

Optimal allocation of Plug-in Hybrid Electric Vehicles (PHEV) parking lots using Black Hole (BH) optimization algorithm

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In this study, an electric vehicle charging station will look as a special type of distributed generation (DG) sources. The difference is that electric vehicles depending on the type of operation can appear in a load or generator in electrical networks. Objective function including loss reduction, installation costs and maximize profits charging station operator of parking. Considering the fact that in this study there is also the optimization problem to solve it a new intelligent optimization algorithm called black holes (BHBO) is used. Problem solved in MATLAB software and eventually the results will be analyzed and the results will be analyzed and interpreted in different cases.

Keywords : Black Hole Optimization Algorithm (BHBO), Charging Station, Plugged-in Hybrid Electric Vehicle (PHEV), Power Distribution Grids

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