عنوان مقاله:

Estimating the Velocity of Mobile Stations in Macro-cellular Systems

محل انتشار:

سیزدهمین کنفرانس مهندسی برق ایران (سال: 1384)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

This paper presents a novel method for estimating the velocity of a mobile station (MS) in a typical macro-cell. The proposed estimator uses the auto-correlation function of the instantaneous frequency (IF) of the received signal at the MS antenna. The performance of the proposed estimator i n the presence of shadowing, additive noise, and non-isotropic scattering is studied analytically. It is proved that, unlike existing velocity estimators, the IF-based estimator is robust to shadowing.

کلمات کلیدی:

velocity estimation, instantaneous frequency,macro-cellular systems

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/42187