

Thomas Pavel Springer

This book comprises a collection of high quality papers in selected topics of Discrete Mathematics, to celebrate the 60th birthday of Professor Jarik Nešetřil. Leading experts have contributed survey and research papers in the areas of Algebraic Combinatorics, Combinatorial Number Theory, Game theory, Ramsey Theory, Graphs and Hypergraphs, Homomorphisms, Graph Colorings and Graph Embeddings. This volume presents detailed, recently-developed protocols ranging from isolation of nuclei to purification of chromatin regions containing single genes, with a particular focus on some less well-explored aspects of the nucleus. The methods described include new strategies for isolation of nuclei, for purification of cell type-specific nuclei from a mixture, and for rapid isolation and fractionation of nucleoli. For gene delivery into and expression in nuclei, a novel gentle approach using gold nanowires is presented. As the concentration and localization of water and ions are crucial for macromolecular interactions in the nucleus, a new approach to measure these parameters by correlative optical and cryo-electron microscopy is described. The

Nucleus, Second Edition presents methods and software for high-throughput quantitative analysis of 3D fluorescence microscopy images, for quantification of the formation of amyloid fibrils in the nucleus, and for quantitative analysis of chromosome territory localization. Written in the successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *The Nucleus, Second Edition* seeks to serve both professionals and novices with its well-honed methods for the study of the nucleus.

This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Computer Mathematics, CICM 2019, held in Prague, Czech Republic, in July 2019. The 19 full papers presented were carefully reviewed and selected from a total of 41 submissions. The papers focus on digital and computational solutions which are becoming the prevalent means for the generation, communication, processing, storage and curation of mathematical

information. Separate communities have developed to investigate and build computer based systems for computer algebra, automated deduction, and mathematical publishing as well as novel user interfaces. While all of these systems excel in their own right, their integration can lead to synergies offering significant added value.

This book offers a broad re-evaluation of the key ideas developed by the German Romantics concerning philosophy and literature. It focuses not only on their own work, but also on that of their fellow travelers (such as Hölderlin) and their contemporary opponents (such as Hegel), as well as on various reactions to and transpositions of their ideas in later authors, including Coleridge, Byron, Kierkegaard, Nietzsche, and Dostoevsky.

Methods and Protocols

Modeling and Using Context

A Tribute to Jiří Matoušek

Price Dynamics and Options Valuation

Guidelines, Design Patterns, and

Application Examples with the IEC 61499

The Nucleus

Nature-Based Flood Risk Management on Private Land

This book provides a practical guide to current methods for profiling and

interpreting genomic alterations in tumors. Chapters detail methods to interrogate DNA variation, RNA expression, and epigenetic changes using both next-generation sequencing and microarray techniques, common bioinformatics and annotation tools to glean relevant driver genomic events, and different performance characteristics as well as quality metrics necessary for the robust validation of tumor profiling as a diagnostic test for medical laboratories. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Tumor Profiling: Methods and Protocols* aims to be a useful resource for learning about technical details, applications, and strengths and limitations of the latest technologies as applied to this increasingly important field. .

This is an open access book. Media industry research and EU policymaking are predominantly tailored to large (and, in the latter case, Western) European markets. This open access book addresses

the specific qualities of smaller media markets, highlighting their vulnerability to global digital competition and outlining survival strategies for them. New online distribution models and new trends in the consumption of audiovisual content are limited by, and pose new challenges for, existing audiovisual business models and their legal framework in the EU. The European Commission's Digital Single Market (DSM) strategy, which was intended e.g. to remove obstacles to the cross-border distribution of audiovisual content, has triggered a heated debate on the transformation of the existing ecosystem for European screen industries. While most current discussions focus on the United States, Western Europe, and the multinational giants, this book approaches these industry trends and policy questions from the perspective of relatively small and peripheral (in terms of their population, language, cross-border cultural flows, and financial and/or symbolic capital) media markets. . This introduction to first-order logic clearly works out the role of first-order logic in the foundations of mathematics, particularly the two basic questions of the range of the axiomatic method and of theorem-proving by machines. It covers

several advanced topics not commonly treated in introductory texts, such as Fraïssé's characterization of elementary equivalence, Lindström's theorem on the maximality of first-order logic, and the fundamentals of logic programming.

