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Research Article

A Robust Channel Estimation for SCFDMA System

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ABSTRACT

In this paper, a robust technique is proposed for a single carrier frequency division multiple access system channel estimation in flat- fading non- Gaussian channels. Further, a new M-estimator is proposed for the robustification of the proposed detector. Simulation results are also provided to demonstrate the efficacy of the proposed detector over the least squares, Huber and Hampel based detectors in flat- fading non- Gaussian channels.

Keywords: Channel estimation, fading channels, M-estimator, SC-FDMA.

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