

## عنوان مقاله:

A New Self-Tuning Fuzzy Controller for Load Frequency Control

## محل انتشار:

ششمین کنفرانس مهندسی برق و الکترونیک ایران (سال: 1393)

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## خلاصه مقاله:

In this paper, a fuzzy application to design the self-tuning PID-type controller is presented. Then, two classes of the fuzzy logic systems, type-1 and type-2 fuzzy logic systems are studied and analyzed. A comparison of the results achieved in the MatLab/Simulink environment shows that the proposed self-tuning interval type-2 fuzzy logic PID controller (IT2FLPIDC) has a better dynamic performance of the load frequency control (LFC) than the PID and self-tuning type-1 fuzzy logic PID (T1FLPID) controllers in a two-area interconnected power system.

## کلمات کلیدی:

Load frequency control; Self-tuning adaptive controller; Type-1 fuzzy logic; Interval type-2 fuzzy logic; PID controller;  
Two-area power system

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/384167>

