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**Layered Aco Ofdm For Intensity**  
Abstract. Layered asymmetrically  
clipped optical orthogonal frequency

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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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OFDM, the subcarriers are divided into different layers and modulated by different kinds of ...

## **OSA | Layered ACO-OFDM for intensity-modulated direct ...**

Layered ACO-OFDM for intensity-modulated direct-detection optical wireless transmission. Wang Q, Qian C,

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Guo X, Wang Z, Cunningham DG, White IH. 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.

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Layered asymmetrically clipped optical orthogonal frequency division multiplexing (ACO-OFDM) with high spectral efficiency is proposed in this paper for optical wireless transmission employing...

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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.

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## **Layered ACO-OFDM for intensity- modulated direct-detection ...**

Abstract: 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-

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modulated directed-detected (IM/DD)  
optical wireless communication (OWC).

## **Interleaved DFT-Spread Layered/Enhanced ACO-OFDM for ...**

Optical-orthogonal frequency division  
multiplexing (O-OFDM) is regarded as an  
effective scheme for intensity  
modulation and direct detection (IM-DD)

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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.

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

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In this context, Layered Asymmetrically Clipped Optical Orthogonal Frequency Division Multiplexing (LACO-OFDM) is a promising candidate for transmission by virtue of its high power and spectral efficiency. Explicitly, the conventional Asymmetrically Clipped Optical OFDM (ACO-OFDM) only utilizes the odd-indexed subcarriers for transmission.

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## **Near-Capacity Multilayered Code Design for LACO-OFDM-Aided ...**

Abstract: Layered asymmetrically clipped optical orthogonal frequency division multiplexing (LACO-OFDM) has been proposed for improving the spectral efficiency of conventional asymmetrically clipped optical OFDM.

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Multiple base layers that are orthogonal in the frequency domain are sequentially superimposed to form LACO-OFDM, where each superimposed layer fills the empty subcarriers left by the previous layer.

**Performance Analysis of Layered  
ACO-OFDM - IEEE Journals ...**

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Layered (or Enhanced) ACO-OFDM is an alternative way to increase spectral efficiency of ACO-OFDM,, whilst still retaining most of its power efficiency.

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

Field-Trial of Layered/Enhanced ACO-OFDM Binhuang Song (1), Bill Corcoran

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(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.

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## **Field-Trial of Layered/Enhanced ACO-OFDM**

In this paper, three forms of orthogonal frequency division multiplexing (OFDM) designed for intensity modulated/direct detection (IM/DD) optical systems are compared. These are asymmetrically...

## **Comparison of ACO-OFDM, DCO-**

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## **OFDM and ADO-OFDM in IM/DD systems**

Orthogonal frequency division multiplexing (OFDM) based on intensity modulation and direct detection (IM/DD) is a promising candidate for future passive optical network (PON). As the IM/DD system requires the output to be unipolar, a direct current (DC) is

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required but with a reduced energy efficiency. Asymmetrically clipped optical OFDM (ACO-OFDM) has been proposed to improve the energy efficiency at the cost of a lower spectral efficiency.

## **Triple-layer hybrid optical OFDM scheme for passive ...**

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Layered ACO-OFDM for intensity-modulated direct-detection optical wireless transmission Qi Wang, Chen Qian, Xuhan Guo, Zhaocheng Wang, David G. Cunningham, and Ian H. White Opt. Express 23(9) 12382-12393 (2015)  
Hybrid Asymmetrically Clipped OFDM-Based IM/DD Optical Wireless System

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## **OSA | Spectrum-efficient hybrid PAM-DMT for intensity ...**

Layer 1 is conventional ACO-OFDM, occupying only the odd frequency subcarriers  $(2n + 1)$ ;  $n$  integer including zero. Layer 2 fills the even frequencies that are  $2(2n + 1)$ , for example 2, 6 and 10. Layer  $m$  fills  $2^{m-1}(2n + 1)$ .

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## **Spectrally efficient optical orthogonal frequency division ...**

Interleaved DFT-Spread

Layered/Enhanced ACO-OFDM for  
Intensity-Modulated Direct-Detection

Systems Bai, Ruowen; Wang,

Zhaocheng; Jiang, Rui; Cheng, Julian;

Abstract. Publication: Journal of

Lightwave Technology. Pub Date:

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October 2018 DOI:

10.1109/JLT.2018.2864275 Bibcode:

2018JLwT...36.4713B full text sources ...

## **Interleaved DFT-Spread Layered/Enhanced ACO-OFDM for ...**

Layered ACO-FOFDM can compensate the weakness of traditional ACO-FOFDM in low spectral efficiency, the utilization

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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.

## **An improved diversity combining receiver for layered ACO ...**

A spectrally efficient layered ACO- OFDM

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scheme has been recently proposed in for IM/DD optical wireless transmission, where the subcarriers are modulated through different layers using ACO-OFDM. These layers utilize different sizes of inverse fast

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