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Report title: Radar weak target detection via coherent integration transform

Abstract:

The effective detection of weak targets is a very important and challenging task for radar signal processing filed. Coherent integration transform can improve SNR and radar detection performance by using amplitude and phase information of target multidimensional signal simultaneously. This report will introduce the problems faced by the -coherent integration processing of radar weak target signals and the related research work of our group.

Biography:

Xiaolong Li received the B.S. and Ph.D. degrees in Electronic Engineering from the University of Electronic Science and Technology of China (UESTC), Chengdu, China, in 2011 and 2017, respectively. From 2018 to 2019, he was a Visiting Researcher with the National University of Singapore, Singapore. He is currently an professor with UESTC. He is selected for the Young Talents Program of the CAST, and also the Outstanding Doctoral Society Award of the CIE. He was successfully selected for the First Electronic Information Frontier Young Scholars Publishing Project. His research interests include radar moving target detection, and MIMO radar signal processing.