

DHT-OFDM Based Spatial Modulation for Optical Wireless Communication

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Abstract—The combination of orthogonal frequency division multiplexing (OFDM) and spatial modulation (SM) can enhance the capacity of optical wireless communication (OWC) systems with low complexity. In this paper, we propose a novel SM scheme for intensity modulation/direct detection (IM/DD) OWC systems by employing discrete Hartley transform based OFDM (DHT-OFDM). Due to the use of DHT with one-dimensional constellations, the Hermitian symmetry constraint, which is generally imposed in conventional discrete Fourier transform based OFDM (DFT-OFDM) to obtain a real-valued output signal, is not required in DHT-OFDM. As a result, DHT-OFDM based SM can achieve much higher spectral efficiency than that of DFT-OFDM based SM in OWC systems. Simulation results show that, for an indoor 4×4 SM-OWC system with a spectral efficiency of 6 bits/s/Hz, DHT-OFDM achieves a remarkable 4.5-dB transmit signal-to-noise ratio reduction for an overall bit error rate of 10^{-5} in comparison to conventional DFT-OFDM.

Keywords—Spatial modulation, orthogonal frequency division multiplexing, optical wireless communication.

I. INTRODUCTION

Due to the rapid growth of smart mobile devices which demand high definition video streaming, low-latency gaming and virtual/augmented reality in our daily life, the mobile data traffic is exponentially increased in recent years. However, the existing radio frequency (RF) spectrum will be saturated in the near future. In order to support the ever-increasing mobile data traffic, it might be necessary to exploit the higher frequency of the electromagnetic spectrum, i.e., the optical spectrum including visible light, infrared and ultra-violet [1]. As a very promising candidate to satisfy the demand of heavy mobile data traffic for mobile users, optical wireless communication (OWC) has attracted great attention lately [2]. Typical OWC systems use laser diodes (LDs) or light-emitting diodes (LEDs) as transmitters and photo-diodes (PDs) as receivers, which generally adopt intensity modulation with direct detection (IM/DD) for signal transmission [3].

Commercial off-the-shelf optical elements usually have very limited electrical bandwidth, and hence various capacity-enhancement techniques have been applied in OWC systems to achieve high capacity. Among them, orthogonal frequency division multiplexing (OFDM) modulation using high-order quadrature amplitude modulation (QAM) constellations and multiple-input multiple-output (MIMO) transmission are two

most popular techniques [4]–[8]. Due to the IM/DD nature of OWC systems, the Hermitian symmetry constraint is usually imposed in OFDM modulation so as to obtain a real-valued signal and a direct current (DC) bias is usually added to convert the bipolar signal into a non-negative unipolar signal for intensity modulation in LD/LED transmitters. Moreover, mainly three types of MIMO transmission schemes can be applied in OWC systems, including repetition coding (RC), spatial multiplexing (SMP) and spatial modulation (SM) [6]. RC is the simplest MIMO scheme which can provide transmit diversity for OWC systems, but with the lowest spectral efficiency. SMP can provide high spectral efficiency, but suffers from severe inter-channel interference (ICI) due to channel correlation and high detection complexity. As a digitized MIMO scheme, SM has the advantages of reduced ICI, increased power efficiency and low detection complexity compared with SMP [9]. Nevertheless, the spectral efficiency of SM is relatively lower than SMP.

The combination of OFDM and SM has been shown as an efficient way to enhance the capacity of bandlimited OWC systems with low complexity, where SM can be implemented in the frequency domain or in the time domain [10], [11]. Although OFDM with time-domain SM can achieve higher spectral efficiency than that with frequency-domain SM, it requires a secondary DC bias to avoid zero samples after zero clipping, which might reduce the power efficiency of the system [12]. To improve the spectral efficiency of bandlimited OWC systems employing OFDM with frequency-domain SM, in this paper, we propose a novel SM scheme based on discrete Hartley transform based OFDM (DHT-OFDM). By utilizing DHT with one-dimensional constellations, the Hermitian symmetry constraint in discrete Fourier transform based OFDM (DFT-OFDM) can be eliminated [13], and hence the spectral efficiency can be greatly increased in bandlimited OWC systems. The superiority of DHT-OFDM over DFT-OFDM has been verified in a typical indoor 4×4 SM-OWC system via numerical simulations.

II. SYSTEM MODEL

In this section, we introduce the model of a general IM/DD SM-OWC system using OFDM modulation. The model of a typical MIMO OWC channel is first described and then two different IM/DD SM-OWC systems based on DFT-OFDM and DHT-OFDM are respectively discussed.

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