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Inter-channel Interference correlation matrix in OFDM ...
Inter-channel Interference correlation matrix in OFDM system based on GCE-BEM. Tao CHI *1, Sizhen FAN**, Lidong WANG*, Xuebo CHEN* *University of Science and Technology Liaoning, Anshan, 114044, P. R.China **Shenyang University Xinmin Normal College, Xinmin, 110300, P. R.China 1. E-mail: chitao@163.com. Abstract—Orthogonal Frequency Division Multiplexing (OFDM)

Inter-channel Interference correlation matrix in OFDM ...
Such systems are based on OFDM and are designed to operate in the 5 GHz band. OFDM is a special case of multi-carrier modulation. Multi-carrier modulation is the concept of splitting a signal into a number of signals, modulating each of these new

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signals to several

Encrypted image transmission in OFDM-based VLC systems ...

Inter-carrier Interference: Presence of Doppler shifts and frequency and phase offsets in an OFDM system causes loss in orthogonality of the subcarriers. As a result, interference is observed between subcarriers. This phenomenon is known

Channel estimation for OFDM systems based on comb-type ...

This paper investigates the problem of carrier frequency estimation in an orthogonal frequency-division multiplexing (OFDM)-based cognitive radio system that operates in the presence of narrowband

...

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Ofdm Systems Based On Inter

The term discrete multitone modulation (DMT) denotes OFDM-based communication systems that adapt the transmission to the channel conditions individually for each subcarrier, by means of so-called bit-loading. Examples are ADSL and VDSL.

Simulation and analysis of OFDM system based on simulink ...

Based on the channel model described by generalized complex exponential basis expansion model (GCE-BEM) in OFDM systems, which is more accurate than the conventional complex exponential basis...

Inter-symbol interference suppression scheme employing ...

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Finally, simulation of OFDM systems will be given due prominence. Simple MATLAB programs are provided for bit error rate simulation using a discrete-time OFDM representation. Software is also provided to simulate the effects of inter-block-interference, inter-carrier-interference and signal clipping on the error rate performance.

Power Adaptation in OFDM Systems Based on Velocity ...

Based on these results, we mainly focus on studying encrypted image transmission over chaotic DFT-precoded OFDM-based VLC systems. The main contributions of the present study are outlined below. (1) We established a mathematical model of the proposed chaotic DFT-precoded OFDM-based VLC system using symbol scrambling with a random bit source.

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Orthogonal frequency-division multiplexing - Wikipedia
Inter-symbol interference in OFDM systems – Part 2: It can be anywhere! Recently, while working on some improvements to Nutaq ' s orthogonal frequency-division multiplexing (OFDM) reference design, I faced a very frustrating but instructive problem: inter-symbol interference (ISI). ISI is usually generated when transmitting in a multipath ...

A Survey on Carrier Frequency Offset Estimation in OFDM ...
OFDM systems are sensitive to the inter-carrier interference (ICI) due to the time-selective fading. In high speed train applications, the performance of OFDM systems will be sig-

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OFDM Systems for Wireless Communications | Synthesis ...
CHANNEL ESTIMATION FOR OFDM SYSTEMS BASED ON COMB-TYPE PILOT ... the transform-domain processing based channel estimation algorithm, the MMSE estimate of pilot signals together with phase ... inserted to prevent possible inter-symbol interference in OFDM systems, and the resultant samples $\{z_g(n)\}$ are

(PDF) Overview on synchronization in OFDM systems
Channel Estimation Techniques Based on Pilot Arrangement in OFDM Systems Sinem Coleri, Mustafa Ergen, Anuj Puri Ahmad Bahai Electrical Engineering, UC Berkeley Electrical Engineering, Stanford University Berkeley, CA, USA Stanford, CA, USA
fcsinem,ergen,anujg@eecs.berkeley.edu ahmad.bahai@nsc.com

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Abstract—The channel estimation techniques for ...

Channel Estimation Techniques Based on Pilot Arrangement ... orthogonal frequency division multiplexing (OFDM) over frequency selective fading channel & AWGN. The performance of OFDM system is much sensitive to CFO, which causes inter-carrier interference (ICI). In cyclic prefix (CP) based estimation, the CFO can be estimated from the

Channel Estimation For OFDM Systems Based On Comb-Type ... High mobility support of multiple-input multiple-output (MIMO)-orthogonal frequency division multiplexing (OFDM) systems plays a major role in wireless communication systems. Conventional detection...

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Orthogonal Frequency Division Multiplexing (OFDM)

Inter-vehicular connectivity to enhance road safety and support highly autonomous driving is increasingly becoming popular.

Despite the prevalent works on radio-frequency (RF) based vehicular communication schemes, visible light communication (VLC) is considered to be a promising candidate for vehicular communications due to its low complexity and RF interference-free nature.

Cooperative MIMO-OFDM based inter-vehicular visible light ...

Abstract This paper proposes an inter-symbol interference (ISI) suppression scheme employing periodic signals for network MIMO-OFDM systems. Network MIMO-OFDM suffers from the ISI due

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to long time difference of arrival (TDOA) among the users especially in large cells.

Channel Estimation in OFDM Systems

Fig. 1. MIMO-OFDM system model. where $X_n(k)$ is the transmitted signal of n th transmit antenna on k th subcarrier. Also, to avoid inter-symbol interference (ISI), a cyclic pre fi x (CP) is inserted. After CP insertion, OFDM signals are ready to be transmitted. At the receiver, just after the ADC, fast Fourier transform

INTER-CARRIER INTERFERENCE CANCELLATION FOR OFDM SYSTEMS

Abstract: The channel estimation methods for OFDM systems

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based on a comb-type pilot sub-carrier arrangement are investigated. The channel estimation algorithm based on comb-type pilots is divided into pilot signal estimation and channel interpolation.

Inter-symbol interference in OFDM systems – Part 1 ...

Simulation and analysis of OFDM system based on simulink

Abstract: The OFDM technology can conquer the frequency selected fading and the inter-channel interference (ICI) effectively, so it is the core technology in the future mobile communications.

The basic principle and some key technologies of OFDM are studied in this paper.

ANN-Based Detection in MIMO-OFDM Systems with Low ...

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Baum (1998) proposed a new air interface concept for future OFDM based cellular systems called Synchronous Coherent Orthogonal Frequency Division Multiplexing (SC-OFDM). It is based on a combination of synchronized cells, orthogonal pilot codes and cyclic extension which is large enough to absorb both delay spread and inter-cell propagation delay.

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