

# Adaptive protection coordination scheme for distribution network with distributed generation using ABC

Hossam Eldin Abdallah Talaat, A.M. Ibrahima, W. El-Khattama, M. ElMesallamyb

## Abstract

This paper presents an adaptive protection coordination scheme for optimal coordination of DOCRs in interconnected power networks with the impact of DG, the used coordination technique is the Artificial Bee Colony (ABC). The scheme adapts to system changes; new relays settings are obtained as generation-level or system-topology changes. The developed adaptive scheme is applied on the IEEE 30-bus test system for both single- and multi-DG existence where results are shown and discussed.

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