

DSP System Design

*Complexity Reduced IIR Filter
Implementation for Practical
Applications*

Artur Krukowski and Izzet Kale

Kluwer Academic Publishers

Dsp System Design Complexity Reduced Iir Filter Implementation For Practical Applications

Arthur James Wells



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DSP System Design Artur Krukowski, Izzet Kale, 2007-05-08 DSP System Design presents the investigation of special type of IIR polyphase filter structures combined with frequency transformation techniques used for fast multi rate filtering and their application for custom fixed point implementation Detailed theoretical analysis of the polyphase IIR structure has been presented for two and three coefficients in the two path arrangement This was then generalized for arbitrary filter order and any number of paths The use of polyphase IIR structures in decimation and interpolation is being presented and performance assessed in terms of the number of calculations required for the given filter specification and the simplicity of implementation Specimen decimation filter designs to be used in Sigma Delta lowpass and bandpass A D converters are presented which prove to outperform other traditional approaches DSP System Design may be of interest to graduate students researchers and professionals circuit designers who would require fast and low complexity digital filters for both single and multi rate applications especially those with low power specification

Multirate Filtering for Digital Signal Processing: MATLAB Applications Milic, Ljiljana, 2009-01-31 This book covers basic and the advanced approaches in the design and implementation of multirate filtering Provided by publisher *Encyclopedia of Information Science and Technology*

Mehdi Khosrow-Pour, Mehdi Khosrowpour, 2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher

Algorithm Designs , Trends in Communication Technologies and Engineering Science He Huang, 2009-04-20 Comprised of research articles written for a major international conference this book covers the state of the art in communication systems and engineering science Topics covered include network management wireless networks electronics and many others

Digital Signal Processing João Marques de Carvalho, Edmar Candeia Gurjao, Luciana Ribeiro Veloso, Carlos Danilo Miranda Regis, 2018-11-09 This book covers the fundamentals of digital signal processing DSP in a concise format accessible to anyone with a technical background enabling the reader for further DSP training research and development The authors explore many subjects including discrete time digital signals and systems with emphasis on linear shift invariant LSI systems Fourier and the z transforms signal sampling and analog to digital A D conversion The book ends with examples of DSP techniques applications to practical problems from several areas

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procedures involving nonlinear constrained optimization When the number of variables and constraints increases the optimization procedure is rather sensitive to the initial value of FBs especially for cases with low reconstruction delay In this thesis a new method for designing two channel and M channel NPR finite impulse response FIR FBs is presented These FBs are designed to have an approximate cosine rolloff transition band so that the flatness conditions are automatically satisfied The design problem can be formulated as a convex optimization problem NPR FIR FBs so designed have a reasonably low reconstruction error and good frequency performance Then they are used as the initial guess for further optimization to obtain high quality PR FIR FBs A new modified model reduction technique for designing NPR IIR FBs is presented The polyphase components of these FBs are designed to have an identical denominator Hence the PR condition is considerably simplified Another advantage of the proposed method is that the stability of the IIR filters is guaranteed and the NPR IIR FBs so obtained can be used as the initial guess for designing PR IIR FBs To preserve the PR property after coefficient quantization a new factorization technique of two channel and M channel IIR FBs is proposed The proposed factorization is based on the lifting scheme and the implementation complexity is reduced by an approximate factor of two Using these results the resulting IIR FBs become PR structurally Since the factorization is highly non unique a new method is further developed to select the factorization which has a smaller dynamic range of the lifting coefficients The small dynamic range is very useful to the multiplier less realization of IIR FBs whose lifting coefficients can be implemented as canonical signed digits CSD or sum of powers of two SOPOT coefficients Because of the reduced arithmetic complexity this approach is very attractive for VLSI implementation To offer more flexibility in time frequency partitioning and better performance in applications such as signal analysis and coding a new class of NPR low delay LD FIR and IIR recombination nonuniform FBs RNFBs is proposed To suppress the spurious response possibly found in the stopband of the resulting analysis filter in the LD FIR RNFB a matching condition between the original uniform FB and the recombination FB is developed The general NPR IIR RNFB can be obtained by converting the resulting LD FIR RNFB using the modified model reduction technique mentioned earlier Since there are a large number of variables for designing general M channel IIR RNFBs it is difficult to satisfy both PR and stability constraints Therefore CMFBs are considered

