

# Special Issue on Mathematics and Digital Signal Processing

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Modern computer technology has opened up new opportunities for the development of digital signal processing methods. The applications of digital signal processing have expanded significantly and today include audio and speech processing; sonar, radar, and other sensor array processing; spectral density estimation; statistical signal processing; digital image processing; signal processing for telecommunications; control systems; and medical image analysis, among others.

This Special Issue has collected and now presents breakthrough research on the mathematical foundations and important applications of digital signal processing. Among the mathematical approaches to the development of new methods and tools for digital signal processing, special attention was paid to algebraic, number-theoretic, and statistical approaches. Among the applications of digital signal processing, the most relevant in this Issue were medicine, hydroacoustics, speech processing, and industrial production.

A total of ten research papers in various fields of mathematics and digital signal processing are presented in this Special Issue. Kaplun et al. [1] introduced a new approach for improving the calculation accuracy of digital filters based on finite field algebra. Pyko et al. [2] reported new approaches to digital signal processing for blood pressure monitoring. Chervyakov et al. [3] developed a new division algorithm in the residue number system, which is a promising alternative to the binary representation of information in digital signal processing. Lim [4] proposed a new sparse channel estimator, which is robust in impulsive noise environments. Another article by Chervyakov et al. [5] is devoted to the analysis of the quantization noise in discrete wavelet transform filters for three-dimensional medical imaging and the development of practical recommendations for the implementation of such systems in practice. A second article by Kaplun et al. [6] is devoted to the classification of hydroacoustic signals based on harmonic wavelets and a deep learning artificial intelligence system. The third article by Kaplun et al. [7] proposes an automated orientation algorithm based on the adjustment of the three-dimensional model virtual anatomical axis of the tibia, along with the vertical axis of the rectangular coordinates in three-dimensional space. Dehghan Firoozabadi et al. [8] reported the multiresolution speech enhancement based on a circular nested microphone array in combination with sub-band affine projection algorithm. Klishkovskaia et al. [9] wrote about the development of classification algorithms for the detection of postures using non-marker-based motion capture systems. Yang et al. [10] combined a deep learning feature extraction method and an extreme learning machine classification method to create an extreme depth learning machine model for detecting wood image defects.

Although submissions for this Special Issue have been closed, more in-depth research in mathematics and digital signal processing continues to address the challenges we face today, such as improving the performance and quality of digital signal processing systems, developing artificial intelligence methods for digital signal processing, and developing fundamentally new software and hardware solutions for solving applied problems of digital signal processing.

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# Mathematics In Signal Processing Iv

**SB Merriam**



## **Mathematics In Signal Processing Iv:**

Mathematics in Signal Processing IV J. G. McWhirter, I. K. Proudler, 1998      *Mathematics in Signal Processing 4* J. G. McWhirter, I. K. Proudler, 1998 This volume provides an overview of the wide range of mathematical topics in signal processing The focus is on alternative algebras for signal processing particularly multilinear and geometric algebra and Grbner bases Other topics include array processing and digital communications wavelets nonlinear signal processing Pad approximation convex optimization and generalized eigenvalue decomposition Blending theory and practice the volume will appeal to a wide range of engineers and mathematicians      **Adaptive Processing of Brain Signals** Saeid Sanei, 2013-05-28 In this book the field of adaptive learning and processing is extended to arguably one of its most important contexts which is the understanding and analysis of brain signals No attempt is made to comment on physiological aspects of brain activity instead signal processing methods are developed and used to assist clinical findings Recent developments in detection estimation and separation of diagnostic cues from different modality neuroimaging systems are discussed These include constrained nonlinear signal processing techniques which incorporate sparsity nonstationarity multimodal data and multiway techniques Key features Covers advanced and adaptive signal processing techniques for the processing of electroencephalography EEG and magneto encephalography MEG signals and their correlation to the corresponding functional magnetic resonance imaging fMRI Provides advanced tools for the detection monitoring separation localising and understanding of functional anatomical and physiological abnormalities of the brain Puts a major emphasis on brain dynamics and how this can be evaluated for the assessment of brain activity in various states such as for brain computer interfacing emotions and mental fatigue analysis Focuses on multimodal and multiway adaptive processing of brain signals the new direction of brain signal research      The Princeton Companion to Applied Mathematics Nicholas J. Higham, Mark R. Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared Tanner, 2015-09-15 The must have compendium on applied mathematics This is the most authoritative and accessible single volume reference book on applied mathematics Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses explains key concepts describes important equations laws and functions looks at exciting areas of research covers modeling and simulation explores areas of application and more Modeled on the popular Princeton Companion to Mathematics this volume is an indispensable resource for undergraduate and graduate students researchers and practitioners in other disciplines seeking a user friendly reference book on applied mathematics Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts methods equations and applications Introduces the language of applied mathematics and the goals of applied mathematical research Gives a wide range of examples of mathematical modeling Covers continuum mechanics dynamical systems numerical analysis discrete and

