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Abstract

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Methods and Apparatus for Receiving OFDM Signals

- 5 A receiver for OFDM signals estimates the carrier frequency offset from a training sequence of symbols in the received signal, by minimising a cost function which includes terms generated from the received signal at pairs of symbols which are not just nearest-neighbours in the symbol sequence. For example, the cost function may include not just terms generated between nearest neighbour
- 10 symbols, but between all pairs of symbols. Thus, the invention makes it possible to obtain much more statistics than in conventional methods from the same training sequence. This can increase signal-to-noise ratio (SNR) as compared to prior art systems. Accordingly, a more accurate estimate of carrier frequency offset can be achieved.

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[Fig. 2]

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