工程与应用

灰云逻辑及其智能决策支持系统

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摘要　　针对经典的数理逻辑不能满足智能决策决策支持系统对逻辑柔性化的要求，在分析各种经典和非经典逻辑的基础上，指出了智能决策决策支持系统的逻辑柔性化的发展趋势，并给出了一种基于灰云模型的具体的柔性逻辑——灰云逻辑。首先分析了智能决策支持系统对逻辑柔性化的需求，然后给出了灰云逻辑及基于灰云逻辑的智能决策支持系统，给出了灰云逻辑的具体表示形式，并给出了基于灰云逻辑的具体的知识推理方法。最后，给出了基于灰云逻辑的智能决策支持系统框架和原理。其研究特点在于明确了智能决策决策支持系统的逻辑柔性化的发展方向，并给出了一种表示信息不完全性和随机性的具体的柔性逻辑推理方法。

关键词　　智能决策支持系统　柔性逻辑　灰云逻辑　知识推理

分类号

Logic of grey cloud and intelligent decision support system

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Abstract

On the requirement of flexible logic of intelligent decision support system to classic logic，the flexible logic based on grey cloud called as grey cloud logic is proposed based on the analysis of classic and un-classic logic.The development field of flexible logic of intelligent decision support system is ascertained.Firstly the requirement of flexible logic of intelligent decision support system is analyzed.Then the grey cloud logic is given.Intelligent decision support system based on grey cloud logic is given.The form of representation of grey cloud logic is given.The knowledge induction method based on grey cloud is proposed.Lastly the framework and principle of intelligent decision support system based on grey cloud logic is given.The character of research is that the development trend of flexible logic of intelligent decision support system is shown.The grey logic representing the incomplete and randomcity and induction method based on it are proposed.

Key words　intelligent decision support system　flexible logic　grey cloud logic　knowledge induction

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