研究、探讨

应用带标识的模糊Petri网的知识表示方法

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摘要　　提出一种在某些库所中带有标识的模糊Petri网模型来进行知识表示。为了获得更多的加权模糊产生式规则的信息，在知识表示的过程中考虑了权值，确定性因子，阈值等参数。这种模糊Petri网充分利用了Petri网的并行处理能力。随着带标识的模糊Petri网的运行，网中标识的变化可以标记加权模糊推理的运行。通过文中给出的基于相似性测度的计算方法可以更加高效地计算出多层加权模糊推理的推理结果。

关键词　　带标识的模糊Petri网　加权模糊推理　知识表示

分类号　TP273+.4

Method of knowledge representation based on marked fuzzy Petri net

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Abstract

A marked fuzzy Petri net with some places containing tokens is proposed to represent knowledge.To gain more information of weighted fuzzy production rules，the knowledge parameters such as weight，certainty factor，threshold value etc.are taken into account in the course of knowledge representation.The fuzzy Petri net take use of parallel processing ability of Petri net fully.With the processing of marked fuzzy Petri net，the change of the token in the net can mark the process of the weighted fuzzy reasoning.According to the computing method based on the similarity measure，the deduced consequence of the multilevel weighted fuzzy reasoning can be computed more efficiently.

Key words　marked fuzzy Petri net　weighted fuzzy reasoning　knowledge representation

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