

# Discrete Fractional Calculus

Applications in Control and Image Processing

Series in Computer Vision - Vol. 4



**Piotr Ostalczyk**

*Editor*

# Discrete Fractional Calculus Applications In Control And Image Processing Series In Computer Vision

**Chi Hau Chen**



## **Discrete Fractional Calculus Applications In Control And Image Processing Series In Computer Vision:**

**Discrete Fractional Calculus: Applications In Control And Image Processing** Piotr Ostalczyk, 2015-11-26 The main subject of the monograph is the fractional calculus in the discrete version The volume is divided into three main parts Part one contains a theoretical introduction to the classical and fractional order discrete calculus where the fundamental role is played by the backward difference and sum In the second part selected applications of the discrete fractional calculus in the discrete system control theory are presented In the discrete system identification analysis and synthesis one can consider integer or fractional models based on the fractional order difference equations The third part of the book is devoted to digital image processing      **Computational Intelligence And Image Processing In Medical Applications** Chi Hau Chen, 2022-05-30 In recent years there have been significant progress in computational intelligence and image processing with machine learning and deep learning as important components of modern artificial intelligence All these progresses face challenges in dealing with Covid 19 pandemic for detection and treatment This comprehensive compendium provides not only updated advances of computational intelligence and image processing in the detection and treatment of Covid 19 but also other medical applications such as in cancer detection and cardiovascular diseases etc More traditional approaches such as 2D segmentation and 3D reconstruction are included The useful reference text is an updated version of the edited title Computer Vision in Medical Imaging World Scientific 2014 and its companion volume Frontiers of Medical Imaging World Scientific 2015 The book is written for engineers scientists and the medical community to meet the increased challenges in medical applications      **Fractional Dynamical Systems: Methods, Algorithms and Applications** Piotr Kulczycki, Józef Korbicz, Janusz Kacprzyk, 2022-01-04 This book presents a wide and comprehensive spectrum of issues and problems related to fractional order dynamical systems It is meant to be a full fledge comprehensive presentation of many aspects related to the broadly perceived fractional order dynamical systems which constitute an extension of the traditional integer order type descriptions This implies far reaching consequences both analytic and algorithmic because in general properties of the traditional integer order systems cannot be directly extended by a straightforward generalization to fractional order systems modeled by fractional order differential equations involving derivatives of a non integer order This can be useful for describing and analyzing for instance anomalies in the behavior of various systems chaotic behavior etc The book contains both analytic contributions with state of the art and theoretical foundations algorithmic implementation of tools and techniques and finally some examples of relevant and successful practical applications      *Recent Developments in Fractional Calculus: Theory, Applications, and Numerical Simulations* Lakhveer Kaur, Pushpendra Kumar, 2025-05-30 This book discusses recent developments in fractional calculus and fractional differential equations in a very elaborative manner and is of interest to research scholars academicians and scientists who want to enhance the knowledge in the context of new insights and mathematical ideas in fractional calculus and its emerging applications in various fields It focuses on

strengthening the existing results along with identifying the practical challenges encountered The purpose of this collection is to provide comprehension of articles that reflect recent mathematical results as well as some results in applied sciences untouched by the tools and techniques of fractional calculus along with their modelling and computation having applications in diverse arenas *Fractional Calculus in Medical and Health Science* Devendra Kumar,Jagdev Singh,2020-07-09 This book

covers applications of fractional calculus used for medical and health science It offers a collection of research articles built into chapters on classical and modern dynamical systems formulated by fractional differential equations describing human diseases and how to control them The mathematical results included in the book will be helpful to mathematicians and doctors by enabling them to explain real life problems accurately The book will also offer case studies of real life situations with an emphasis on describing the mathematical results and showing how to apply the results to medical and health science and at the same time highlighting modeling strategies The book will be useful to graduate level students educators and researchers interested in mathematics and medical science *Non-Integer Order Calculus and its Applications* Piotr

Ostalczyk,Dominik Sankowski,Jacek Nowakowski,2018-03-22 This book focuses on fractional calculus presenting novel advances in both the theory and applications of non integer order systems At the end of the twentieth century it was predicted that it would be the calculus of the twenty first century and that prophecy is confirmed year after year Now this mathematical tool is successfully used in a variety of research areas like engineering e g electrical mechanical chemical dynamical systems modeling analysis and synthesis e g technical biological economical as well as in multidisciplinary areas e g biochemistry electrochemistry As well as the mathematical foundations the book concentrates on the technical applications of continuous time and discrete time fractional calculus investigating the identification analysis and control of electrical circuits and dynamical systems It also presents the latest results Although some scientific centers and scientists are skeptical and actively criticize the applicability of fractional calculus it is worth breaking through the scientific and technological walls Because the fractional community is growing rapidly there is a pressing need for the exchange of scientific results The book includes papers presented at the 9th International Conference on Non integer Order Calculus and Its Applications and is divided into three parts Mathematical foundations Fractional systems analysis and synthesis System modeling Seven papers discuss the mathematical foundations twelve papers address fractional order analysis and synthesis and three focus on dynamical system modeling by the fractional order differential and difference equations It is a useful resource for fractional calculus scientific community **Pattern Recognition And Computer Vision In The New Ai Era** Chi Hau

