سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
گواهی ثبت مقاله در سیویلیکا
CIVILICA.com

عنوان مقاله:

mproved Khatri-Rao Algorithm for DOA Estimation of Quasi-stationary Signals in Large Arrays

محل انتشار:

هفتمین کنفرانس ملی مهندسی برق و الکترونیک ایران (سال: 1394)

تعداد صفحات اصل مقاله: 4

نویسندگان:

Zohreh Ebadi - *Electrical Engineering Department Tehran South Branch, Islamic Azad UniversityTehran, Iran*

Shahriar Shirvani Moghaddam - *Electrical Engineering Department Shahid Rajaee Teacher Training University Tehran, Iran*

Mina Modaresi - *Electrical Engineering Department Tehran South Branch, Islamic Azad UniversityTehran, Iran*

خلاصه مقاله:

The main objective of this paper is to propose a new algorithm for DOA estimation of quasi-stationary signals in large arrays. The well-known Khatri-Rao algorithm fails to estimate DOAs of quasi-stationary signals, when the number of snapshots and the number of sensors are comparable. So, in this investigation, to handle this problem, Girko subspace scaled MUSIC (G-SSMUSIC) is utilized to estimate DOAs. Proposed algorithm is based on a combination of Khatri-Rao approach which estimates DOA of quasi-stationary signals and GSSMUSIC method appropriate for large arrays. Several simulations are made to evaluate the performance of proposed algorithm. Simulation results show that RMSE of the proposed algorithm is about 19 times lower than RMSE of conventional Khatri-Rao algorithm .in similar conditions

کلمات کلیدی:

Direction of Arrival (DOA); Khatri Rao; GSSMUSIC;Large Array

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/459528