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Author Cheng-Lin Yu
Author's Email Address No Public.
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Abstract In the paper, the estimation of a symbol timing and carrier frequency offset in the UWB channel takes advantage of the joint Maximum Likelihood approach, which combines cyclic prefix with pulse shaping. The multiple symbols with pulse shaping were exploited in order to improve the performance in the UWB channel. A large number of combined symbols may cause to increase the computational complexity of the estimator. This paper presents one-by-one accumulation scheme of each symbol in order that the estimator can maintain computational complexity and improve the performance, simultaneously.
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