

George A. Anastassiou  
Ioannis K. Argyros

# Intelligent Numerical Methods: Applications to Fractional Calculus

# Intelligent Numerical Methods Applications Computational

**Mourad Fakhfakh, Esteban Tlelo-  
Cautle, Patrick Siarry**



## **Intelligent Numerical Methods Applications Computational:**

*Intelligent Numerical Methods: Applications to Fractional Calculus* George A. Anastassiou, Ioannis K. Argyros, 2015-12-07  
In this monograph the authors present Newton type Newton like and other numerical methods which involve fractional derivatives and fractional integral operators for the first time studied in the literature All for the purpose to solve numerically equations whose associated functions can be also non differentiable in the ordinary sense That is among others extending the classical Newton method theory which requires usual differentiability of function Chapters are self contained and can be read independently and several advanced courses can be taught out of this book An extensive list of references is given per chapter The book s results are expected to find applications in many areas of applied mathematics stochastics computer science and engineering As such this monograph is suitable for researchers graduate students and seminars of the above subjects also to be in all science and engineering libraries      Intelligent Numerical Methods II: Applications to Multivariate Fractional Calculus George A. Anastassiou, Ioannis K. Argyros, 2016-04-27 In this short monograph Newton like and other similar numerical methods with applications to solving multivariate equations are developed which involve Caputo type fractional mixed partial derivatives and multivariate fractional Riemann Liouville integral operators These are studied for the first time in the literature The chapters are self contained and can be read independently An extensive list of references is given per chapter The book s results are expected to find applications in many areas of applied mathematics stochastics computer science and engineering As such this short monograph is suitable for researchers graduate students to be used in graduate classes and seminars of the above subjects also to be in all science and engineering libraries      *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      **Automation and Computational Intelligence for Road Maintenance and Management** Hamzeh Zakeri, Fereidoon Moghadas Nejad, Amir H. Gandomi, 2022-06-22 Automation and Computational Intelligence for Road Maintenance and Management A comprehensive computational intelligence toolbox for solving problems in infrastructure management In Automation and Computational Intelligence for Road Maintenance and Management a team of accomplished researchers delivers an incisive reference that covers the latest developments in computer technology infrastructure management The book contains an overview of foundational and emerging technologies and methods in both automation and computational intelligence as well as detailed presentations of specific methodologies The distinguished authors emphasize the most recent advances in the maintenance and management of infrastructure robotics automated inspection remote sensing and the applications of new and emerging computing technologies including artificial intelligence evolutionary computing fuzzy logic genetic algorithms knowledge

discovery and engineering and more Automation and Computational Intelligence for Road Maintenance and Management explores a universal synthesis of the cutting edge in parameters and indices to evaluate models It also includes Thorough introductions to management science and the latest methods of automation and the structure and framework of automation and computing intelligence Comprehensive explorations of advanced image processing techniques recent advances in fuzzy and diagnosis automation Practical discussions of segmentation and fragmentation and different types of features and feature extraction methods In depth examinations of methods of classification along with various developed methodologies and models of quantification evaluation and indexing in automation Perfect for postgraduate students in road and transportation engineering evaluation and assessment Automation and Computational Intelligence for Road Maintenance and Management will also earn a place in the libraries of researchers interested in or working with the evaluation and assessment of infrastructure

**Handbook of Research on Artificial Intelligence Techniques and Algorithms** Vasant, Pandian, 2014-11-30 For decades optimization methods such as Fuzzy Logic Artificial Neural Networks Firefly Simulated annealing and Tabu search have been capable of handling and tackling a wide range of real world application problems in society and nature Analysts have turned to these problem solving techniques in the event during natural disasters and chaotic systems research The Handbook of Research on Artificial Intelligence Techniques and Algorithms highlights the cutting edge developments in this promising research area This premier reference work applies Meta heuristics Optimization MO Techniques to real world problems in a variety of fields including business logistics computer science engineering and government This work is particularly relevant to researchers scientists decision makers managers and practitioners

*Coevolutionary Computation and Multiagent Systems* Li-cheng Jiao, Jing Liu, Weicai Zhong, 2012 The origins of evolutionary computation can be traced back to the late 1950 s where it remained almost unknown to the broader scientific community for three decades until the 1980 s when it started to receive significant attention as did the study of multi agent systems MAS This focuses on systems in which many intelligent agents interact with each other Today these systems are not simply a research topic but are also beginning to become an important subject of academic teaching and industrial and commercial application Co Evolutionary Computational and Multi Agent Systems introduces the author s recent work in these two new and important branches of artificial intelligence

