

## عنوان مقاله:

Multi (Two) Area Load Frequency Control: A Comparative Study Based On PI, PID and Fuzzy Logic Controllers

## محل انتشار:

همایش مهندسی برق و توسعه پایدار با محوریت دستاوردهای نوین در مهندسی برق (سال: 1392)

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## خلاصه مقاله:

Load frequency control (LFC) in power systems operation has been a major issue of concern to power system operators. This study presents the design and implementation of intelligent controllers, based on fuzzy logic (FL), for automatic generation control (AGC) of a two area hydrothermal power system. The AGC performance with intelligent controllers is compared with the performance of conventional proportional integral (PI) and proportional integral derivative (PID) controllers under a load disturbance. Comparative analysis of results shows considerable improvement in system performance with intelligent controllers following a load disturbance in either of the areas. The .fuzzy controller gives better dynamic response, reduced error magnitude and minimized frequency transients

## کلمات کلیدی:

Automatic Generation Control (AGC), Fuzzy Logic Controller (FLC), Conventional Proportional Integral (PI), (Proportional Integral Derivative (PID)

## لینک ثابت مقاله در پایگاه سیویلیکا:

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