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Development and implementation of a

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Summary. The real time application of large adaptive filters (thousands of coefficients) with a small processing delay (a few milli-seconds) and good convergence behaviour, as needed in, for example, the acoustic echo canceller, is not possible with the currently available adaptive filtering algorithms.

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Real time realization concepts of large adaptive filters

CCS Concepts: · Computing

methodologies · Ray tracing; Image processing; Additional Key Words and

Phrases: temporal filtering, global illumination, reconstruction, denoising, real-time rendering ACM Reference

Format: Christoph Schied, Christoph Peters, and Carsten Dachsbacher.

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To the best of our knowledge -tolling is
the first tolling scheme that is adaptive

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Learning is making great waves to improve student experience and success. The best teachers have always adapted their teaching to the requirements of their students.

Time to Adopt Adaptive Learning - Blackboard Blog

In this paper, we present a real-time event detection and filtering system realizing the content-based adaptive streaming concept. The system achieves very good results (higher than 90% precision/recall) in the initial domains-baseball and tennis. The component for detecting important events is based on the algorithms developed in our prior

Real-Time Content-Based Adaptive Streaming of Sports Videos
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iteration pushes the concepts that are developed closer to a final product. Tests of the concepts are carried out to provide feedback on concept performance.

Real-time simulation of new HMI concepts at Scania ...

Adaptive reuse—changing the function of a building, not its form—has emerged as a major force in New York's residential real estate. By Emily Nonko
01/14/16 4:28pm The Jefferson Market ...

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The Adaptive Transaction Model is an extended transaction model with a nested structure containing optional and required subtransactions.

Adaptive Transactions (ATs) have time

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constraints to support real-time database applications. Optional subtransactions can be omitted during the execution if time does not permit.

Blind Signal Separation (BSS) deals with recovering (filtered versions of) source signals from an observed mixture thereof. The term 'blind' relates to the fact that there are no reference signals for the source signals and also that the mixing system is unknown. This book presents a new method for blind signal separation, which is developed to work on microphone signals. Acoustic Echo Cancellation (AEC) is a well-known technique to suppress the echo that a microphone picks up from a

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loudspeaker in the same room. Such acoustic feedback occurs for example in hands-free telephony and can lead to a perceived loud tone. For an application such as a voice-controlled television, a stereo AEC is required to suppress the contribution of the stereo loudspeaker setup. A generalized AEC is presented that is suited for multi-channel operation. New algorithms for Blind Signal Separation and multi-channel Acoustic Echo Cancellation are presented. A background is given in array signal processing methods, adaptive filter theory, and fast filtering in the frequency domain. The included CD-ROM can be played using any compact disc player to play the simulation results that are described in the text. When inserted into a computer, it furthermore gives Matlab implementations of the new algorithms

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along with audio data with which to experiment. This makes the book suited to researchers, engineers, and university students, who want to get acquainted with these emerging fields.

This authoritative, leading-edge resource gives you a comprehensive overview of sample rate conversion (SRC) and its applications in software configurable radios. The book helps you understand the limits of feasible systems for sample rate conversion, as well as the limits of interpolation. You get sound advice on selecting the appropriate types of SRC for specific applications, and assistance in handling the trade-off between hardware complexity and the clock rate of a system. From an introduction to software radio and a refresher on the fundamentals of sampling and

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sample rate conversion, to discussions on block signal processing and well-known and novel structures for sample rate conversion, the book offers you practical guidance that enables you to quickly find solutions for your challenging projects in the field. This first-of-its-kind reference concludes with a list of questions that - when answered - helps to design a system for sample rate conversion. Over 890 equations and 90 illustrations support key topics throughout the book.

Although adaptive filtering and adaptive array processing began with research and development efforts in the late 1950's and early 1960's, it was not until the publication of the pioneering books by Honig and Messerschmitt in 1984 and Widrow and Stearns in 1985 that the field of

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adaptive signal processing began to emerge as a distinct discipline in its own right. Since 1984 many new books have been published on adaptive signal processing, which serve to define what we will refer to throughout this book as conventional adaptive signal processing. These books deal primarily with basic architectures and algorithms for adaptive filtering and adaptive array processing, with many of them emphasizing practical applications. Most of the existing textbooks on adaptive signal processing focus on finite impulse response (FIR) filter structures that are trained with strategies based on steepest descent optimization, or more precisely, the least mean square (LMS) approximation to steepest descent. While literally hundreds of archival

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research papers have been published that deal with more advanced adaptive filtering concepts, none of the current books attempt to treat these advanced concepts in a unified framework. The goal of this new book is to present a number of important, but not so well known, topics that currently exist scattered in the research literature. The book also documents some new results that have been conceived and developed through research conducted at the University of Illinois during the past five years.

A strong reference on the problem of signal and speech enhancement, describing the newest developments in this exciting field. The general emphasis is on noise reduction, because of the large number of applications that can benefit from this

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Annotation This is a systematic introduction to MTI (moving target indication) system design for use in the fields of earth observation, surveillance and reconnaissance, with particular regard to the suppression of clutter returns. Coverage includes signal processing, clutter models, array processing theory, adapted linear arrays, non-linear antenna configurations, circular arrays, space-frequency techniques, and clutter suppression jamming conditions. This book is a follow up to the author's successful first book on STAP.

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This book constitutes the refereed proceedings of the Second International Conference on Innovative Technologies and Learning, ICITL 2019, held in Tromsø, Norway, in December 2019. The 85 full papers presented together with 4 short papers were carefully reviewed and selected from 189 submissions. The papers are organized in the following topical sections: application and design of innovative learning software; artificial intelligence and data mining in education; augmented and virtual reality in education; computational thinking in education; design and framework of learning systems; educational data analytics techniques and adaptive learning applications; evaluation, assessment and test; innovative learning in education; mobile learning; new perspectives in

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education; online course and web-based environment; pedagogies to innovative technologies; social media learning; technologies enhanced language learning; and technology and engineering education.

This text discusses various applications of space-time adaptive processing, including applications in OTH-radar, ground target tracking, STAP in real world clutter environments, jammer cancellation, superresolution, active sonar, seismics and communications. It is divided into two parts: the first dealing with the classical adaptive suppression of airborne and spacebased radar clutter, and the second comprising of miscellaneous applications in other fields such as communications, underwater sound and seismics.

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