
Adaptive Fractional Fourier Domain Filtering In Active

Smart Intelligent Computing and Communication Technology
Digital Signal Processing with Matlab Examples, Volume 1
Fractional Fourier Transform Techniques for Speech Enhancement
Multiscale Transforms with Application to Image Processing
Time-frequency Transforms for Radar Imaging and Signal Analysis
Time-Frequency Signal Analysis and Processing
Focus on Multidimensional Microscopy
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Noise Control, Reduction and Cancellation Solutions in Engineering
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Fractional Processes and Fractional-Order Signal Processing
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Optical Pattern Recognition
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Chinese Journal of Electronics
Encyclopedia of Optical Engineering: Abe-Las, pages 1-1024
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Smart Computing Techniques and Applications
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Intelligence Science and Big Data Engineering, Visual Data Engineering
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The Proceedings of the Second International Conference on Communications, Signal Processing, and Systems
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Advances in Imaging and Electron Physics
Nanoelectronics, Circuits and Communication Systems
Fractional Order Signal Processing

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DIAMOND BOND

Smart Intelligent Computing and Communication Technology
Springer

A comprehensive review of optical pattern recognition techniques and implementations, for graduate students and researchers.

Digital Signal Processing with Matlab Examples, Volume 1
ScholarlyEditions

"Digital signal transforms are of a fundamental value in digital signal and image processing. Their role is manifold. Transforms selected appropriately enable substantial compressing signals and images for storage and transmission. No signal recovery, image reconstruction and restoration task can be efficiently

solved without using digital signal transforms. Transforms are successfully used for logic design and digital data encryption. Fast transforms are the main tools for acceleration of computations in digital signal and image processing. The volume collects in one book most recent developments in the theory and practice of the design and usage of transforms in digital signal and image processing. It emerged from the series of reports published by Tampere International Centre for Signal Processing, Tampere University of Technology. For the volume, all contributions are appropriately updated to represent the state of the art in the field and to cover the most recent developments in different aspects of the theory and applications of transforms. The book consists of two parts that represent two major directions in the field: development of new transforms and development of transform based signal and image processing

algorithms. The first part contains four chapters devoted to recent advances in transforms for image compression and switching and logic design and to new fast transforms for digital holography and tomography. In the second part, advanced transform based signal and image algorithms are considered: signal and image local adaptive restoration methods and two complementing families of signal and image re-sampling algorithms, fast transform based discrete sinc-interpolation and spline theory based ones."--Publisher.

Fractional Fourier Transform Techniques for Speech Enhancement Springer

The book tries to briefly introduce the diverse literatures in the field of fractional order signal processing which is becoming an emerging topic among an interdisciplinary community of researchers. This book is aimed at postgraduate and beginning level research scholars who would like to work in the field of Fractional Order Signal processing (FOSP). The readers should have preliminary knowledge about basic signal processing techniques. Prerequisite knowledge of fractional calculus is not essential and is explicated at relevant places in connection to the appropriate signal processing topics. Basic signal processing techniques like filtering, estimation, system identification, etc. in the light of fractional order calculus are presented along with relevant application areas. The readers can easily extend these concepts to varied disciplines like image or speech processing, pattern recognition, time series forecasting, financial data analysis and modeling, traffic modeling in communication channels, optics, biomedical signal processing, electrochemical applications and many more. Adequate references are provided

in each category so that the researchers can delve deeper into each area and broaden their horizon of understanding. Available MATLAB tools to simulate FOSP theories are also introduced so that the readers can apply the theoretical concepts right-away and gain practical insight in the specific domain.

Multiscale Transforms with Application to Image Processing Cambridge University Press

This book constitutes the refereed proceedings of the 11th China Conference on Wireless Sensor Networks, CWSN 2017, held in Tianjin, China, in October 2017. The 28 revised full papers were carefully reviewed and selected from 213 submissions. The papers are organized in topical sections on wireless sensor networks; energy efficiency and harvesting; data fusion; mobile computing and social services.

Time-frequency Transforms for Radar Imaging and Signal Analysis Springer

This book provides an introduction to image processing, an overview of the transforms which are most widely used in the field of image processing, and an introduction to the application of multiscale transforms in image processing. The book is divided into three parts, with the first part offering the reader a basic introduction to image processing. The second part of the book starts with a chapter on Fourier analysis and Fourier transforms, wavelet analysis, and ends with a chapter on new multiscale transforms. The final part of the book deals with all of the most important applications of multiscale transforms in image processing. The chapters consist of both tutorial and highly advanced material, and as such the book is intended to be a reference text for graduate students and researchers to obtain

state-of-the-art knowledge on specific applications. The technique of solving problems in the transform domain is common in applied mathematics and widely used in research and industry, but is a somewhat neglected subject within the undergraduate curriculum. It is hoped that faculty can use this book to create a course that can be offered early in the curriculum and fill this void. Also, the book is intended to be used as a reference manual for scientists who are engaged in image processing research, developers of image processing hardware and software systems, and practising engineers and scientists who use image processing as a tool in their applications.