Chen,2025-07-15 While traditional approaches in pattern recognition and computer vision have continued to evolve along with the advances of artificial intelligence AI this unique compendium presents recent research activities in deep learning graph based and semantic based approaches and applications The book covers the most recent advances as well as traditional topics in pattern recognition and computer vision in this new AI area in the first part The second part presents

emerging applications of deep learning and AI This useful reference text benefits academics professionals researchers and graduate students in pattern recognition computer vision image segmentation and artificial intelligence *Computer Vision And Robotics In Perioperative Process* Yi Xu,Huan Tan,Ying Mao,Lynn-ann Derose,2018-04-10 This invaluable compendium highlights the challenges of perioperative process in hospitals today It delves into the development of a multi agent robotic system where a dirty side robot that sorts instruments returned from a surgical room into different containers for easy scrubbing a Traybot that navigates the environment and transports the instrument containers to different stations a clean side robot that picks up instruments and places them in surgical kits and an orchestration software architecture that manages the cooperation between different robots The book discusses the technical details of all the components from system architecture to the details of the end effector design Readers will gain significant knowledge on how such a system was put together Related Link s *Control Based on PID Framework* Wei Wang,2021-06-16 With numerous new opportunities and challenges emerging from the topic of the cognition and control of complex systems the methods related to PID control or control based on a PID framework will continue to grow and expand This book covers some of the recent results that include improvements to the PID controller Some examples of these improvements are as follows The novelty method of the variable fractional order PID controller The optimization of PID controller such as the hybrid LQR PID controller by using genetic algorithm GA with the application for the control of helicopter systems The optimized tuning approach of PID controller with disturbance rejection A controller adjustment method based on the internal product of PID terms The PI PD controller incorporated with the model based feedforward control FF and the disturbance compensator Kz which is used for the control of magnetic levitation systems The proper control with PID framework used to improve the cognition or identification for complex systems *Advanced Mathematical Methods* Francesco Mainardi,Andrea Giusti,2020-02-05 The many technical and computational problems that appear to be constantly emerging in various branches of physics and engineering beg for a more detailed understanding of the fundamental mathematics that serves as the cornerstone of our way of understanding natural phenomena The purpose of this Special Issue was to establish a brief collection of carefully selected articles authored by promising young scientists and the world s leading experts in pure and applied mathematics highlighting the state of the art of the various research lines focusing on the study of analytical and numerical mathematical methods for pure and applied sciences **Automation 2018** Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,2018-03-07 This book consists of papers presented at Automation 2018 an international conference held in Warsaw from March 21 to 23 2018 It discusses the radical technological changes occurring due to the INDUSTRY 4 0 with a focus on offering a better understanding of the Fourth Industrial Revolution Each chapter presents a detailed analysis of interdisciplinary knowledge numerical modeling and simulation as well as the application of cyber physical systems where information technology and physical devices create synergic systems leading to unprecedented

efficiency The theoretical results practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial problems **New Trends in**

**Nonlinear Dynamics** Walter Lacarbonara,Balakumar Balachandran,Jun Ma,J. A. Tenreiro Machado,Gabor Stepan,2020-01-27 This third of three volumes from the inaugural NODYCON held at the University of Rome in February of 2019 presents papers devoted to New Trends in Nonlinear Dynamics The collection features both well established streams of research as well as novel areas and emerging fields of investigation Topics in Volume III include NEMS MEMS and nanomaterials multi sensors actuators exploiting nonlinear working principles adaptive multifunctional and meta material structures nanocomposite structures e g carbon nanotube polymer composites composites with functionalized nanoparticles 0D 1D 2D 3D nanostructures biomechanics applications DNA modeling walking dynamics heart dynamics neurodynamics capsule robots jellyfish like robots nanorobots cryptography based on chaotic maps ecosystem dynamics social media dynamics user behavior dynamics in multi messages social hotspots prediction models financial engineering complexity in engineering and network dynamics multi agent systems leader follower dynamics swarm dynamics biological networks dynamics **Theory and Applications of Non-integer Order Systems** Artur Babiarz,Adam Czornik,Jerzy Klamka,Michał

