

Blind Equalization And System Identification Batch Processing Algorithms Performance And Applicatio|cid0cs font size 12 format

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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 $u[khi]$ is transmitted at sampling rate $l_i == l/hi$ to a continuous time system via an impulse generator or a Zero Order Hold. The received output signal $y[nho]$ is sampled at the rate $10 == 1/ho$. The BSI and BCE prob ...

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Blind equalization using a predictive radial basis function neural network. Xie N(1), Leung H. ... Monte Carlo simulations show that the proposed method is effective for blind system identification. The new blind technique is then applied to two practical applications: equalization of real-life radar sea clutter collected at the east coast of Canada and deconvolution of real speech signals. In ...

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equalization and system identification. It contains material which will also interest researchers and engineers ...

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A New FIR System Identification Method 127 TABLE III Comparison of the proposed identification method (D94) and the C (Q, k) algorithm C(Q, k) D94 SNR b(i) True Estimates Estimates 00 b(1) -2.05 -2.08.50 -2.03.08 b(2) 1.00 1.00.27 1.00.13 20 b(l) - 2.05 - 2.13 0.53 - 2.07 0.18 b(2) 1.00 1.04 0.33 1.04 0.19 10 b(l) -2.05 -3.32.56 -2.43.32 b(2) 1 ...

[\(PDF\) Blind identification and equalization of two-channel ...](#)

blind identification and equalization of OFDM-based MIMO systems. Our method uses second-order cyclostationary statistics and identifies the matrix channel on a subchannel by subchannel basis, i.e., each scalar subchannel is identified individually. Important aspects of the proposed algorithm include the following. • It requires only an upper bound on the channel order. • It does not ...

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Key words: Blind system identification, blind source separation, blind deconvolution, blind equalization, SISO systems, SIMO systems, MIMO systems. 1. Introduction Blind methods of system identification aim to identify the characteristics of a system and its input by using measurements available only at the system's output. Blind methods are desired in all applications where the measurements ...

[Blind System Identification and Channel Equalization of ...](#)

"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. It contains material which will also interest researchers and engineers ...

[Blind Identification and Equalization for Multiple-Input ...](#)

Keywords— Blind equalization, parameter estimation, system identification. I. INTRODUCTION A. What Is Blind Channel Estimation and Why? There have been considerable interests from both signal processing and communications communities in the so-called "blind" problem. This is evident from titles of recent publications in both societies' journals and annual conferences. The basic blind ...

[A Novel Blind Channel Identification and Equalisation ...](#)

Blind Equalization and Identification for Differential Space-time Modulated Communication Systems By Wei Hu, M.S. The Ohio State University, 2002 Prof. Philip Schniter, Adviser The capacity of wireless communication systems over fading channels is enhanced by the use of multiple antennas at the transmitter and receiver. Differential space-time coding technique which does not require channel ...

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[Direct multiple-channel blind equalization, Circuits ...](#)

Multichannel blind system identification (MBSI) is a technique for estimating both an unknown input and unknown channel dynamics from outputs measured at different points of the system. MBSI is a powerful tool particularly for the identification and estimation of dynamical systems in which a sensor, for measuring the input, is difficult to place. MBSI algorithms, however, are not applicable ...

[GitHub - ehabets/BSIE_toolbox: Blind System Identification ...](#)

6 Applications of MIMO Blind Equalization Algorithms 335 6.1 Practionally Spaced Equalization in Digital Communications . . 335 6.2 Blind Maximum Ratio Combining 340 6.3 SIMO Blind System Identification 342 6.3.1 MIMO-MNC Equalizer-System Relation 344 6.3.2 Analysis on System Identification Based on MIMO-MNC Equalizer-System Relation 345 6.3.3 SIMO Blind System Identification Algorithm 346 6.4 ...

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RECURSIVE BLIND IDENTIFICATION AND EQUALIZATION OF FIR CHANNELS FOR CHAOTIC COMMUNICATION SYSTEMS Cabir VURAL, G ö k ç en Ç ET NEL Electrical-Electronics Engineering Department, Sakarya University 54187 Esentepe, Sakarya, Turkey phone: + (90)-02642955813, fax: + (90)-02642955601, email:cvural@sakarya.edu.tr, gctinel@sakarya.edu.tr www.sakarya.edu.tr ABSTRACT In this study, an adaptive ...

