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Adaptive Filters: Structures, Algorithms and Applications ...

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Adaptive Filters: Structures, Algorithms, and Applications ...

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Adaptive filters : structures, algorithms, and ...

An adaptive filter is a system with a linear filter that has a transfer function controlled by variable parameters and a means to adjust those parameters according to an optimization algorithm. Because of the complexity of the optimization algorithms, almost all adaptive filters are digital filters. Adaptive filters are required for some applications because some parameters of the desired processing operation are not known in advance or are changing. The closed loop adaptive filter uses feedback

Adaptive filter - Wikipedia

The motivation is to use nonlinear adaptive filtering structures to better model some nonlinear phenomena commonly found in communications applications, such as nonlinear characteristics of power amplifier at transmitters. In particular, we introduce the Volterra series LMS and RLS algorithms, and the adaptive algorithms based on bilinear filters.

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The main classes of adaptive filtering algorithms are presented in a unified framework, using clear notations that facilitate actual implementation. The main algorithms are described in tables,...

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Many computationally efficient algorithms for adaptive filtering have been developed within the past twenty years. They are based on either a statistical approach, such as the least-mean square (LMS) algorithm, or a deterministic approach, such as the recursive least-squares (RLS) algorithm.

Adaptive Filters 6 - Uppsala University

Adaptive filtering is one of the most significant advancements in communications and signal processing with an endless list of successful applications such as echo cancellation, inverse modeling, interference canceling, and prediction. Moreover, adaptive filtering has become an intrinsic part of various systems including telecommunications, radar, sonar, video and audio signal processing.

"Efficient and Robust Adaptive Filtering Framework Based ...

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The adaptive filter contains a digital filter with adjustable coefficient (s) and the LMS algorithm to modify the value (s) of coefficient (s) for filtering each sample. The adaptive filter then produces an estimate of noise $y(n)$, which will be subtracted from the corrupted signal $d(n) = s(n) + n(n)$.

Adaptive Filter - an overview | ScienceDirect Topics

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ADAPTIVE FILTERS

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2. ADAPTIVE FILTERS An adaptive digital filter, shown in fig. 1 has an input, an output, and another special input called the "desired response". The desired response input is sometimes called the "training signal". Fig. 1. Symbolic representation of an adaptive transversal filter adapted by the LMS algorithm The adaptive filter ...

ADAPTIVE INVERSE CONTROL BASED ON NONLINEAR ADAPTIVE ...

The STOK filter combines three innovative solutions that set it apart from existing algorithms: 1) a simple least-squares minimization to recover latent and dynamic functional connectivity states through the adaptive estimation of time-varying multivariate autoregressive processes (tvMVAR), without any explicit approximation of unknown noise ...

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environments given a limited space. Based on a well-known bitmap sketch, we introduce a data structure, Stable Bloom Filter, and a novel and simple algorithm.The basic idea is as follows: since there is no way to store the whole history of the stream, SBF continuously evicts the stale elements so that SBF has

CiteSeerX — Search Results — Stable Learned Bloom Filters ...

The algorithms comprise Wiener filtering, linear prediction, and adaptive schemes such as the NLMS algorithm, affine projection, and the RLS algorithm. For applications from speech and audio processing we use noise and reverberation reduction, echo cancellation, and beamforming. Topic overview:

Adaptive Filters - Uni Kiel

An introduction to the basic principles, mathematical theory, algorithmic design, and practical implementation of linear adaptive filters. Topics include adaptive least-mean-square and recursive-least-square algorithms, adaptive lattice structures, fast finite-precision implementations, and behavioral analysis.

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