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一种模糊决策专家系统的模型

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A MODEL FOR FUZZY DECISION EXPERT SYSTEMS

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摘要 目前决策型专家系统主要适合于解决精确的或不确定性决策问题,还存在模糊决策问题,如最佳方案选择问题。统一考虑决策问题中的不确定性和模糊性,提出了一种能统一处理带有不确定性和模糊性决策问题的单目标决策型专家系统模型。针对构造决策专家系统所涉及的具体问题,本文从知识表示、知识获取、模糊谓词计算、规则匹配、系统求解方式等几个方面介绍所提出的模型。

关键词：  专家系统   知识表示   模糊决策

Abstract： Based on the theory of fuzzy mathematics, a model of fuzzy decision expert system is presented. The model is suitable for establishing the expert systems that dispose the single-target decision problems with uncertainty and fuzziness. And based on the model, the expert systems can be built up easily. According to the model, a fuzzy decision expert system is established for planning the deep-drawing schemes of cone parts. It is proved that the model is simple, effective and practical. To solve the concrete problems in constructing fuzzy decision expert systems, the rule match, fuzzy predicate calculus, knowledge representation and problem solving mode of the model are mainly described in this paper.

Keywords： expert system   knowledge representation   fuzzy decision

引用本文：

郝博;蔡青;杨彭基. 一种模糊决策专家系统的模型[J]. 航空学报, 1992, 13(7): 371-376.

Hao Bo;Cai Qing;Yang Peng-ji. A MODEL FOR FUZZY DECISION EXPERT SYSTEMS[J]. Acta Aeronautica et Astronautica Sinica, 1992, 13(7): 371-376.

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