

A Segmented Filtering Method of Anti Interrupted Sampling Jamming

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Abstract

Interrupted-sampling jamming (ISJ) is a big threat to large time-band width radar. In order to enhance anti-jamming capability of radar, it is a key problem to filter the jamming without harm to target information. To solve the problem, this letter proposes a new method to filter the jamming by designing filters dividedly after estimating the ISJ parameters. The filters change the state of jamming and make it fused with the echo. Experiments show that this method can divide the jamming and echo. The reduction of ISJ is about 6dB

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