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during the past 20 years there has been enormous productivity in theoretical as well as computational integration some attempts have been made to find an optimal or best numerical method and related computer code to put to rest the problem of numerical integration but the research is continuously ongoing as this problem is still very much open ended the importance of numerical integration in so many areas of science and technology has made a practical up to date reference on this subject long overdue the handbook of computational methods for integration discusses quadrature rules for finite and infinite range integrals and their applications in differential and integral equations fourier integrals and transforms hartley transforms fast fourier and hartley transforms laplace transforms and wavelets the practical applied perspective of this book makes it unique among the many theoretical books on numerical integration and quadrature it will be a welcomed addition to the libraries of applied mathematicians scientists and engineers in virtually every discipline

a state of the art reference to one of the most active and productive fields in linguistics computational linguistics thirty eight chapters commissioned from experts all over the world describe the major concepts methods and applications part i provides an overview of the field part ii describes current tasks techniques and tools in natural language processing and part iii surveys current applications

the handbook of computational social science is a comprehensive reference source for scholars across multiple disciplines it outlines key debates in the field showcasing novel statistical modeling and machine learning methods and draws from specific case studies to demonstrate the opportunities and challenges in css approaches the handbook is divided into two volumes written by outstanding internationally renowned scholars in the field this first volume focuses on the scope of computational social science ethics and case studies it covers a range of key issues including open science formal modeling and the social and behavioral sciences this volume explores major debates introduces digital trace data reviews the changing survey landscape and presents novel examples of computational social science research on sensing social interaction social robots bots sentiment manipulation and extremism in social media the volume not only makes major contributions to the consolidation of this growing research field but also encourages growth into new directions with its broad coverage of perspectives theoretical methodological computational international scope and interdisciplinary approach this important resource is integral reading for advanced undergraduates postgraduates and researchers engaging with computational methods across the social sciences as well as those within the scientific and engineering sectors

handbook of computational econometrics examines the state of the art of computational econometrics and provides exemplary studies dealing with computational issues arising from a wide spectrum of econometric fields including such topics as bootstrapping the evaluation of

econometric software and algorithms for control optimization and estimation each topic is fully introduced before proceeding to a more in depth examination of the relevant methodologies and valuable illustrations this book provides self contained treatments of issues in computational econometrics with illustrations and invaluable bibliographies brings together contributions from leading researchers develops the techniques needed to carry out computational econometrics features network studies non parametric estimation optimization techniques bayesian estimation and inference testing methods time series analysis linear and nonlinear methods var analysis bootstrapping developments signal extraction software history and evaluation this book will appeal to econometricians financial statisticians econometric researchers and students of econometrics at both graduate and advanced undergraduate levels

the springer handbook for computational intelligence is the first book covering the basics the state of the art and important applications of the dynamic and rapidly expanding discipline of computational intelligence this comprehensive handbook makes readers familiar with a broad spectrum of approaches to solve various problems in science and technology possible approaches include for example those being inspired by biology living organisms and animate systems content is organized in seven parts foundations fuzzy logic rough sets evolutionary computation neural networks swarm intelligence and hybrid computational intelligence systems each part is supervised by its own part editor s so that high quality content as well as completeness are assured

this handbook provides a survey of both the foundations of and recent advances in the frontiers of analysis and action it is both historically and interdisciplinarily rich and also tightly connected to the rise of digital society it begins with the conventional view of computational economics including recent algorithmic development in computing rational expectations volatility and general equilibrium it then moves from traditional computing in economics and

finance to recent developments in natural computing including applications of nature inspired intelligence genetic programming swarm intelligence and fuzzy logic also examined are recent developments of network and agent based computing in economics