**Machine Learning in Geohazard Risk Prediction and Assessment** Biswajeet Pradhan, Daichao Sheng, Xuzhen He, 2025-07-01 Machine Learning in Geohazard Risk Prediction and Assessment From Microscale Analysis to Regional Mapping presents an overview of the most recent developments in machine learning techniques that have reshaped our understanding of geo materials and management protocols of geo risk The book covers a broad category of research on machine learning techniques that can be applied from microscopic modeling to constitutive modeling to physics based numerical modeling to regional susceptibility mapping This is a good reference for researchers academicians graduate and undergraduate students professionals and practitioners in the field of

geotechnical engineering and applied geology Introduces machine learning techniques in the risk management of geo hazards particularly recent developments Covers a broader category of research and machine learning techniques that can be applied from microscopic modeling to constitutive modeling to physics based numerical modeling to regional susceptibility mapping Contains contributions from top researchers around the world including authors from the UK USA Australia Austria China and India      Intelligent and Soft Computing in Infrastructure Systems Engineering Kasthurirangan Gopalakrishnan, Halil Ceylan, Nii O. Attah-Okine, 2009-11-23 The term soft computing applies to variants of and combinations under the four broad categories of evolutionary computing neural networks fuzzy logic and Bayesian statistics Although each one has its separate strengths the complementary nature of these techniques when used in combination hybrid makes them a powerful alternative for solving complex problems where conventional mathematical methods fail The use of intelligent and soft computing techniques in the field of geotechnical and pavement engineering has steadily increased over the past decade owing to their ability to admit approximate reasoning imprecision uncertainty and partial truth Since real life infrastructure engineering decisions are made in ambiguous environments that require human expertise the application of soft computing techniques has been an attractive option in pavement and geomechanical modeling The objective of this carefully edited book is to highlight key recent advances made in the application of soft computing techniques in pavement and geotechnical systems Soft computing techniques discussed in this book include but are not limited to neural networks evolutionary computing swarm intelligence probabilistic modeling kernel machines knowledge discovery and data mining neuro fuzzy systems and hybrid approaches Highlighted application areas include infrastructure materials modeling pavement analysis and design rapid interpretation of nondestructive testing results porous asphalt concrete distress modeling model parameter identification pavement engineering inversion problems soil grade soils characterization and backcalculation of pavement layer thickness and moduli      Applications of Artificial Intelligence in Engineering VI George Rzevski, R.A. Adey, 2012-12-06 This book contains papers presented at the sixth International Conference on Application of Artificial Intelligence in Engineering held in Oxford UK in 1991 The first conference in this series the second in Cambridge Massachusetts USA in 1987 the third in 1986 1989 in Palo Alto California USA in 1988 the fourth in Cambridge UK in 1990 and the fifth in Boston Massachusetts USA in 1990 The conference series has now established itself as the unique forum for the presentation of the latest research development and application of artificial intelligence AI in all fields of engineering Consequently books of conference proceedings provide a historical record of the application of AI in engineering design analysis simulation planning scheduling monitoring control diagnosis reliability and quality as well as in robotics and manufacturing systems from the early beginnings to mature applications of today Whilst previously the field was dominated by knowledge based systems in this latest volume for the first time a significant proportion of papers cover the paradigms of neural networks and genetic algorithms Learning and self organising behaviour of systems based on these paradigms are

particularly important in engineering applications From a large number of submitted proposals over sixty papers have been selected by members of the Advisory Committee who acted as referees Papers have been grouped under the following headings

*Computational Intelligence in Optimization* Yoel Tenne, Chi-Keong Goh, 2010-06-30 This collection of recent studies spans a range of computational intelligence applications emphasizing their application to challenging real world problems Covers Intelligent agent based algorithms Hybrid intelligent systems Machine learning and more

**Computational Intelligence in Reliability Engineering** Gregory Levitin, 2006-10-26 This book covers the recent applications of computational intelligence techniques in reliability engineering This volume contains a survey of the contributions made to the optimal reliability design literature in recent years It also contains chapters devoted to different applications of a genetic algorithm in reliability engineering and to combinations of this algorithm with other computational intelligence techniques

**Computational Statistics and Data Intelligence** Wenfeng Wang, Wanyang Dai, Hari M. Srivastava, 2024-08-01 This book gathers selected papers presented at the Asia Pacific Conference on Applied Mathematics and Statistics held on June 24-26, 2023 in Chongqing, China It presents the most recent research and advances in various areas of applied mathematics and statistics span from mathematical theory calculation modeling simulation to applications such as big data and image processing

