

**عنوان مقاله:**

Robust Control Using Adaptive Fuzzy PI $\lambda$ D $\mu$  Controller

**محل انتشار:**

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**خلاصه مقاله:**

Fractional-order PID (FOPID or PI $\lambda$ D $\mu$ ) controller is a generalization of standard PID controller using fractional calculus. Compared to PID controller, the tuning of PI $\lambda$ D $\mu$  is more complex and remains a challenge problem. This paper focuses on the design of adaptive fuzzy PI $\lambda$ D $\mu$  controller to control first-order system with parametric uncertainty structure. Using fuzzy method to adjust adaptive controller is fuzzy adaptive controlling, so called adaptive controlling is that using modern control theory to recognize object's characteristic parameters online and change their control strategies timely so that control system's quality index could keep in the best range

**کلمات کلیدی:**

Fuzzy logic controller; FOPID controller; robust control

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