Contributions to Efficient Design and Implementation of Variable Digital Filters Oksana Moryakova, 2024-08-29 Complexity reduction is one of the main issues of digital signal processing DSP algorithms especially in communication systems where each new generation brings new requirements towards increasing data rates and improved accuracy positioning leading to the growth of power consumption and chip area To meet these requirements and at the same time find a trade off between high performance and low implementation cost more sophisticated DSP algorithms need to be developed Recent communication standards require flexible adaptive systems capable of real time frequency domain tuning Variable digital filters VDFs address these needs by enabling on the fly frequency response adjustments without the need for online filter design The key feature of VDFs is that

they require only an adjustment of one or a few parameters to change their characteristics without the need for extensive additional computations. Most VDF coefficients remain fixed after the initial design allowing for efficient hardware implementation. This makes VDFs essential for modern adaptive communication technologies. This thesis primarily focuses on the design and low complexity implementation techniques of VDFs and presents three main contributions. Firstly it proposes three VDF realizations for simultaneous lowpass filtering and equalization using polynomial channel models with systematic design procedures based on minimax optimization for all the proposed structures. In addition a fast design method for the VDFs with several variable parameters which can substantially decrease the design time is presented. Secondly it introduces frequency domain implementations of VDFs using the overlap save technique. Based on the assumption that these filters have been designed using a common design approach based on optimizing the impulse response coefficients the filter DFT coefficients are proposed to be implemented as fixed hybrid or variable weights. Lastly the thesis presents an efficient design approach for a variable bandwidth digital filter implemented in the frequency domain using the overlap save method. The proposed approach is based on a hybrid of frequency sampling and optimization allowing for direct optimization of the DFT coefficients considering the filter frequency domain implementation and thereby noticeably reducing the cost of implementation and an online update of the DFT filter coefficients when the bandwidth is varied.

Reduktion av komplexitet i en av huvudfrågorna för digital signalbehandling DSP-algoritmer är skilda i kommunikationssystem där varje ny generation stiller nya krav på att kunna hantera hastigheter och förbättra noggrannhet i positionering vilket leder till en ökning av strömförbrukningen och kretsytan. För att möta dessa krav och samtidigt hitta en avvägning mellan hög prestanda och låg implementeringskostnad behöver mer sofistikerade DSP-algoritmer utvecklas. Senaste kommunikationsstandarder kräver flexibla adaptiva system som kan frekvensdominans i realtid. Variabla digitala filter VDF tillgodoser dessa behov genom att möjliggöra omkoppling av frekvenssvarsjusteringar utan behov av onlinefilterdesign. Nyckelegenskapen hos VDF är att de bara kräver en justering av en eller ett fåtal parametrar för att ändra deras egenskaper utan behov av omfattande ytterligare beräkningar. De flesta VDF-koefficienter förblir fixerade efter den ursprungliga designen vilket möjliggör effektiv hardwareimplementering. Detta gör VDFer viktiga för modern adaptiv kommunikationsteknik. Den här avhandlingen fokuserar främst på design och implementeringstekniker med låg komplexitet för VDFer och presenterar tre huvudsakliga bidrag. För det första presenteras de tre VDF-realiseringarna för samtidig lågpassfiltrering och utjämning med användning av polynomkanalmodeller med systematiska designprocedurer baserade på minimax-optimering för alla föreslagna strukturer. Dessutom presenteras en snabb designmetod för VDF-erna med flera variabla parametrar som avsevärt kan minska designtiden. För det andra introduceras den frekvensdominanta implementeringen av VDFer med overlappsparateknik. Baserat på antagandet att dessa filter har utformats med användning av en gemensam designmetod baserad på optimering av impulssvarskoefficienterna föreslås filtrets DFT-koefficienter implementeras som fasta hybrida eller variabla vikter. Slutligen presenterar avhandlingen en effektiv designansats för ett

digitalt filter med variabel bandbredd implementerat i frekvensdomänen med användning av overlappningssparametoden. Det föreslagna tillvägagångssättet är baserat på en hybrid av frekvenssampling och optimering vilket möjliggör direkt optimering av DFT-koefficienterna med tanke på implementeringen av filterfrekvensdomänen och därigenom möjligt minska kostnaden för implementering och en onlineuppdatering av DFT filterkoefficienterna när bandbredden är varierande.

The Enigmatic Realm of **Dsp System Design Complexity Reduced Iir Filter Implementation For Practical Applications**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Dsp System Design Complexity Reduced Iir Filter Implementation For Practical Applications** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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