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Enhancing the Stability Performance using UPFC devices based on GA

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The rate of Iraqi power demand has been increased significantly faster than the infrastructure's development and it becomes very difficult to keep the system stable especially with the current acts of vandalism against the country, so it's very important to improve the power system stability. The object of this work is to improve the stability of the Iraqi National Super Grid System (INSGS) by installing Unified Power Flow Controller (UPFC) devices in different optimal locations under fault condition and comparing the results with those of without UPFC devices under the same condition. The optimal location of the UPFC device was specified based on Genetic Algorithm (GA) optimization method, it was utilized to search for optimum UPFC parameters setting and location based objective function that depends on the power and voltage as a fitness constraints. The results obtained showed that the installation of Unified Power Flow Controller (UPFC) devices at the optimal locations of the Iraqi grid gives an improvement in the stability by damping the voltage and rotor angle oscillations after subjected to the three phase fault to ground at different locations and different cases....



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