Print+CourseSmart

Advances in Self-Organizing Maps

Topics in Discrete Mathematics

Complementary & Alternative Therapies in Nursing

14th European Conference, EUMAS 2016, and

4th International Conference, AT 2016,

Valencia, Spain, December 15-16, 2016,

Revised Selected Papers

Restarting Tree Automata. Formal Properties and Possible Variations

Applied Linear Algebra

Tumor Profiling

Factorization algebras are local-to-global objects that play a role in classical and quantum field theory which is similar to the role of sheaves in geometry: they conveniently organize complicated information. Their local structure encompasses examples like associative and vertex algebras; in these examples, their global structure encompasses Hochschild homology and conformal blocks. In this first volume, the authors develop the theory of factorization algebras in depth, but with a focus upon examples exhibiting their use in field theory, such as the recovery of a vertex algebra from a chiral conformal field theory and a quantum group from Abelian Chern-Simons theory. Expositions of the relevant background in homological algebra, sheaves and functional analysis are also included, thus making this book ideal for researchers and graduates

working at the interface between mathematics and physics. This volume provides a comprehensive collection of current methods and protocols to study posttranscriptional base modifications in RNA with special focus on methylation. The protocols in this book discuss state-of-the-art methods for investigating aspects of RNA methylation on different types of RNA. The protocols cover topics such as wet-lab techniques for the detection of methylation, instructions for bioinformatics analyses of transcriptome-scale data, and protocols for the functional examination of RNA modifications and enzymes. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, RNA Methylation: Methods and Protocols is a valuable resource for biochemists and molecular biologists, from various fields, who wish to investigate different types of RNA methylations.

The aquaporin field has matured at an exceptionally fast pace and we are at the verge to develop serious strategies to therapeutically modulate aquaporin function directly or via regulatory networks. Key prerequisites are available today: i. a considerable (and growing) number of aquaporin crystal structures for the rational design of inhibitory molecules, ii. elaborate molecular dynamics simulation techniques for theoretical analyses of selectivity mechanisms and docking experiments, iii. comprehensive data on aquaporin immunohistochemistry, iv. aquaporin knockout animals for physiological studies, and v. assay systems for compound library screenings. The structure of this volume on aquaporins follows the points laid out above and thus covers the developments from basic research to potential pharmacological use. Situated between pharmacology textbooks and recent scientific papers this book provides a timely overview for readers from the fundamental as well as the applied disciplines.

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This first volume develops factorization algebras with a focus upon examples exhibiting their use in field theory, which will be useful for researchers and graduates.

A History of the Central Limit Theorem

Mathematical Logic

Automated Machine Learning

A Gentle Introduction

A Journey Through Discrete Mathematics

Mammalian, Microbial, and Plant Cells

Romanticism, Philosophy, and Literature

Despite its long history and stunning experimental successes, the mathematical foundation of perturbative quantum field theory is still a subject of ongoing research. This book aims at presenting some of the most recent advances in the field, and at reflecting the diversity of approaches and tools invented and currently employed. Both leading experts and comparative newcomers to the field present their latest findings, helping readers to gain a better understanding of not only quantum but also classical field theories. Though the book offers a valuable resource for mathematicians and physicists alike, the focus is more on mathematical developments. This volume consists of four parts: The first Part covers local aspects of perturbative quantum field theory, with an emphasis on the axiomatization of the algebra behind the operator product expansion. The second

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Part highlights Chern-Simons gauge theories, while the third examines (semi-)classical field theories. In closing, Part 4 addresses factorization homology and factorization algebras. This book analyses the film industries and cinema cultures of Nazi-occupied countries (1939-1945) from the point of view of individuals: local captains of industry, cinema managers, those working for film studios and officials authorized to navigate film policy. The book considers these people from a historical perspective, taking into account their career before the occupation and, where relevant, pays attention to their post-war lives. The perspectives of these historical agents" contributes to an understanding of how top-down orders and haphazard signals from the occupying administration were moulded, adjusted and distorted in the process of their translation and implementation. This edited collection offers a more dynamic and less deterministic approach to research on the international expansion of Third-Reich cinema in World War Two; an approach that strives to balance the role of individual agency with the structural determinants. The case studies presented in this book cover the territories of

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Belgium, Czechoslovakia, France, the Netherlands, Norway, Poland and the Soviet Union.

