■ 论文摘要

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新建铁路基本走向决策支持系统

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摘　　要：为了研究铁路绿色设计, 必须选择合理的新建铁路基本走向方案决策方法· 为此, 在应用再改进的ELECTRE于新建铁路基本走向决策支持系统中, 建立新建铁路基本走向决策支持系统, 编制该模型的应用软件, 并将其应用到某新建铁路基本走向选择中, 给出了相应的方法和步骤, 确定了新建铁路基本走向方案的优先顺序, 结果证明此方法和模型是有效的.

关键字：铁路选线; 基本走向; 消去与选择转换法; 决策支持系统

The fundamental trend decision support system for new railway

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Abstract: The study of matching and selecting of the fundamental trend schemes of new railway plays a very important role in the whole railway construction, which is also a very complicated problem. In order to improve the study on railway green design,it is more and more necessary and important to establish the methods and systems of computer aided decision-making of matching and selecting of the fundamental trend schemes of new railway.In this thesis, based on the the TOPPSIS and Elimination Et Choice Translating Reality, i.e., ELECTRE, the fundamental trend decision support system is set up.Finally, taking for example the matching and selecting of line schemes applied to a new railway, the priority of the fundamental trend of the new railway is confirmed. Its application software is presented and the application example is given.

Key words:railway location;fundamental trend;Elimination Et Choice Translating Reality;decision support system