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基于层次模型法的决策支持系统的应用

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摘 要: 层次模型法是一种新型的决策支持系统(DSS)开发方法,它基于通用系统理论(GST)的多层次模型集成,采用分层结构,以多层模型作为DSS概念模型,把决策支持系统分为4个层次:应用层、任务层、功能层和物理层.作者分析了层次模型法的基本思想,在此基础上,将其应用到一个具体的企业财务决策支持系统开发中,在应用层中将决策问题模型化,并提出问题求解策略;在任务层中建立数据模型,并归纳出问题表达式,综合分析系统的求解过程,并对财务决策支持系统的效果进行了评价.实践结果表明,层次模型法作为通用决策支持系统生成器和各类应用系统的开发方法,具有较大的理论价值和实用价值.

关键字: 决策支持系统;层次模型法;通用系统理论

The application of decision support system based on layer model method

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Abstract: Layer model method is a new development method of Decision Support System (DSS). Layer model method is one of multi-layer model integration methods based on General System Theory (GST). It uses layer division structure and looks on the multi-layer model as conceptual model. It divides DSS into four layers: application layer, task layer, function layer and physical layer. Based on this, this paper describes the background of Layer model method, and then illuminates its research thought, and clarifies the design and development of a financial Decision Support System in detail. At the application layer, we turn the decision problems into models and put up with problem solving strategies. At the task layer, we build data models and PRF, and analyze the solving procedure of system. At last, we evaluate the effects of this financial DSS. As a kind of general DSS generator and a new development method, layer model method has good theoretic value and practicability.

Key words: decision support system; layer model method; general system theory

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