PEAK POWER REDUCTION IN OFDM SYSTEMS USING DYNAMIC CONSTELLATION SHAPING (TueAmOR4)

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* Abstract :  
In this paper, we propose a new peak−to−average power ratio (PAPR) reduction algorithm for OFDM transmission. The algorithm is based on dynamically shaping the signal constellation using a decision metric, and it does not require transmitting any side information to the receiver. Compared to other recently introduced PAPR reduction techniques based on constellation shaping, the proposed algorithm is very simple and does not involve any complex optimization procedures. Its performance is investigated using OFDM signaling with a QPSK signal constellation.