Niezabitowski,2016-09-15 This book collects papers from the 8th Conference on Non Integer Order Calculus and Its Applications that have been held on September 20 21 2016 in Zakopane Poland The preceding two conferences were held in Szczecin Poland in 2015 and in Opole Poland in 2014 This conference provides a platform for academic exchange on the theory and application of fractional calculus between domestic and international universities research institutes corporate experts and scholars The Proceedings of the 8th Conference on Non Integer Order Calculus and Its Applications 2016 brings together rigorously reviewed contributions from leading international experts The included papers cover novel various important aspects of mathematical foundations of fractional calculus modeling and control of fractional systems as well as controllability detectability observability and stability problems for this systems **Basic Theory** Anatoly Kochubei,Yuri

Luchko,2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects **Computer Vision In Robotics And Industrial Applications** Dominik

Sankowski,Jacek Nowakowski,2014-06-26 The book presents a collection of practical applications of image processing and analysis Different vision systems are more often used among others in the automotive industry pharmacy military and police equipment automated production and measurement systems In each of these fields of technology digital image processing and analysis module is a critical part of the process of building this type of system The majority of books in the market deal with theoretical issues However this unique publication specially highlights industrial applications especially industrial

measurement applications Along with its wide spectrum of image processing and analysis applications this book is an interesting reference for both students and professionals     Artificial Intelligence and Soft Computing Leszek Rutkowski, Marcin Korytkowski, Rafał Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2017-06-01 The two volume set LNAI 10245 and LNAI 10246 constitutes the refereed proceedings of the 16th International Conference on Artificial Intelligence and Soft Computing ICAISC 2017 held in Zakopane Poland in June 2017 The 133 revised full papers presented were carefully reviewed and selected from 274 submissions The papers included in the first volume are organized in the following five parts neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications computer vision image and speech analysis and bioinformatics biometrics and medical applications     **Automation 2017** Roman Szewczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2017-02-28 This book consists of papers presented at Automation 2017 an international conference held in Warsaw from March 15 to 17 2017 It discusses research findings associated with the concepts behind INDUSTRY 4.0 with a focus on offering a better understanding of and promoting participation in the Fourth Industrial Revolution Each chapter presents a detailed analysis of a specific technical problem in most cases followed by a numerical analysis simulation and description of the results of implementing the solution in a real world context The theoretical results practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial problems     Syntactic Pattern Recognition Mariusz Flasiński, 2019-03-25 This unique compendium presents the major methods of recognition and learning used in syntactic pattern recognition from the 1960s till 2018 Each method is introduced firstly in a formal way Then it is explained with the help of examples and its algorithms are described in a pseudocode The survey of the applications contains more than 1 000 sources published since the 1960s The open problems in the field the challenges and the determinants of the future development of syntactic pattern recognition are discussed This must have volume provides a good read and serves as an excellent source of reference materials for researchers academics and postgraduate students in the fields of pattern recognition machine perception computer vision and artificial intelligence     Advanced, Contemporary Control Andrzej Bartoszewicz, Jacek Kabziński, Janusz Kacprzyk, 2020-06-24 This book presents the proceedings of the 20th Polish Control Conference A triennial event that was first held in 1958 the conference successfully combines its long tradition with a modern approach to shed light on problems in control engineering automation robotics and a wide range of applications in these disciplines The book presents new theoretical results concerning the steering of dynamical systems as well as industrial case studies and worked solutions to real world problems in contemporary engineering It particularly focuses on the modelling identification analysis and design of automation systems however it also addresses the evaluation of their performance efficiency and reliability Other topics include fault tolerant control in robotics automated manufacturing mechatronics and industrial systems Moreover it discusses data processing and transfer issues covering a variety of

methodologies including model predictive robust and adaptive techniques as well as algebraic and geometric methods and fractional order calculus approaches The book also examines essential application areas such as transportation and autonomous intelligent vehicle systems robotic arms mobile manipulators cyber physical systems electric drives and both surface and underwater marine vessels Lastly it explores biological and medical applications of the control theory inspired methods

*Dynamic Equations on Time Scales and Applications* Ravi P Agarwal, Bipan Hazarika, Sanket Tikare, 2024-10-18

This book presents the theory of dynamic equations on time scales and applications providing an overview of recent developments in the foundations of the field as well as its applications It discusses the recent results related to the qualitative properties of solutions like existence and uniqueness stability continuous dependence controllability oscillations etc Presents cutting edge research trends of dynamic equations and recent advances in contemporary research on the topic of time scales Connects several new areas of dynamic equations on time scales with applications in different fields Includes mathematical explanation from the perspective of existing knowledge of dynamic equations on time scales Offers several new recently developed results which are useful for the mathematical modeling of various phenomena Useful for several interdisciplinary fields like economics biology and population dynamics from the perspective of new trends The text is for postgraduate students professionals and academic researchers working in the fields of Applied Mathematics



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