Artificial Intelligence on Medical Data Mousumi Gupta, Sujata Ghatak, Amlan Gupta, Abir Lal Mukherjee, 2022-07-23 This book includes high quality papers presented at the Second International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis ISCMM 2021 organized by Computer Applications Department SMIT in collaboration with Department of Pathology SMIMS Sikkim India and funded by Indian Council of Medical Research during 11-12 November 2021 It discusses common research problems and challenges in medical image analysis such as deep learning methods It also discusses how these theories can be applied to a broad range of application areas including lung and chest x-ray breast CAD microscopy and pathology The studies included mainly focus on the detection of events from biomedical signals

**Computational Intelligence in Analog and Mixed-Signal (AMS) and Radio-Frequency (RF) Circuit Design** Mourad Fakhfakh, Esteban Tlelo-Cuautle, Patrick Siarry, 2015-07-14 This book explains the application of recent advances in computational intelligence algorithms design methodologies and synthesis techniques to the design of integrated circuits and systems It highlights new biasing and sizing approaches and optimization techniques and their application to the design of high performance digital VLSI radio frequency and mixed signal circuits and systems This first of two related volumes addresses the design of analog and mixed signal AMS and radio frequency RF circuits with 17 chapters grouped into parts on analog and mixed signal applications and radio frequency design It will be of interest to practitioners and researchers in computer science and electronics engineering engaged with the design of electronic circuits

Using Computational Intelligence for Sustainable Manufacturing of Advanced Materials Muduli, Kamalakanta, Moharana, Bikash Ranjan, Ales, Steve Korakan, Biswal, Dillip Kumar, 2025-04-23 The shift toward sustainable

manufacturing is vital for addressing the pressing environmental challenges of the 21st century. By integrating sustainability principles, manufacturing processes can minimize resource consumption, reduce greenhouse gas emissions, and extend product lifecycles. This approach emphasizes designing for regeneration using eco-friendly materials and adopting advanced digital technologies like artificial intelligence (AI), Internet of Things (IoT), and blockchain to optimize production and promote environmental stewardship. Sustainable manufacturing not only mitigates ecological harm but also fosters innovation, enhances competitiveness, and supports long-term economic and societal resilience. Adopting such practices is essential for transitioning to a more responsible and sustainable global economy.

Using Computational Intelligence for Sustainable Manufacturing of Advanced Materials highlights how the application of computational intelligence techniques can promote resource and environmental sustainability in manufacturing systems and operational practices. It further examines how sustainable practices and advanced technologies in materials manufacturing can revolutionize production processes while minimizing environmental impact and promoting resource efficiency. Covering topics such as energy storage, nanoparticles, and biomaterials, this book is an excellent resource for computer scientists, business professionals, manufacturers, environmentalists, researchers, professionals, scholars, academicians, and more.

*Intelligent Computing and Optimization for Sustainable Development* Veena Grover, Rajesh Kumar Dhanaraj, Balamurugan Balusamy, Gopal Rathinam, 2024-12-19. This book presents insights into how Intelligent Computing and Optimization techniques can be used to attain the goals of Sustainable Development. It provides a comprehensive overview of the latest breakthroughs and recent developments in sustainable intelligent computing technologies, applications, and optimization techniques across various industries, including business process management, manufacturing, financial sector, agriculture, financial sector, supply chain management, and healthcare. It focuses on computational intelligent techniques and optimization techniques to provide sustainable solutions to many problems. Features: Provides insights into the theory, implementation, and application of computational intelligence techniques in many industries. Includes industry practitioner perspectives and case studies for a better understanding of sustainable solutions. Highlights the role of intelligent computing and optimization as key technologies in decision-making processes and in providing cutting-edge solutions to real-world problems. Addresses the challenges and limitations of computational approaches in sustainability, such as data availability, model uncertainty, and computational complexity, while also discussing emerging opportunities and future directions in the field. This book will be useful for professionals and scholars looking for up-to-date research on cutting-edge perspectives in the field of computational intelligent and optimization techniques in the areas of agriculture, industry, financial sector, business automation, renewable energy, optimization, and smart cities.

**Methodologies and Applications of Computational Statistics for Machine Intelligence** Samanta, Debabrata, Rao Althar, Raghavendra, Pramanik, Sabyasachi, Dutta, Soumi, 2021-06-25. With the field of computational statistics growing rapidly, there is a need for capturing the advances and assessing their impact. Advances in simulation and graphical

analysis also add to the pace of the statistical analytics field Computational statistics play a key role in financial applications particularly risk management and derivative pricing biological applications including bioinformatics and computational biology and computer network security applications that touch the lives of people With high impacting areas such as these it becomes important to dig deeper into the subject and explore the key areas and their progress in the recent past