Time-Frequency Signal Analysis and Processing Allied Publishers

This book presents best selected papers presented at the 4th International Conference on Smart Computing and Informatics (SCI 2020), held at the Department of Computer Science and Engineering, Vasavi College of Engineering (Autonomous), Hyderabad, Telangana, India. It presents advanced and multi-disciplinary research towards the design of smart computing and informatics. The theme is on a broader front which focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solutions to varied problems in society, environment and industries. The scope is also extended towards the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in various disciplines of science, technology and health care.

Focus on Multidimensional Microscopy Springer Nature
The Proceedings of The Second International Conference on

Communications, Signal Processing, and Systems provides the state-of-art developments of Communications, Signal Processing, and Systems. The conference covered such topics as wireless communications, networks, systems, signal processing for communications. This book is a collection of contributions coming out of The Second International Conference on Communications, Signal Processing, and Systems (CSPS) held September 2013 in Tianjin, China.

Advances in Machinery, Materials Science and Engineering Application Walter de Gruyter GmbH & Co KG
Noise Control, Reduction and Cancellation Solutions in EngineeringIntechOpen
Noise Control, Reduction and Cancellation Solutions in Engineering Springer

This book constitutes the proceedings of the 19th Chinese Intelligent Systems Conference, CISC 2023, which was held during October 14–15, 2023, in Ningbo, Zhejiang, China. The book focuses on new theoretical results and techniques in the field of intelligent systems and control. This is achieved by providing in-depth studies of a number of important topics such as multi-agent systems, complex networks, intelligent robots, complex systems theory and swarm behavior, event-driven and data-driven control, robust and adaptive control, big data and brain science, process control, intelligent sensors and detection technology, deep learning and learning control, navigation and control of aerial vehicles, and so on. The book is particularly suitable for readers interested in learning intelligent systems and control and artificial intelligence. The book can benefit researchers, engineers and graduate students.

Noise Control, Reduction and Cancellation Solutions in Engineering John Wiley & Sons

This book explains speech enhancement in the Fractional Fourier Transform (FRFT) domain and investigates the use of different FRFT algorithms in both single channel and multi-channel enhancement systems, which has proven to be an ideal time frequency analysis tool in many speech signal processing applications. The authors discuss the complexities involved in the highly non-stationary signal processing and the concepts of FRFT for speech enhancement applications. The book explains the fundamentals of FRFT as well as its implementation in speech enhancement. Theories of different FRFT methods are also discussed. The book lets readers understand the new fractional domains to prepare them to develop new algorithms. A comprehensive literature survey regarding the topic is also made available to the reader.

Issues in Electronic Circuits, Devices, and Materials: 2011 Edition Springer Nature

A comprehensive reference of cutting-edge advanced techniques for quantitative image processing and analysis. Medical diagnostics and intervention, and biomedical research rely progressively on imaging techniques, namely, the ability to capture, store, analyze, and display images at the organ, tissue, cellular, and molecular level. These tasks are supported by increasingly powerful computer methods to process and analyze images. This text serves as an authoritative resource and self-study guide explaining sophisticated techniques of quantitative image analysis, with a focus on biomedical applications. It offers both theory and practical examples for immediate application of

the topics as well as for in-depth study. Advanced Biomedical Image Analysis presents methods in the four major areas of image processing: image enhancement and restoration, image segmentation, image quantification and classification, and image visualization. In each instance, the theory, mathematical foundation, and basic description of an image processing operator is provided, as well as a discussion of performance features, advantages, and limitations. Key algorithms are provided in pseudo-code to help with implementation, and biomedical examples are included in each chapter. Image registration, storage, transport, and compression are also covered, and there is a review of image analysis and visualization software. The accompanying live DVD contains a selection of image analysis software, and it provides most of the algorithms from the book so readers can immediately put their new knowledge to use. Members of the academic community involved in image-related research as well as members of the professional R&D sector will rely on this volume. It is also well suited as a textbook for graduate-level image processing classes in the computer science and engineering fields.

Proceedings of the national conference on advances in contemporary physics and energy Academic Press

The book is a collection of best papers presented at the International Conference on Intelligent Computing and Applications (ICICA 2018), held at Velammal Engineering College, Chennai, India on 2-3 February 2018. Presenting original work in the field of computational intelligence and power and computing technology, it focuses on soft computing applications in power systems; power-system modeling and control; FACTS devices -

applications in power systems; power-system stability and switchgear and protection; power quality issues and solutions; smart grids; green and renewable energy technologies; optimization techniques in electrical systems; power electronics controllers for power systems; power converters and modeling; high voltage engineering; diagnosis and sensing systems; and robotics.

