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基于群广义直觉模糊软集的空袭目标威胁评估方法

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Threat assessment of aerial targets based on group generalized intuitionistic fuzzy soft sets

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摘要

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摘要

空袭目标威胁评估是提高防空武器系统应对多目标的基础. 针对威胁评估的实时性、多因素和信息不确定性问题, 构建一种基于群广义直觉模糊软集的多属性威胁评估模型. 在选择合适的威胁评估指标和量化方法的基础上, 引入多专家参量集来弥补传统广义直觉模糊软集中单个专家的评估不准确性和知识局限性等缺陷. 通过应用实例分析并与其他最新决策评估方法进行比较, 验证了该方法的可行性和有效性.

关键词: 威胁评估, 直觉模糊集, 广义直觉模糊软集, 群决策

Abstract:

The threat assessment of aerial targets is the basis for improving the ability that air defense system deals with various objects. Considering the timeliness, multi-factor and imprecision in a threat assessment process, a group generalized intuitionistic fuzzy soft sets (G-GIFSS) is constructed to fulfill the threat assessment. Among them, after selecting suitable evaluation indexes and quantitative methods, a multi-expert parameter set is introduced to overcome the knowledge limitation of the only one expert in original GIFSS. Finally, the feasibility and effectiveness of the proposed method for threat assessment is verified by comparison with other state-of-the-art decision methods on a practical instance.

Key words: threat assessment intuitionistic fuzzy sets generalized intuitionistic fuzzy soft sets group decision making

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