The Mathematics of Chip-firing is a solid introduction and overview of the growing field of chip-firing. It offers an appreciation for the richness and diversity of the subject. Chip-firing refers to a discrete dynamical system – a commodity is exchanged between sites of a network according to very simple local rules. Although governed by local rules, the long-term global behavior of the system reveals fascinating properties. The Fundamental properties of chip-firing are covered from a variety of perspectives. This gives the reader both a broad context of the field and concrete entry points from different backgrounds. Broken into two sections, the first examines the fundamentals of chip-firing, while the second half presents more general frameworks for chip-firing. Instructors and students will discover that this book provides a comprehensive background to approaching original sources. Features: Provides a broad introduction for researchers interested in the subject of chip-firing The text includes historical and current perspectives Exercises included at the end of each chapter About

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the Author: Caroline J. Klivans received a BA degree in mathematics from Cornell University and a PhD in applied mathematics from MIT. Currently, she is an Associate Professor in the Division of Applied Mathematics at Brown University. She is also an Associate Director of ICERM (Institute for Computational and Experimental Research in Mathematics). Before coming to Brown she held positions at MSRI, Cornell and the University of Chicago. Her research is in algebraic, geometric and topological combinatorics. This book constitutes the thoroughly refereed workshop post-proceedings of the 19th International Workshop on Approximation and Online Algorithms, WAOA 2021, held in September 2021. Due to COVID-19 pandemic the conference was held virtually. The 16 revised full papers presented in this book were carefully reviewed and selected from 31 submissions. The papers focus on the design and analysis of algorithms for online and computationally hard problems. Dedicated to Jarik Nešetřil on the Occasion of his 60th birthday

Patents

12th International Conference, CICM 2019, Prague, Czech Republic, July 8-12, 2019, Proceedings

Aquaporins

Distributed Control Applications

*Multi-Agent Systems and Agreement
Technologies*

Heroizability

Cybersecurity Analytics is for the cybersecurity student and professional who wants to learn data science techniques critical for tackling cybersecurity challenges, and for the data science student and professional who wants to learn about cybersecurity adaptations. Trying to build a malware detector, a phishing email detector, or just interested in finding patterns in your datasets? This book can let you do it on your own. Numerous examples and datasets links are included so that the reader can "learn by doing." Anyone with a basic college-level calculus course and some probability knowledge can easily understand most of the material. The book includes chapters containing: unsupervised learning, semi-supervised learning, supervised learning, text mining, natural language processing, and more. It also includes background on security, statistics, and linear algebra. The website for the book contains a listing of datasets, updates, and other resources for serious practitioners. The two main themes of this book, logic and complexity, are both essential for understanding the main problems about the foundations of mathematics. Logical Foundations of Mathematics and Computational Complexity covers a broad spectrum of results in logic and set theory that are relevant to the foundations, as well

as the results in computational complexity and the interdisciplinary area of proof complexity. The author presents his ideas on how these areas are connected, what are the most fundamental problems and how they should be approached. In particular, he argues that complexity is as important for foundations as are the more traditional concepts of computability and provability. Emphasis is on explaining the essence of concepts and the ideas of proofs, rather than presenting precise formal statements and full proofs. Each section starts with concepts and results easily explained, and gradually proceeds to more difficult ones. The notes after each section present some formal definitions, theorems and proofs. Logical Foundations of Mathematics and Computational Complexity is aimed at graduate students of all fields of mathematics who are interested in logic, complexity and foundations. It will also be of interest for both physicists and philosophers who are curious to learn the basics of logic and complexity theory.