Advances in Intelligent Computing and Communication Academic Press

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Fractional Processes and Fractional-Order Signal Processing Springer

Updating the original, *Transforms and Applications Handbook*, Third Edition solidifies its place as the complete resource on those mathematical transforms most frequently used by engineers, scientists, and mathematicians. Highlighting the use of transforms and their properties, this latest edition of the bestseller begins with a solid introduction to signals and systems, including properties of the delta function and some classical orthogonal functions. It then goes on to detail different transforms, including lapped, Mellin, wavelet, and Hartley varieties. Written by top experts, each chapter provides numerous examples and applications that clearly demonstrate the unique purpose and properties of each type. The material is presented in a way that makes it easy for readers from different backgrounds to familiarize themselves with the wide range of transform applications. Revisiting transforms previously covered, this book adds information on other important ones, including:

Finite Hankel, Legendre, Jacobi, Gengenbauer, Laguerre, and Hermite Fraction Fourier Zak Continuous and discrete Chirp-Fourier Multidimensional discrete unitary Hilbert-Huang Most comparable books cover only a few of the transforms addressed here, making this text by far the most useful for anyone involved in signal processing—including electrical and communication engineers, mathematicians, and any other scientist working in this field.

ICASSP-95 Springer Nature

This resource introduces a new image formation algorithm based on time-frequency-transforms, showing its advantage over the more conventional Fourier-based image formation. Referenced with over 170 equations and 80 illustrations, the book presents new algorithms that help improve the result of radar imaging and signal processing.

Communications, Signal Processing, and Systems Springer Nature

This book features high-quality research papers presented at the 2nd International Conference on Intelligent Computing and Advances in Communication (ICAC 2019), held at Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India, in November 2019. Covering a wide variety of topics, including management of clean and smart energy systems and environmental challenges, it is a valuable resource for researchers and practicing engineers working in various fields of renewable energy generation, and clean and smart energy management.

Optical Pattern Recognition Springer Nature
In Indian context.

Proceedings of International Conference on Computational Intelligence and Data Engineering IntechOpen

Keeping up to date with advances in material science and applied engineering is essential for those working in the field if they are to understand and tackle the challenges they face in an efficient manner and adopt the best and most appropriate solutions available. This book presents the proceedings of MMSE 2022, the 8th International Conference on Advances in Machinery, Materials Science and Engineering Application, held as a hybrid event (both in-person and online) in Wuhan, China, on 23 and 24 July 2022. For the past 12 years, the MMSE international conferences have collated recent advances and experiences, identified emerging trends in technology and encouraged lively debate between students, specialists, engineers and associations from around the world, all of which have had a positive impact in helping to address the world's engineering challenges. The book contains 121 papers, selected by means of a rigorous international peer-review process by editors and reviewers from the 215 submissions received. Topics covered include the latest advancements in applied mechanics, intelligent manufacturing technology, mechanical and electromechanical engineering, heat transfer, combustion, advanced materials sciences, industrial applications, applied mathematics, simulation and interdisciplinary engineering. Presenting a wealth of exciting ideas for solving real problems in the real world and opening novel research directions, the book will be of interest to materials specialists and engineers from both academia and industry everywhere.

Chinese Journal of Electronics Noise Control, Reduction and

Cancellation Solutions in Engineering

The book presents high-quality research work on cutting-edge technologies and the most-happening areas of computational intelligence and data engineering. It includes selected papers from the International Conference on Computational Intelligence and Data Engineering (ICCIDE 2018). The conference was conceived as a forum for researchers from academia and industry to present and share ideas and results and allow them to develop a comprehensive understanding of the challenges of technological advancements from different viewpoints. As such, this book helps foster strong links between academia and industry. It covers various topics, including collective intelligence, intelligent transportation systems, fuzzy systems, Bayesian network, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, and speech processing.

Artech House

Noise has various effects on comfort, performance, and human health. For this reason, noise control plays an increasingly central role in the development of modern industrial and engineering applications. Nowadays, the noise control problem excites and attracts the attention of a great number of scientists in different disciplines. Indeed, noise control has a wide variety of applications in manufacturing, industrial operations, and consumer products. The main purpose of this book, organized in 13 chapters, is to present a comprehensive overview of recent advances in noise control and its applications in different research fields. The authors provide a range of practical

applications of current and past noise control strategies in different real engineering problems. It is well addressed to researchers and engineers who have specific knowledge in

acoustic problems. I would like to thank all the authors who accepted my invitation and agreed to share their work and experiences.

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