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自组织模糊CMAC神经网络及其非线性系统辨识

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SELF-ORGANIZING FUZZY CMAC NEURAL NETWORK AND ITS NONLINEAR SYSTEM IDENTIFICATION

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摘要 针对 CMAC的特点,提出了联想度的概念,并由此设计了一种自组织模糊 CMAC神经网络（SOFC-MAC)及其学习算法,证明了SOFCMAC能以任意精度对非线性特性一致逼近。该网络具有学习速度快,逼近精度高及局部泛化能力等特点。歼击机系统特征模型辨识仿真验证表明了该方法的有效性

关键词： CMAC　模糊神经网络　系统辨识

Abstract： A concept of association degree is proposed and further a self-organizing fuzzy CMAC neural network and its learning algorithm are presented based on CMAC. And it is proved that the approximations provided by the SOFCMAC can be made arbitrarily accurate. The proposed network capable of local generalization is characterized by fast learning, accurate approximation, \%etc\%. In this paper, the network is used in fighter identification and satisfactory result is obtained.

Keywords： CMAC　fuzzy neur al networ ks　system identification

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