自动化学报 1995 21 (04): 392-399 ISSN: 0254-4156 CN: 11-2109/TP

论文与报告

高精度RBP-模糊推理复合学习系统

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收稿日期 1993-2-23 修回日期 网络版发布日期 接受日期

摘要
该文提出了高精度RBP-模糊推理复合学习系统. 系统主要由基于鲁棒估计的鲁棒BP 学习环节和基于混合合成推理的模糊推理环节构成. 该学习系统的主要特点是可由鲁棒BP 算法和min-max, max-min模糊推理算法简单地实现. 最后通过在目标跟踪问题中应用结果, 表示了该算法的高精度和鲁棒性.

关键词 BP神经网 模糊推理 鲁棒估计 目标跟踪系统

分类号

A Highly Accurate Robust BP-fuzzy Reasoning System for Learning Combination

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Abstract
A new accurately robust BP-fuzzy reasoning system for learning combination is proposed. This learning system is mainly constructed with a robust BP network with fuzzy reasoning which replaced robust estimation and mixed fuzzy reasoning. The main feature of this learning system is a simple algorithm constructed from the following three parts: RBP learning algorithm, max-min fuzzy reasoning and rain-max fuzzy reasoning. This learning system is applied to a target tracking problem. The results of test show that this tracking system is more accurate and more robust.

Key words BP network fuzzy reasoning robust estimator target tracking system

DOI:

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