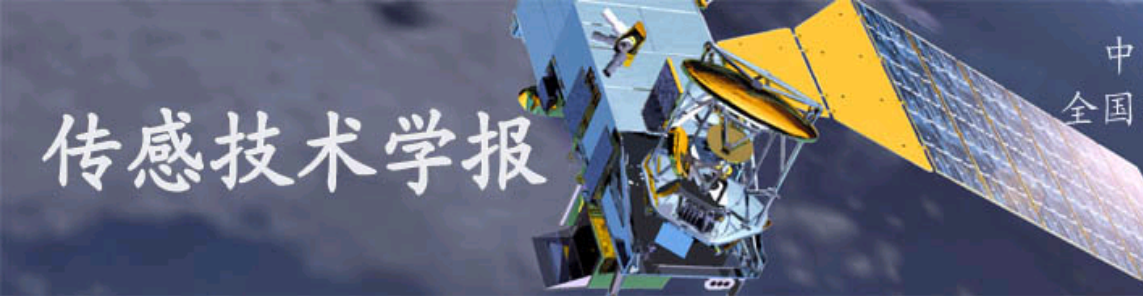

抗野值鲁棒滤波在微惯性组合导航中的应用

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摘　要：

在鲁棒 滤波应用过程中，如果量测序列含有野值，将会严重影响滤波精度。针对这一问题本文提出一种新的剔除野
数特性，通过最细尺度上的小波系数来检测野值点，然后基于信息扩散原理，采用替代方法，对含有单个或连续野值
目的。通过对基于MEMS的车载微惯性SINS/GPS组合导航的仿真表明，新算法能够有效的检测出野值，并在野值单个

关键词：野值检测；野值剔除；小波变换系数；信息扩散；新息修正

The Application of Robust Filtering for Outliers Restraining in MEMS Integrat

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Abstract:

In the light of practical application the outliers makes the estimation of filtering inaccurate. The paper proposes a new outlier
of new information, first use the coefficient characteristic of wavelet transform, The wavelet coefficient of the fine scale is u
information pervasion theorem is used to correct the single outlier or series outliers. The simulation of MEMS-SINS/GPS int
system shows that the new algorithms can detective outliers effectively and ensure the precision of filtering exactly.

Keywords: outliers detecting; outliers eliminating; wavelet transform coefficients; information pervasion; innovation revising

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