



TIME REVERSAL BASED SIGNAL PROCESSING TECHNIQUES: ALGORITHMS AND APPLICATIONS ON ULTRAWIDEBAND ELECTROMAGNETIC REMOTE SENSING

Mehmet Emre Yavuz

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Over last few decades, the time-reversal techniques have increasingly found applications in various disciplines ranging from medicine to telecommunications. One such discipline is the microwave remote sensing where only a limited academic literature exists on how to utilize time-reversal concept for improved sensing performance. This book, therefore, introduces novel time-reversal based signal processing techniques employing ultrawideband electromagnetic waves for the detection and imaging of obscured objects. Several distinct algorithms utilizing spatial, frequency and polarization data have been theoretically and numerically analyzed and an inverse filter approach is introduced for the compensation of lossy and dispersive environment effects. The algorithms presented here should especially be helpful to professionals in the fields of Microwave Remote Sensing and Signal Processing or anyone else who may consider adapting these algorithms in different applications such as microwave breast cancer detection, nondestructive testing or synthetic aperture radar.

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