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A Novel of Tuned GA and Tuned PSO Neuro Fuzzy Logic Controller Based Speed Control of Brushless DC Motor

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Abstract : This paper presents a comparative study of Generic Algorithm (GA) and Particle Swarm Optimization (PSO) technique for determining the optimal parameters of (PID) Neuro Fuzzy controller for speed control of a brushless DC motor (BLDC) where the (BLDC) motor is modeled in simulink in MATLAB. The planned technique was a lot of economical in up the step response characteristics similarly as reducing the steady-state error, rise time, subsidence time and most overshoot.

Keywords : Brushless DC motor, Neuro Fuzzy PID controller, Matlab, Particle Swarm Optimization, Generic Algorithm

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