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基于WINC的自适应主分量提取的盲多用户检测算法

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摘要:

本文提出了一种新的基于子空间追踪的盲多用户检测算法。首先分析了基于加权信息准则(WINC)的自适应 主分量提取(APEX)方法,然后将AIC准则与之结合使其能用于主分量个数未知的情况,最后还增加了一次正交 化操作以加快收敛速度。仿真结果显示,本文提出的算法在用户数目较多的情况下比经典的OPAST算法有着更好 的性能。

关键词: WINC: APEX: AIC准则: 盲多用户检测: 子空间追踪: OPAST

The usage of adaptive principal components extraction based on WINC in blind multiuser detection

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Abstract:

In this paper, a novel blind multiuser detection algorithm based on subspace tracking is proposed. First, we ▶何峰 analyze a Adaptive Principal Components Extraction (APEX) algorithm based on Weighted Information Criterion(WINC), and then the AIC criterion is added to the algorithm in order to fit the case that the number of users is unknown. Finally, we use an orthogonal operation to fast the convergence speed. We then compare it with the OPAST algorithm, the result shows that when the number of users is big, the proposed algorithm performs much better than OPAST.

Keywords: WINC APEX AIC Criterion Blind Multiuser Detection Subspace Tracking OPAST 收稿日期 2009-03-06 修回日期 2009-05-12 网络版发布日期 2010-01-25

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