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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.

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

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

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wireless transmission employing intensity modulation with direct detection.

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

2017 Optical Fiber Communications Conference and Exhibition (OFC) We present an FPGA-based QPSK-encoded 9.375 Gb/s layered/enhanced ACO-OFDM transmitter giving a high spectral efficiency. The measured Q-factor is greater than 13 dB after 20-km standard single-mode fiber transmission.

### **[PDF] FPGA-based layered/enhanced ACO-OFDM transmitter ...**

ACO-OFDM has half the spectral efficiency (SE) of DCO-OFDM, howbeit, its SE can be augmented towards that of DCO-OFDM

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using layered ACO-OFDM (LACO-OFDM). Nevertheless, LACO-OFDM suffers from a high peak-to-average power ratio (PAPR). Forthright extension of PAPR reduction techniques devised for ACO-OFDM to LACO-OFDM can be unwieldy and complex.

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

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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 ...**

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

Enhanced unipolar orthogonal frequency division multiplexing (eU-OFDM) and layered asymmetrically clipped optical OFDM (LACO-OFDM) are spectrally efficient modulation techniques for intensity ...

## **Comparison of ACO-OFDM, DCO-OFDM and ADO-OFDM in IM/DD systems**

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.

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

This paper charts the development of spectrally efficient forms of optical orthogonal frequency division multiplexing (OFDM) that are suited for intensity-modulated direct detection systems, such a...

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

...

Asymmetrically clipped optical OFDM (ACO-OFDM) has been proposed to improve the energy efficiency at the cost of a lower spectral efficiency. With infinite layers' superimposition, layered ACO-OFDM (LACO-OFDM) can significantly improve the spectral efficiency while the computation complexity is very high.

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

Abstract: Layered/enhanced asymmetrically clipped optical orthogonal frequency division multiplexing (L/e-ACO-OFDM,

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shortened as L/e-ACO) has recently attracted increasing interests for the intensity-modulated directed-detected (IM/DD) optical wireless communication (OWC).

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

...

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

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

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



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complexity without any influence on BER performance.

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

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Although orthogonal frequency division multiplexing (OFDM) has been known for its advantages in quite a while [1]-[3], only in recent years it has turned into a major field of interest in optical communications [4], [5]. Particularly attractive is the intensity-modulation direct-detection (IM/DD)

### **Iterative Symbol Recovery For Power Efficient DC Biased**

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In this chapter, the concept of eU-OFDM is generalised to GeneRalizEd ENhancEd UnipolaR OFDM (GREENER-OFDM), and extended to other unipolar OFDM schemes (asymmetrically clipped optical orthogonal frequency division multiplexing (ACO-OFDM) and pulse-amplitude-modulated discrete multitone

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modulation (PAM-DMT)).

## **Mohamed Sufyan Islim - Research Associate - University of ...**

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