[GitHub - patrickanaylor/BSIE_toolbox: Blind System ...](#)

Blind Identification and Equalization of MC-CDMA Systems Using Higher Order Cumulants . By Mohammed Zidane, Safi Said, Ahmed Boumezzough and Miloud Frikel. Cite . BibTex; Full citation; Abstract. International audienceIn this work we propose an algorithm based on fourth order cumulants for identification of the linear system (Finite- Impulse Response (FIR)) with Non Minimum Phase (NMP) excited ...

[Blind Equalization and Identification \(Signal Processing ...](#)

Approved by: BLIND EQUALIZATION by Daniel Diguele A Thesis Submitted in PartialFulfillment ofthe Requirements for the Degree of MASTER OF SCIENCE in Electrical Engineering

[Noise robust blind system identification and subband ...](#)

Index Terms— Fading channels, filterbanks, OFDM, system identification, time-varying systems. I. INTRODUCTION BLIND identification and equalization algorithms have received considerable attention in the past few years due to their applications in fields such as mobile communica- tions, underwater acoustic communications, and exploration seismology. Especially in communications applications ...

[New fast algorithm for blind MA-system identification ...](#)

Blind equalization improves system bandwidth efficient by avoiding the use of training sequence. The linear channel distortion, known as the Inter-symbol interference (ISI), can

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severely corrupt the transmitted signal and make it difficult for the receiver to directly recover the transmitted data. Channel equalization and identification has proven to be an effective means to compensate the ...

[Blind Equalization and Identification - 1st Edition - Zhi ...](#)

Multichannel blind identification and equalization based on second-order statistics: From subspace to maximum likelihood methods," - Tong, Perreau - 1998 183 A least-squares approach to blind channel identification - Xu, Liu, et al. - 1995

[Björn Jelonnek \(Ehemaliger wissenschaftlicher Mitarbeiter ...](#)

This paper addresses the problem radio mobile channel identification and equalization by blind algorithms. For this, we have proposed two algorithms, which are compared with: cumulants based algorithms, and adaptive filter algorithms (such as the constant modulus algorithm (CMA), Fractional Space CMA (FSCMA) and Sign Kurtosis Maximization Adaptive Algorithm (SKMAA)).

[Blind Identification Using ARMA model Second Order](#)

Decision-Feedback Eigenvector Approach to blind ARMA Equalization and Identification BibT E X D. Boss, B. Jelonnek, K.-D. Kammeyer IEEE-SP/ATHOS Workshop on Higher-Order Statistics (SPW-HOS 95), pp. 320-324, Begur, Spain, 12. - 14. June 1995; 1994. A New Fast Algorithm for Blind MA-System Identification Based on Higher Order Cumulants BibT E X B. Jelonnek, K.-D. Kammeyer SPIE Advanced Signal ...

[Subspace Based Blind Identification and Equalization of ...](#)

This study addresses the blind equalisation problem in the presence of bounded noise using an optimal bounding ellipsoid algorithm. This provides an adequate blind equalisation algorithm with an accurate parameter estimation. A fundamental analysis of the involved equaliser is performed to emphasise its underlying properties. This fundamental result is corroborated by promising simulation results.

[Blind identification of autoregressive system using chaos ...](#)

Blind System Identification and Equalization Toolbox. A MATLAB toolbox containing many well-known adaptive blind system identification and equalization algorithms is now available here. A technical report of the toolbox can be found here.

[Filterbanks For Blind Channel Identification And ...](#)

BLIND EQUALIZATION FOR MODULATION IDENTIFICATION TECHNIQUES Kenta UMEBAYASHI, Ryuji KOHNO (Yokohama National University, Yokohama, Kanagawa, Japan; ume [kohno]@kohnolab.dnj.ynu.ac.jp); ABSTRACT Reentry, the concept of software defines radio (SDR), which has adaptability to variance of application, and environment has been thoroughly investigated. Specially, there have been reports about the ...

[Block-oriented Nonlinear System Identification ...](#)

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We have previously proposed a blind system identification method that exploits the underlying dynamics of non-Gaussian signals in [Li and Andersen, "Blind identification of Non-Gaussian Autoregressive Models for Efficient Analysis of Speech Signals," Proceedings of the International Conference on Acoustics, Speech and Signal Processing (ICASSP), May 2006, vol. 1, pp.

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