

[1] 翟永智, 景占荣, 闫要岗. 广义双曲线分布信号在无线信道中分离和鲁棒性的研究[J]. 弹箭与制导学报, 2009, 2: 235.

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广义双曲线分布信号在无线信道中分离和鲁棒性的

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本期目录/Table of Contents
下一篇/Next Article
上一篇/Previous Article

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Title: Research on Separating and Robustness of GHD Signal in Wireless Channel

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关键词: 满条件分布; DW 分布; 广义双曲线分布模型; MCMC; 信号分离

Keywords: full condition distri bution ; DW distri bution ; generalized hyperbolic distri bution ; MCMC; separation of the signal

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摘要: 为了对无线信道的信号进行分离和对系统鲁棒性进行分析, 文中把广义双曲线分布和小样本方法结合起来描述无线信道的状态。用MCMC方法来得到信道参数的满条件后验似然分布函数, 对其采样来实现对信号的分离, 同时用充分统计量对系统的鲁棒性进行分析。仿真结果表明, 对于文中研究的模型, 广义双曲线分布的假设是合理的。

Abstract: To the separation of the signal of wireless channel and the analysis of the robustness of syste m, the generalized hyperbolic distri bution (GHD) model and DW method are presented i n this paper to descri be distri bution characteristics of wireless channel state . The full condition of posterior distri bution li keli hood function is derived by usi ng MCMC method . The separation of the signal is fulfilled by the samples drawn fro mthe full condition distri bution functions . In additional , the robustness of syste mis analyzed by the application of sufficient statistics . Si mulation results showthat the assumption of GHDis reasonable to the proposal model i n this paper .

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