Signal Design and Receiver Simplification for MFSK-UWB

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UWB Definition

Rationale: UWB is power constrained, not bandwidth constrained

Penalty for lower complexity

Comparison of previous results for Binary modulations

Proposal: Signal design: Receiver Simplification:

- Power efficient (not bandwidth efficient)
- Has low sensitivity to phase noise, and can use non-coherent and non-bandwidth effective receivers
- High performance signal design
- Can achieve rates in the order of Capacity

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