

## عنوان مقاله:

self-tuning Fuzzy PID decoupling controller for VAV Air-Conditioning System

## محل انتشار:

چهارمین کنفرانس مهندسی برق و الکترونیک ایران (سال: 1391)

تعداد صفحات اصل مقاله: 6

## نویسندگان:

Soheil Vosoughi - Islamic Azad University, Gonabad Branch, Iran

Saeed Balochian - Assistant Professor Islamic Azad University

Hodeiseh Gordan - Islamic Azad University, Gonabad Branch, Iran

## خلاصه مقاله:

Variable-air-volume (VAV) air-conditioning system is a multi-variable system and has multi coupling control loops. A multivariable decoupling PID controller is designed for VAV air-conditioning system. In general, an adaptive fuzzy PID controller (AFPIDC) means that the PID parameters are adjusted by fuzzy rules in real-time. Since the output of the fuzzy logic controller is changeable, the gain of the controller is adjusted implicitly and adaptively. The simulation results show the validity of the proposed approach

## کلمات کلیدی:

Keywords-PID decoupling control, self-tuning Fuzzy PID control, variable air volume, air-conditioning system

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/164323>

