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Read "Real-Time Adaptive Concepts in Acoustics Blind Signal Separation and Multichannel Echo Cancellation" by D.E. Schobben available from Rakuten Kobo. Blind Signal Separation (BSS) deals with recovering (filtered versions of) source signals from an observed mixture there...

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Abstract. Adaptive traffic signal control dynamically adjusts traffic signals based on prevailing traffic conditions. The acquisition and processing of real-time traffic data play a crucial role. The emerging trend of "big data", characterized as "three Vs", i.e., Volume, Velocity and Variety, potentially enables novel signal control concepts and more effective adaptive signal control implementations.

Development and implementation of a real-time big-data ...

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Real-Time Adaptive Concepts in Acoustics: Blind Signal ...

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

Real time realization concepts of large adaptive filters

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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. 2018. Gradient Estimation for Real-Time Adaptive Temporal ...

Gradient Estimation for Real-Time Adaptive Temporal Filtering

Those are just a few of the many ways a concept called adaptive learning is poised to reshape education. Through sophisticated, real-time analysis of reams of student performance data, adaptive learning technology could lead to the end of the one-size-fits-all curriculum, making personalized education available to more kids than ever before.

The Adaptive Learning Revolution | TIME.com

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To the best of our knowledge -tolling is the ?rst tolling scheme that is adaptive in real-time, able to scale to large networks, does not assume users homogeneity, and enhances system performance. Moreover, given appropriate communication capabilities -tolling is practical to implement in real-life.

Real-time Adaptive Tolling Scheme for Optimized Social ...

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Real-time Adaptive Concepts in Acoustics | SpringerLink

Adrian Powell | Jan 31, 2017. Adaptive Learning is not a new concept, but it's one that's time has come. With technology allowing the real-time personalisation of content, assessment and delivery, Adaptive 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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Next week's 2019 International Consumer Electronics Show in Las Vegas will include the unveiling of Kia's new READ (Real-time Emotion Adaptive Driving) concept, which delves into the on-board...

Kia to Unveil Real-time Emotion Adaptive Driving Concept ...

The learning algorithm used in real-time adaptive flight control systems is derived from nonlinear analysis of the flight control system and the neural network. The first step in verifying a real-time adaptive flight control system is to verify the learning algorithm by using sensitivity and noise analysis.

Verification and Validation Methodology of Real-time ...

Immersive HMI testing with real-time simulation Scania's interaction design development is often iterative. Each 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 ...

Adaptive Reuse Gives New Life to Old Buildings | Observer

The Adaptive Transaction Model is an extended transaction model with a nested structure containing optional and required subtransactions. Adaptive Transactions (ATs) have time 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 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 along

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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.

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 technology.

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.

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 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.

Network operators are faced with the challenge of maximizing the quality of voice transmissions in wireless communications without impairing speech or data transmission. This book, first published in

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2006, provides a comprehensive survey of voice quality algorithms, features, interactions and trade-offs at the device and system levels. The book elaborates on the root cause of impairments and ways for resolving them, as well as methodologies for measuring and quantifying voice quality before and after applying the remedies. A

'troubleshooting and case studies' chapter provides a useful approach to identifying and solving network impairments. Avoiding complex mathematics, the approach is based on real and sizable field experience supported by scientific and laboratory analysis. This title is suitable for practitioners in the wireless communications industry and graduate students in electrical engineering. Further resources, including a range of audio examples, are available online at www.cambridge.org/ 9781107407183.

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