Layered Aco Ofdm For Intensity Modulated Direct Detection

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Layered Aco Ofdm For Intensity

Layered asymmetrically clipped optical orthogonal frequency division multiplexing (ACO-OFDM) with high spectral efficiency is proposed in this paper for optical wireless transmission employing intensity modulation with direct detection. In contrast to the conventional ACO-OFDM, which only utilizes odd subcarriers for modulation, leading to an obvious spectral efficiency loss, in layered ACO ...

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The recently proposed LACO-OFDM consists in a layering of multiple ACO signals, which depends on the signal's symmetry propeties (see Section 5.3 for more details).

(PDF) Layered ACO-OFDM for intensity-modulated direct ...

Layered ACO-OFDM for intensity-modulated direct-detection optical wireless transmission Qi Wang,1 Chen Qian,1 Xuhan Guo,2 Zhaocheng Wang,1,∗ David G. Cunningham,3 and Ian H. White2 1Tsinghua ...

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Layered Aco Ofdm For Intensity Modulated Direct Detection Author: www.h2opalermo.it-2020-11-23T00:00:00+00:01 Subject: Layered Aco Ofdm For Intensity Modulated Direct Detection Keywords: layered, aco, ofdm, for, intensity, modulated, direct, detection Created Date: 11/23/2020 5:33:50 AM

Layered Aco Ofdm For Intensity Modulated Direct Detection

Optical-orthogonal frequency division multiplexing (O-OFDM) is regarded as an effective scheme for intensity modulation and direct detection (IM-DD) based visible light communication (VLC) systems. State-of-the-art O-OFDM approaches complying with IM-DD constraints are; direct-current (DC) biased O-OFDM (DCO-OFDM) and asymmetrically clipped (AC)O-OFDM. ACO-OFDM has half the spectral efficiency ...

Performance analysis of precoded layered ACO-OFDM for ...

Layered/enhanced asymmetrically clipped optical orthogonal frequency division multiplexing (L/e-ACO-OFDM, shortened as L/e-ACO) has recently attracted increasing interests for the intensity-modulated directed-detected (IM/DD) optical wireless communication (OWC). This form of optical OFDM can achieve a high spectrum efficiency without a DC bias; however, similar to the conventional OFDM, L/e ...

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L/E–ACO-OFDM and a comparison with DCO-OFDM in a short-haul optical fiber link. We used a truncated second-order Volterra filter to equalize the DCO-OFDM and the L/E-ACO-OFDM signals. A noise cancellation algorithm was also implemented for L/E-ACO-OFDM. Our results show that, for the same laser bias current and output power, L/E-ACO-OFDM

Experimental Layered/Enhanced ACO-OFDM short-haul optical ...

Interleaved DFT-Spread Layered/Enhanced ACO-OFDM for Intensity-Modulated Direct-Detection Systems

Interleaved DFT-Spread Layered/Enhanced ACO-OFDM for ...
The hybrid counterpart of ACO-OFDM is the layered ACO-OFDM (LACO-OFDM) , , which stacks layers of ACO-OFDM; with each succeeding layer modulating the empty subcarriers left by the preceding layers. Augmented SE-DMT (ASE-DMT) [10] and enhanced U-OFDM (eU-OFM) [11] are hybrid counterparts of PAM-DMT and U-OFDM/Flip-OFDM, respectively.

Performance analysis of precoded layered ACO-OFDM for ...
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Layered Aco Ofdm For Intensity Modulated Direct Detection
Field-Trial of Layered/Enhanced ACO-OFDM Binhuang Song (1), Bill Corcoran (1,2), Qibing Wang (1), Arthur James Lowery (1,2) (1) Electro-Photonics Laboratory, Electrical and Computer Systems Engineering, Monash University, Clayton, VIC 3800, Australia, arthur.lowery@monash.edu (2) Centre for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS), Australia.

Field-Trial of Layered/Enhanced ACO-OFDM
Intensity modulation and direct detection (IM/DD) is a cost-effective optical communication strategy which finds wide applications in fiber communication, free-space optical communication, and indoor visible light communication. In IM/DD, orthogonal frequency division multiplexing (OFDM), originally employed in radio frequency communication, is considered as a strong candidate solution to ...

OFDM Systems for Optical Communication with Intensity ...
In intensity modulation/direct detection- (IM/DD-) based optical OFDM systems, the requirement of the input signal to be real and positive unipolar imposes a reduction of system performances. Among previously proposed unipolar optical OFDM schemes for optical wireless communications (OWC), asymmetrically clipped optical OFDM (ACO-OFDM) and direct current biased optical OFDM (DCO-OFDM) are the ...

BER Performance of Stratified ACO-OFDM for Optical ...
In this paper, a triple-layer hybrid optical orthogonal frequency division multiplexing (THO-OFDM) for intensity modulation with direct detection (IM/DD) systems with a high spectral efficiency is proposed. We combine N -point asymmetrically clipped optical orthogonal frequency division multiplexing (ACO-OFDM), N /2-point ACO-OFDM, and N /2-point pulse amplitude modulated discrete multitoned ...

Spectrum-Efficient Triple-Layer Hybrid Optical OFDM for IM ...
A Comparative Study of Unipolar OFDM Schemes in Gaussian Optical Intensity Channel Jing Zhou, Member, IEEE, and Wenyi Zhang, Senior Member, ... Orthogonal frequency division multiplexing (OFDM) has ... the layered ACO-OFDM (LACO-OFDM) [16], and the eACO-OFDM [17]. TABLE II

A Comparative Study of Unipolar OFDM Schemes in Gaussian ...
form [10] and the superposition approach as the layered ACO-OFDM waveform [11] and the enhanced U-OFDM waveform [12] are analyzed. The ADO-OFDM waveform combines the DCO-OFDM at the even sub-carriers and the ACO-OFDM at the odd sub-carriers. The layered ACO-OFDM waveform has multiple layers, where each layer uses the carefully selected sub ...

JOURNAL OF LA Two Types of Mixed Orthogonal Frequency ...
As a promising modulation technology for optical communication, Orthogonal Frequency Division Multiplexing (OFDM) is now increasingly used and a lot of ways of improving the optical efficiency of Intensity Modulated/ Direct Detection (IM/DD) systems have been proposed. And real and non-negative OFDM signals are required in this kind of system.

Comparison and Analysis of DCO-OFDM, ACO-OFDM and ADO-OFDM ...
OFDM. We assume FFT and IFFT sizes of both ACO-OFDM and FLIP-OFDM are the same. N denotes

the FFT and IFFT size for each case. Here, we do not compress the time scale and two consecutive OFDM symbols of FLIP-OFDM have the same bandwidth and the same cyclic prefix as those of ACO-OFDM, as shown in Fig.6. 3.3.2 Spectral Efficiency: In ACO-OFDM ...

Comparative Study of FLIP -OFDM and ACO -OFDM for Unipolar ...
Layered ACO-FOFDM can compensate the weakness of traditional ACO-FOFDM in low spectral efficiency, the utilization of discrete cosine transform in FOFDM system instead of fast Fourier transform in OFDM system can reduce the computational complexity without any influence on BER performance.