

论文

基于粗糙模糊集理论的卫星导航系统作战效能评估方法

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摘要:

针对卫星导航系统在信息化战争中的地位与作用,提出了一种基于粗糙集和模糊集理论的作战效能评估方法——粗糙模糊集理论,并对粗糙模糊集理论的算法进行了分析和设计,建立了卫星导航系统作战效能评估指标体系.最后结合实例,运用粗糙模糊集理论对卫星导航系统作战效能进行了评估,给出了效能评估的决策规则.

关键词: 粗糙模糊集 卫星导航系统 作战效能评估 决策规则

Combat effectiveness evaluation method of satellite navigation system based on rough fuzzy sets

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Abstract:

with the increasing effect and signification of satellite navigation system in information-age war, a new evaluation method for combat effectiveness——rough fuzzy sets theory (RFS) was proposed based on rough sets and fuzzy sets theory, and the algorithm of RFS was analyzed and designed. Effectiveness evaluation index system of satellite navigation system was also established. Finally, the combat effectiveness of satellite navigation system was evaluated by RFS for instance, and decision rules were also given.

Keywords: rough fuzzy sets satellite navigation system combat effectiveness evaluation decision rules

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