



EVALUATION THE EFFECTS OF THE GENERATION NUMBER USED GENETIC ALGORITHMS ON A PI-TYPE FUZZY CONTROLLER

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ABSTRACT—The aim of the study is to show the effect of the generation number used on the genetic algorithms applied to the fuzzy PI-type controller. The study was carried out on the dc motor by using the PC. The motor speed data were transferred to the PC via interface circuit. The required control signal was produced by using a program written in the C++ language and it was applied to motor the interface circuit again. The results obtained for 10 generations and 30 generations were compared.