

عنوان مقاله:

Linguistic Hedge Fuzzy Logic Controller in CMOS Technology

محل انتشار:

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خلاصه مقاله:

In this paper, circuit implementation of linguistic hedge fuzzy logic controller (FLC), in a mixed-signal circuit design approach, is presented. This type of FLC can be realized with a lower design complexity and a smaller hardware compared with the conventional FLCs. A tuneable triangular and trapezoidal shape Juifer is designed and Linguistic hedges are used to dynamically modify the shape of membership functions according to the feedback signals from the controlled plant. Digital circuits are also adopted to implement programmable units. The circuits are supplied with 1.5V power supply using 0.35μm CMOS technology.

کلمات کلیدی:

Linguistic Hedge, Mixed signal, Fuzzy controller

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