the handbook of computational social science is a comprehensive reference source for scholars across multiple disciplines it outlines key debates in the field showcasing novel statistical modeling and machine learning methods and draws from specific case studies to demonstrate the opportunities and challenges in css approaches the handbook is divided into two volumes written by outstanding internationally renowned scholars in the field this second volume focuses on foundations and advances in data science statistical modeling and machine learning it covers a range of key issues including the management of big data in terms of record linkage streaming and missing data machine learning agent based and statistical modeling as well as data quality in relation to digital trace and textual data as well as probability non probability and crowdsourced samples represent further foci the volume not only makes major contributions to the consolidation of this growing research field but also encourages growth into new directions with its broad coverage of perspectives theoretical methodological computational international scope and interdisciplinary approach this important resource is integral reading for advanced undergraduates postgraduates and researchers engaging with computational methods across the social sciences as well as those within the scientific and engineering sectors

problem oriented programming languages as they have developed over the last ten years essentially serve two purposes which somewhat crudely can be described by the terms man man communication and man machine communication respectively as a carrier of information between humans the problem oriented programming language is designed to express the essence of an algorithm in a way which is un ambiguous and concise as well as independent of

and therefore meaning ful without any reference to the changing details of computing machine ry as a carrier of information from man to computer the language permits the human programmer to express his computational needs in a compact way adapted to the general characteristics of computers but freed from the burdening details of specific computer facilities this presupposes the existence of algorithms or programs which permit the computer itself to transform efficiently programs written in the problem oriented language into machine programs thus the entire computing community profits from the work of the individual programmer the primary purpose of the handbook is to present a set of algorithms of broad utility from the domain of numerical mathematics written in the problem oriented language algol 60 therefore volumes i a and i b are in a sense supplementary as they serve to introduce this language volume i a gives a description of the language proper and of its use for writing correct programs thus volume i a primarily covers the aspect of man man communication by means of algol 60

this book offers a timely introduction to the possibilities in computational science and engineering to advance the ongoing research and applications leading to the discovery of new resources and cutting edge developments provided by publisher

this handbook is a guide to current methods of computational chemistry explaining their limitations and advantages and providing examples of their applications the first part outlines methods the balance of volumes present numerous important applications

working computationally in applied mathematics is the very essence of dealing with real world problems in science and engineering approximation theory on the borderline between pure and applied mathematics has always supplied some of the most innovative ideas computational methods and original approaches to many types of problems the f

the phylogenetic handbook is a broad hands on guide to theory and practice of nucleotide and protein phylogenetic analysis this second edition includes six new chapters covering topics such as bayesian inference tree topology testing and the impact of recombination on phylogenies as well as a detailed section on molecular adaptation the book has a stronger focus on hypothesis testing than the previous edition with more extensive discussions on recombination analysis detecting molecular adaptation and genealogy based population genetics many chapters include elaborate practical sections which have been updated to introduce the reader to the most recent versions of sequence analysis and phylogeny software including blast fasta clustal t coffee muscle dambe tree puzzle phylip mega paup iqpnni consel modeltest prottest paml hyphy mrbayes beast lamarc splitstree and rdp many analysis tools are described by their original authors resulting in clear explanations that constitute an ideal teaching guide for advanced level undergraduate and graduate students

complex systems analysis has become a fascinating topic in modern research on non linear dynamics not only in the physical sciences but also in the life sciences and the social sciences after the era of bifurcation theory chaos theory syn getics resilience analysis network dynamics and evolutionary thinking currently we observe an increasing interest in critical transitions of dynamic real world systems in many disciplines such as demography biology psychology economics earth sciences geology seismology medical sciences and so on the relevance of this approach is clearly re ected in such phenomena as traf c congestion nancial crisis ethnic con icts eco system breakdown health failures etc this has prompted a world wide interest in complex systems geographical space is one of the playgrounds for complex dynamics as is witnessed by population movements transport ows retail developments urban expansion lowland ooding and so forth all such dynamic phenomena have one feature in common the low predictability of uncertain interrelated events occurring at different interconnected spatio

temporal scale levels and often originating from different disciplinary backgrounds the study of the associated non linear fast and slow dynamic transition paths calls for a joint research effort of scientists from different disciplines in order to understand the nature the roots and the con quences of unexpected or unpredictable changes in complex spatial systems

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