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基于D-S证据融合的民机维修性模糊综合评判

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The Fuzz Comprehensive Evaluation of Aircraft Maintenance Based on D-S Evidence Combination

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摘要

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摘要 根据民用飞机维修性综合评判的特点,将模糊综合评判方法和D-S证据融合方法有机的结合起来,实现了对民用飞机维修性的综合评判。即通过对影响民机维修性指标及其与方案选择间的层次结构模型的确定,利用决策者采用同一标准的打分,确定了不同方案的指标综合的加权值,最终根据该值对设计方案或者不同机型的维修性优劣进行评判。

关键词: 维修性 模糊综合评判 D-S证据融合方法 民用飞机

Abstract: Based on the characters of comprehensive evaluation of civil aircraft maintenance, the comprehensive evaluation method of civil aircraft maintenance is specified by the combination of the fuzz comprehensive evaluation and D-S evidence combination method. As shown in this paper, by defining both the influenced maintenance indexes and the hierarchy structure models, the best project may be selected at last on maintenance between different designs or aircraft models by weight values of several integrated indexes which are marked by decision-maker at the same standard.

Keywords: maintenance fuzz comprehensive evaluation D-S evidence combination civil aircraft

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