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主被动多传感器多目标状态信息融合

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ACTIVE PASSIVE MULTI SENSOR MULTI TARGET STATE INFORMATION FUSION

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摘要

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摘要

研究了主被动多传感器多目标状态信息融合问题。针对被动式跟踪的特点, 借助主动跟踪的距离通道值, 提出类主动的被动式跟踪。在此基础上提出主被动串联状态信息融合和并联状态信息融合算法。仿真结果表明两种状态信息融合方法都可以大大提高跟踪精度, 同时还可以提高系统的可靠性。

关键词: 信息融合 目标跟踪 多传感器应用

Abstract:

The problem of active passive multisensor multitarget state information fusion is studied. For passive tracking, by use of the range measurement from the active sensor, passive tracking is modelled similar to the active one. Two algorithms, active passive series and parallel state information fusion, are presented. The simulation indicates that not only tracking performance but also systematic reliability can be improved.

Keywords: information fusion target tracking multisensor application

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