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Radar Maneuvering Target Detection Based on Two Steps Scaling and Fractional Fourier Transform

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Highlights

- The problems of quadratic range migration and Doppler frequency migration for the maneuvering target are addressed.
- A method based on TSS-FrFT is proposed to achieve the coherent integration and it has superior detection performance and low computational complexity.
- The acceleration matched filter is presented to remove the DFRC caused by the sudden change of targets acceleration.

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