*Methodologies and Applications of Computational Statistics for Machine Intelligence* serves as a guide to the applications of new advances in computational statistics This text holds an accumulation of the thoughts of multiple experts together keeping the focus on core computational statistics that apply to all domains Covering topics including artificial intelligence deep learning and trend analysis this book is an ideal resource for statisticians computer scientists mathematicians lecturers tutors researchers academic and corporate libraries practitioners professionals students and academicians *Translating Healthcare Through Intelligent Computational Methods* C. Ram Kumar,S. Karthik,2023-06-07 This book provides information on interdependencies of medicine and telecommunications engineering and how Covid exemplifies how the two must rely on each other to effectively function in this era The book discusses new techniques for medical service improvisation such as clear cut views on medical technologies The authors provide chapters on processing of medical amenities using medical images the importance of data and information technology in medicine and machine learning and artificial intelligence in healthcare Authors include researchers academics and professionals in the field of communications engineering with a variety of perspectives

**Computational Intelligence - Volume II** Hisao Ishibuchi,2015-12-30 Computational intelligence is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Computational intelligence is a rapidly growing research field including a wide variety of problem solving techniques inspired by nature Traditionally computational intelligence consists of three major research areas Neural Networks Fuzzy Systems and Evolutionary Computation Neural networks are mathematical models inspired by brains Neural networks have massively parallel network structures with many neurons and weighted connections Whereas each neuron has a simple input output relation a neural network with many neurons can realize a highly non linear complicated mapping Connection weights between neurons can be adjusted in an automated manner by a learning algorithm to realize a non linear mapping required in a particular application task Fuzzy systems are mathematical models proposed to handle inherent fuzziness in natural language For example it is very difficult to mathematically define the meaning of cold in everyday conversations such as It is cold today and Can I have cold water The meaning of cold may be different in a different situation Even in the same situation a different person may have a different meaning Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language As a result fuzzy systems have been successfully applied to real world problems by extracting linguistic knowledge from human experts in the form of fuzzy IF THEN rules Evolutionary computation includes various population

based search algorithms inspired by evolution in nature Those algorithms usually have the following three mechanisms fitness evaluation to measure the quality of each solution selection to choose good solutions from the current population and variation operators to generate offspring from parents Evolutionary computation has high applicability to a wide range of optimization problems with different characteristics since it does not need any explicit mathematical formulations of objective functions For example simulation based fitness evaluation is often used in evolutionary design Subjective fitness evaluation by a human user is also often used in evolutionary art and music These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers Intelligent Computational Paradigms in Earthquake Engineering Nikos D. Lagaros,Yiannis Tsompanakis,2007-01-01 This book contains contributions that cover a wide spectrum of very important real world engineering problems and explores the implementation of neural networks for the representation of structural responses in earthquake engineering It assesses the efficiency of seismic design procedures and describes the latest findings in intelligent optimal control systems and their applications in structural engineering Provided by publisher

## Reviewing **Intelligent Numerical Methods Applications Computational**: Unlocking the Spellbinding Force of Linguistics

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### **Table of Contents Intelligent Numerical Methods Applications Computational**

1. Understanding the eBook Intelligent Numerical Methods Applications Computational
  - The Rise of Digital Reading Intelligent Numerical Methods Applications Computational
  - Advantages of eBooks Over Traditional Books
2. Identifying Intelligent Numerical Methods Applications Computational
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Intelligent Numerical Methods Applications Computational
  - User-Friendly Interface
4. Exploring eBook Recommendations from Intelligent Numerical Methods Applications Computational
  - Personalized Recommendations
  - Intelligent Numerical Methods Applications Computational User Reviews and Ratings
  - Intelligent Numerical Methods Applications Computational and Bestseller Lists

5. Accessing Intelligent Numerical Methods Applications Computational Free and Paid eBooks
  - Intelligent Numerical Methods Applications Computational Public Domain eBooks
  - Intelligent Numerical Methods Applications Computational eBook Subscription Services
  - Intelligent Numerical Methods Applications Computational Budget-Friendly Options
6. Navigating Intelligent Numerical Methods Applications Computational eBook Formats
  - ePub, PDF, MOBI, and More
  - Intelligent Numerical Methods Applications Computational Compatibility with Devices
  - Intelligent Numerical Methods Applications Computational Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Intelligent Numerical Methods Applications Computational
  - Highlighting and Note-Taking Intelligent Numerical Methods Applications Computational
  - Interactive Elements Intelligent Numerical Methods Applications Computational
8. Staying Engaged with Intelligent Numerical Methods Applications Computational
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Intelligent Numerical Methods Applications Computational
9. Balancing eBooks and Physical Books Intelligent Numerical Methods Applications Computational
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Intelligent Numerical Methods Applications Computational
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Intelligent Numerical Methods Applications Computational
  - Setting Reading Goals Intelligent Numerical Methods Applications Computational
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Intelligent Numerical Methods Applications Computational
  - Fact-Checking eBook Content of Intelligent Numerical Methods Applications Computational
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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