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Blind Equalization And System Identification

The absence of training or pilot signals from many kinds of transmission – in, for example, speech analysis, seismic exploration and texture image analysis – necessitates the widespread use of blind equalization and system identification. There have been a great many algorithms developed for these purposes, working with one- or two-dimensional (2-d) signals and with single-input single-output (SISO) or multiple-input multiple-output (MIMO), real or complex systems.

Blind Equalization and System Identification (Advanced ...

"Blind Equalization and System Identification" provides such a unified treatment presenting theory, performance analysis, simulation, implementation and applications. This is a textbook for graduate courses in discrete-time random processes, statistical signal processing, and blind equalization and system identification.

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The rapid progress of digital and mixed-signal integrated circuits in processing speed, functionality and cost-effectiveness has led to their ubiquitous employment in signal processing and transmission in diverse milieux. The absence of training or pilot signals from many kinds of transmission – in, for example, speech analysis, seismic exploration and texture image analysis – necessitates the widespread use of blind equalization and system identification.

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The absence of training or pilot signals from many kinds of transmission – in, for example, speech analysis, seismic exploration and texture image analysis – necessitates the widespread use of blind equalization and system identification.

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Introduction The blind system identification (BSI) and blind channel equalization (BCE) problems addressed in this paper can be formulated as follows: A sequence of input signal $u[kh]$ is transmitted at sampling rate $1/h$ to a continuous time system via an impulse generator or a Zero Order Hold.

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ment of blind equalization and system identification for 1-D and 2-D (real or complex) signals as well as those for SISO and MIMO (real or complex) sys-tems, from theory, performance analysis, simulation, to implementation and

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Blind System Identification and Equalization. In early 1990's, we investigated blind system identification and equalization. In order to compensate for channel distortion, channel parameters have to be identified explicitly or implicitly. Blind signal processing estimates channel/system parameters only by means of statistics of the system outputs without using any training sequences.

Geoffrey Ye Li

support from some system identification or parameter estimation, the process is often called self recovering equalization. The more generally term Blind Equal-ization was specified and embossed by Beneviste and Gursat in [5]. Generally, a communication channel can be repre-sented by a filter as depicted in Fig. 1. The transmitted

blind equalization paper

Blind Equalization and Identification (Signal Processing and Communications) 1st Edition by Zhi Ding (Author), Ye Li (Author) 4.0 out of 5 stars 1 rating, ISBN-13: 978-0824704797, ISBN-10: 0824704797, Why is ISBN important? ISBN.

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Tsatsanis, "Time-varying system identification: A deterministic blind approach using antenna arrays - Liu, Giannakis, et al. - 1996 3 Giannakis, "Self-recovering equalization of time-selective fading channels using redundant filterbank precoders - Scaglione, Barbarossa, et al. - 1998

Basis Expansion Models and Diversity Techniques for Blind ...

In this paper, we introduce an algorithm for blind channel identification and equalization in OFDM-based multiantenna systems. Our approach uses second-order cyclostationary statistics, employs antenna precoding, and yields unique channel estimates (up to a phase rotation for each transmit antenna).

Blind channel identification and equalization in OFDM ...

Dr. Fan's research interests are in Adaptive Signal Processing, Blind Equalization, Digital and Wireless Communications, Systems Theory, and System Identification. Dr. Fan was funded for an extended period in the past mainly by the National Science Foundation and the Office of Naval Research for various research projects on adaptive signal ...

Dr. H. (Howard) Fan, h.fan@uc.edu

Blind Equalization and Identification By Zhi Ding, Ye Li. Hardback \$252.00 . eBook \$204.75 System requirements for Bookshelf for PC, ... and principles of blind algorithms for single input multiple output (SIMO) systems and multi-user extensions of SIMO equalization and identification. Table of Contents.

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By exploiting the noncircularity property, we also propose a new subspace-based blind channel identification algorithm and derive the channel identifiability condition. Blind identification can be performed satisfactorily also in the presence of NBI, requiring only an approximate rank determination of the NBI autocorrelation matrix.

Widely linear equalization and blind channel ...

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J. Tugnait, B. Huang, Multistep linear predictor based blind identification and equalization of multiple input multiple output channels. IEEE Trans. Signal Process. 48, 26–38 (2000) zbMATH CrossRef Google Scholar