Conception optimale des systèmes de production par une approche bésée sur une système colonie de fourmis artificielles

This work is devoted to the dispatching of the reactive power and the maintain of voltage profile in the electrical network power systems in steward state by a hybrid approach. Combining heuristic and numerical technique has been chosen. The considered approach deals with the security problem, mainly the elimination of voltage constraint voilation disturbances. Firstly, the effect of the reactive power transmission upon the voltage drop and the active power losses has been analysed. Two important proprieties have been extracted; these will be used in the devlopment of the approach