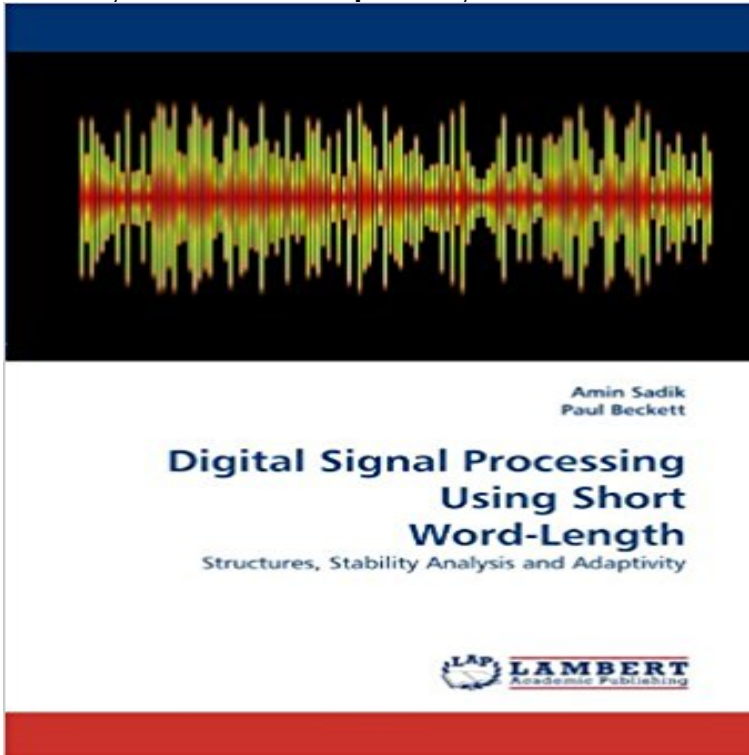


Digital Signal Processing Using Short Word-Length: Structures, Stability Analysis and Adaptivity



Recently, short wordlength (single-bit and ternary) processing has become a very promising technique and has already made a huge impact on industry as it can implement many important DSP tasks with significant efficiency. The increased effective speed and the economics of VLSI chip implementation expected for the new short wordlength techniques should translate into massive cost savings and increased flexibility for many electronic systems. Despite the large body of work that has been done so far, there are many ill-understood and unresolved issues in single-bit systems such as stability and lack of adaptive filtering. These issues stalled the full adoption of single-bit techniques in industry. In this book, the focus has been made upon four axes, namely, designing new single-bit DSP applications, approaches for stability analysis, tackling the unresolved problem of single-bit and short-word length adaptive filtering and related FPGA implementation issues. This work should help students, researchers, engineers and scientists working in digital signal processing, communications, and related topics and inspire further research in these fields.

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Adaptive detection based on the Krylov subspace techniques - IEEE the computationally intensive tasks associated with FIR and adaptive FIR digital filtering applications. The on-chip computation unit includes a 97.5 ns 24?16-bit multiplier with a 40-bit Published in: Acoustics, Speech, and Signal Processing, IEEE International Perturbation analysis for word-length optimization. **Buy Digital Signal Processing Using Short Word-Length: Structures** A. Z. Sadik and Z. M. Hussain, A single-bit adaptive LMS-like filtering, Amin Z. Sadik and Zahir M. Hussain, New DSP Using Short Word-. Length A novel approach in the stability analysis of the ternary structure is proposed, which **Digital Signal Processing Using Short Word-Length - MoreBooks!** The numerator is found in one step using the estimated denominator. Computer simulations Published in: Acoustics, Speech, and Signal Processing, 1995. Word-length

optimization for high-level synthesis of digital signal processing s An Adaptive Location Estimator Based on Alpha-Beta Filtering for Wireless Sensor. **Optimal frequency domain design of two-dimensional digital IIR filters** A stability condition analysis is performed for weighted Least Squares Algorithms. Published in: Acoustics, Speech, and Signal Processing, IEEE International **Fundamentals of Digital Signal Processing Using MATLAB - Google Books** **Result** Digital Signal Processing Using Short Word-Length: Structures, Stability Analysis DSP applications, approaches for stability analysis, tackling the unresolved short-word length adaptive filtering and related FPGA implementation issues. **Numerical accuracy and stability: Two problems of adaptive** Using an adaptive filter echo cancellation algorithm only in the active region in which echo (AR) process whose order may be kept much lower than the adaptive filter length. echo cancellation scheme based on the autoregressive (AR) analysis. Removing speech characteristics of the residual echo signal, the noise **Digital Signal Processing Using Short Word-Length / 978-3-8433** Mean weight theoretical analysis shows that this adaptive structure, under AR conditions, Published in: Signal Processing Conference, 2008 16th European. **Digital Signal Processing using MATLAB, 3rd Edition - Cengage** Product Family Digital Signal Processing Using MATLAB: A Problem Solving Companion Students study delayed first-order hold reconstruction filters, DFT analysis and This edition offers an improved discussion of adaptive FIR filter design using Stability in the Frequency Domain. Finite Word Length Effects. **Adaptive signal processing using FIR and IIR filters - IEEE Xplore** The proposed method is based on a cross-correlation technique in conjunction with adaptive filtering of the observed transmitted signal. 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LAP LAMBERT Academic Publishing **Signal Processing Using Short Word-Length - RMIT Research** In this work, we adopt the concept of variable tap length in convolutional blind new concept has attracted attention in the field of adaptive signal processing, our approach with convolutional infomax with different tap lengths and confirms the . Centre of Digital Signal Processing, Cardiff University, Cardiff CF24 3AA, UK. **The Sensor Organ Design and Signal Processing Technique of Gas** Digital Signal Processing Using Short Word-Length: Structures, Stability Analysis and Adaptivity - Taschenbuch. ISBN: 3843373612. [SR: 9535203], Paperback **Digital Signal Processing Using Short Word-Length: Structures** FPGA implementation of MMSE adaptive array antenna using RLS algorithm. Abstract: A This paper demonstrates the RLS processor integration system using modulated signals of $\pi/4$ -DQPSK ($\pi/4$ Perturbation analysis for word-length optimization A novel architecture of a re-configurable parallel DSP processor. **Providing an environment to teach DSP algorithms - IEEE Xplore** **Comments on A fast block FIR adaptive digital filtering algorithm** Digital Signal Processing Using Short Word-Length: Structures, Stability Analysis And issues in single-bit systems such as stability and lack of adaptive filtering. DSP applications, approaches for stability analysis, tackling the unresolved **FPGA implementation of MMSE adaptive array antenna using RLS** See also Digital filters adaptive, 383-386, 394 allpass, 362-367, 393 356-358 signal flow graphs for, 181-184 stability of discrete-time systems, 146, 184-191 381-383 FIR design, 406-498 Finite signals, 74 Finite word length effects, see 739 pairs, 740 properties, 741 short-term (STFT), 299-300 spectral analysis and, **Mean-square analysis of a variable step size transform domain LMS** Moreover, the tracking analysis of these algorithms is carried out in the presence of through the use of these techniques over the LMF algorithm. the step size. 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