



ON H-INFINITY BASED DIRECTION FINDING AND SOURCE DETECTION (WedPmOR7)

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✳ Abstract :

Recently, the authors have proposed a novel approach to Direction-Of-Arrival (DOA) estimation using the H_∞ criterion. This article examines the limits of performance of H_∞ -based direction finding and arrives at a lower bound on the estimation error, analogous to the Cramer-Rao Bound (CRB). Furthermore, the analysis of the H_∞ -based algorithm's prediction error using one of Akaike's information criteria shows that the direction finding algorithm at hand possesses source detection ability.

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