

Accepted Manuscript

Detection of Weak Maneuvering Target Based on Keystone Transform and Matched Filtering Process

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PII: S0165-1684(17)30184-6
DOI: [10.1016/j.sigpro.2017.05.013](https://doi.org/10.1016/j.sigpro.2017.05.013)
Reference: SIGPRO 6480

To appear in: *Signal Processing*

Received date: 10 January 2017
Revised date: 5 April 2017
Accepted date: 11 May 2017

Please cite this article as: Zhi Sun, Xiaolong Li, Wei Yi, Guolong Cui, Lingjiang Kong, Detection of Weak Maneuvering Target Based on Keystone Transform and Matched Filtering Process, *Signal Processing* (2017), doi: [10.1016/j.sigpro.2017.05.013](https://doi.org/10.1016/j.sigpro.2017.05.013)



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Highlights

- The problems of range migration and Doppler frequency migration for the weak maneuvering target are addressed.
- A method based on keystone transform and matched filtering process, i.e., KT-MFP, is proposed to obtain the coherent integration and achieve the maneuvering target detection.
- The KT-MFP can obtain superior coherent integration and detection performance for both the slowmoving and fast-moving target, in comparison with the existed algorithms.
- The KT-MFP requires lower computational cost without the BSSL effect, in compared with GRFT. April 5, 2017 DRAFT

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