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# 基于相关性函数和模糊贴近度的 多传感器

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Title: Multi－sensor Data Fusion Based on Correlation Function and Fuzzy Clingy Degree

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关键词: 多传感器; 相关性函数; 模糊贴近度; 数据融合

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摘要: 针对多传感器数据融合中，各传感器测量数据的可靠程度难以确定以及如何提高数据融合结果的精 度问题。文中提出了利用模糊理论中的相关性函数来计算多传感器的相互支持程度，并基于模糊贴近度，对 支持程度高的传感器数据进行融合。仿真结果表明，相比同类融合方法，该方法获得的结果具有更高的精度 和可靠性。

Abstract: Focused on the problem that it is difficult to determine t he reliability of each sensor and improve precision of the data fusion result in the process of the multi－sensors data fusion. In the paper, a new data fusion method based on correlation function and fuzzy clingy degree is proposed. The mutu al supportability of multiple sensors is obtained from the correlation function. Then by the membership function, the rel iability of information provide by each sensor is gained. Finally, the supposed fusion result can be produced on th e basis of fuzzy clingy degree. The simulation experi－ ment shows that the fusion results have higher precision and relia bility compared with other methods.

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