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"Alocação de Medidores para a Estimação de Estado em Sistemas de Potência através de Metaheurística "

Power System State Estimators usually require a set of redundant measurements, which are appropriately chosen according to the type (i.e. power injection/flow and voltage magnitude), number and location of the measurement points in the supervised electric network. Selection of a measurement system aims at attending to requirements such as, observability, reliability and quality of the estimation process, taking into account the associated monetary costs. This dissertation presents a metaheuristics-based methodology to solve the problem of meter placement for power system state estimation. The suggested technique tries to ensure the observability of the system at a low cost. Several investigations have been performed to assess the efficiency of the proposed method.