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Theory of the fuzzy controller: An introduction. (English) [Zbl 0785.93058](#)
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Summary: First we introduce notation in an attempt to standardize the description of a basic fuzzy controller. If r_1, r_2, \dots, r_n are the real number inputs to the fuzzy controller and δ is its defuzzified output, then $\delta = F(r_1, \dots, r_n)$ for some function F . By the ‘theory of the fuzzy controller’ we mean in this paper the study of the structure of F for elementary fuzzy controllers. Using this standardized notation, first we survey the known results on the theory of the fuzzy controller and then discuss important future research topics in this area.

MSC:

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Cited in **9** Documents

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