combinatorial mathematics mathematical physics and much more Explores the connections between applied mathematics and other disciplines Includes suggestions for further reading cross references and a comprehensive index **Signal Processing IV** ,1988 **Applications in Time-Frequency Signal Processing** Antonia Papandreou-Suppappola,2018-10-03 Because most real world signals including speech sonar communication and biological signals are non stationary traditional signal analysis tools such as Fourier transforms are of limited use because they do not provide easily accessible information about the localization of a given frequency component A more suitable approach for those studying non stationary signals is the use of time frequency representations that are functions of both time and frequency Applications in Time Frequency Signal Processing investigates the use of various time frequency representations such as the Wigner distribution and the spectrogram in diverse application areas Other books tend to focus on theoretical development This book differs by highlighting particular applications of time frequency representations and demonstrating how to use them It also provides pseudo code of the computational algorithms for these representations so that you can apply them to your own specific problems Written by leaders in the field this book offers the opportunity to learn from experts Time Frequency Representation TFR algorithms are simplified enabling you to understand the complex theories behind TFRs and easily implement them The numerous examples and figures review of concepts and extensive references allow for easy learning and application of the various time frequency representations **High-Performance VLSI Signal Processing Innovative Architectures and Algorithms, Systems Design and Applications** K. J. Ray Liu,Kung Yao,1998 Electrical Engineering Signal Processing High Performance VLSI Signal Processing Innovative Architectures and Algorithms Volume 2 Systems Design And Applications The second volume in a two volume set High Performance VLSI Signal Processing Innovative Architectures and Algorithms brings together the most innovative papers in the field focused introductory material and extensive references The editors present timely coverage of the latest design tools design environments and implementations of VLSI signal processing systems These volumes will serve as vital resources for engineers who want a comprehensive knowledge of the extremely interdisciplinary field of high performance VLSI processing The editors provide a practical understanding of the merits of total system design through an insightful synergistic presentation of methodology architecture and infrastructure Each volume features Major papers that span the wide range of research areas in the field Chapter introductions including historical perspectives Numerous applications oriented design examples Coverage of current and future technological trends **Mathematics Today** ,1998 *The Cumulative Book Index* ,1999 **Signal Processing IV** Jean-Louis Lacoume,1988 *QRD-RLS Adaptive Filtering* JOSE APOLINARIO JR,2009-04-05 I feel very honoured to have been asked to write a brief foreword for this book on QRD RLS Adaptive Filtering asubjectwhichhas been close to my heart for many years The book is well written and very timely I look forward personally to seeing it in print The editor is to be congratulated on assembling such a highly esteemed team of contributing authors able to span the broad range of topics and

concepts which underpin this subject In many respects and for reasons well expounded by the authors the LMS algorithm has reigned supreme since its inception as the algorithm of choice for practical applications of adaptive filtering However as a result of the relentless advances in electronic technology the demand for stable and efficient RLS algorithms is growing rapidly not just because the higher computational load is no longer such a serious barrier but also because the technological pull has grown much stronger in the modern commercial world of 3G mobile communications cognitive radio high speed imagery and so on

**Applied mechanics reviews** ,1948      SPAWC'99 IEEE Signal Processing Society,1999 Aimed at personal communication engineers the subjects covered in these proceedings include CDMA equalization MMSE synchronization multi carrier systems array processing channel and sequence estimation and blind chip and symbol rate CDMA receivers      Index of Conference Proceedings British Library. Document Supply Centre,2000      **American Book Publishing Record Cumulative 1998** R R Bowker Publishing,1999-03      *Subject Catalog* Library of Congress,1981

**Trends & Perspectives in Signal Processing** ,1981      Mathematical Reviews ,2006      Bibliographic Guide to Technology New York Public Library. Research Libraries,1978      *Conference Digest* International Conference on Mathematics in Signal Processing (6, 2004, Cirencester),2004

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