

Abstract

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Two Dimensional Direction of Arrival Estimation Using Single Snapshot of Non-uniformly Spaced Planar Array

Direction of arrival estimation (DOA) is one of the most demanding problems which one has to solve for localizing and tracking multiple rapidly moving targets as in radar, mobile communication and in other areas. In this paper, an approach is presented for two dimensional direction of arrival estimation using a single snapshot of the voltage measured at nonuniformly spaced omnidirectional isotropic point sources in a planar array.