Empirical Studies for Two Evolutionary Fuzzy Controllers

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ABSTRACT

Empirical studies are given for two kinds of adaptive fuzzy control strategies based on evolutionary computation (EC)–multi-regulated factors fuzzy controller and qualitative-quantitative self-regulated fuzzy controller. Some complex and hard-to-control plants are selected such as chaotic system, nonlinear MIMO systems. Results illustrate these control strategies have satisfactory dynamic, steady and robust performance. Meanwhile, some key issues about evolutionary are discussed.

Keywords: Empirical Studies, Evolutionary Computation, Fuzzy Control.

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