

عنوان مقاله:

High Resolution Microwave Imaging for Point Targets in Continuous Random Media Using TRMUSIC

محل انتشار:

دومین همایش ملی مهندسی برق ایران (سال: 1393)

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خلاصه مقاله:

Time reversal with multiple signal classification (TR-MUSIC) is a super-resolution imaging method for locating and detecting hidden objects in complex environments, inhomogeneous, and cluttered media. In this study, the imaging of point scatterers in continuous inhomogeneous random media is investigated. Furthermore, the effect of random medium statistics on the TR operator eigenvalues and eigenvectors for two close targets is inspected. Because assuming a well-resolved point like scatterer, the performance of the method for two closely separated targets is unknown. The novelty in this work is the performance evaluation of the proposed method and evaluating the quality of the resultant images in random media.

کلمات کلیدی:

Multiple-signal classification (MUSIC), electromagnetic (EM) propagation in random media, FDTD method

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