguration is the process of changing the topology of distribution systems by altering the open/closed status of switches. Because there are many candidate-switching combinations in the distribution system, network reconfiguration is a complicated combinatorial, non-differentiable

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