



LOCALIZATION OF SOURCES RADIATING ON A LARGE ANTENNA (TueAmPO4)

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★ Abstract :

In this paper, we present a subspace-based method for direction finding for adiolocation of localization of mobile station. Indeed, an original partition of the data cross-spectral matrix is proposed in order to use a small part of the observations to estimate the noise subspace projector without eigendecomposition, when the number of sensors of antennas is larger than the number of sources. Once, at least two angles of arrival of the mobile station are estimated by two different antennas, the position of the mobile is then calculated. Finally, to demonstrate the efficiency of the proposed method, performance results are presented.