This book constitutes the revised selected papers from the 14th European Conference on Multi-Agent Systems, EUMAS 2016, and the Fourth International Conference on Agreement Technologies, AT 2016, held in Valencia, Spain, in December 2016. The 43 papers and 2 invited papers presented in this volume were carefully reviewed and selected from 68 submissions. The papers cover thematic areas as agent and multi-agent system models, algorithms, applications, simulations, theoretical studies, and for AT the thematic areas are: algorithms

The author argues that Heroizability, the ability of heroizing the major character, is the required theory for producing meanings in literary narratives introduced in three circles: the author's, the protagonist's, and the reader's. Based on an evolutionary model, heroizability treats literary characters as natural anthroposemiotic entities aware of their natural motivation to achieve in order to survive and produce meanings of their survival.

From Classical to Modern Probability Theory

Intelligent Computer Mathematics

Methods, Systems, Challenges

SCAI 2008

Digital Peripheries

An Anthroposemiotic Theory of Literary Characters

Publishers' Trade List Annual

This open access book addresses the various disciplinary aspects of nature-based solutions in flood risk management on private land. In recent decades, water management has been moving towards nature-based solutions. These are assumed to be much more multi-purpose than traditional "grey infrastructures" and seem to be regarded as a panacea for many environmental issues. At the same time, such measures require more – and mostly privately owned – land and more diverse stakeholder involvement than traditional (grey) engineering approaches. They also present challenges related to different disciplines. Nature-based solutions for flood risk management not only require technical expertise,

but also call for interdisciplinary insights from land-use planning, economics, property rights, sociology, landscape planning, ecology, hydrology, agriculture and other disciplines to address the challenges of implementing them. Ultimately, nature-based flood risk management is a multi-disciplinary endeavor. Featuring numerous case studies of nature-based flood risk management accompanied by commentaries, this book presents brief academic reflections from two different disciplinary perspectives that critically highlight which specific aspects are of significance, and as such, underscore the multi-disciplinary nature of the challenges faced. The work aims at presenting new in-depth research on core topics of Husserl's thinking related to language (e.g., meaning, sign, ideality) supplemented with a variety of original phenomenological reflections on pre-linguistic experience, concept-formation and the limitations of (verbal) expression. In doing so, it supplies us the first anthology that focuses on Husserl's thinking in relation to language. Most of the contributions to this volume are based on research originally presented at the "Husserl Arbeitstage", which took place at the Husserl-Archives Leuven in November 2006. In addition, two other articles have been added in order to supplement the themes of the presentations. This book constitutes the refereed post-conference proceedings of 4 workshops, held at

the 4th International Conference on Internet Science, Thessaloniki, Greece, in November 2017: the Second International Workshop on the Internet for Financial Collective Awareness and Intelligence, IFIN 2017, the International Workshop on Data Economy 2017, the International Workshop on Digital Technology to Support Social Innovation, DSI 2017, and the International Workshop on Chatbot Research and Design, CONVERSATIONS 2017. The 17 full papers presented together with one short paper were carefully reviewed and selected from 27 submissions. The contributions of the IFIN workshop focus on a multidisciplinary dialogue on how to use the internet to promote financial awareness and capability among citizens whereas the papers of the Data Economy workshop show how online data change economy and business. The aim of the DSI workshop was to collect the lessons learned from different platforms and settings, and to understand the requirements and challenges for building and using digital platforms to effectively engage broad participation in the social innovation process. The papers of the Conversations workshop explore the brave new world of human-computer communication through natural language, gathering latest developments in chatbots research and design. This book provides an analysis, under both discrete-time and continuous-time frameworks, on the price dynamics of leveraged exchange-

traded funds (ETFs), with emphasis on the roles of leverage ratio, realized volatility, investment horizon, and tracking errors. This study provides new insights on the risks associated with ETFs. It also leads to the discussion of new risk management concepts, such as admissible leverage ratios and admissible risk horizon, as well as the mathematical and empirical analyses of several trading strategies, including static portfolios, pairs trading, and stop-loss strategies involving ETFs and LETFs. The final part of the book addresses the pricing of options written on LETFs. Since different LETFs are designed to track the same reference index, these funds and their associated options share very similar sources of randomness. The authors provide a no-arbitrage pricing approach that consistently value options on LETFs with different leverage ratios with stochastic volatility and jumps in the reference index. Their results are useful for market making of these options, and for identifying price discrepancies across the LETF options markets. As the market of leveraged exchange-traded products become a sizeable connected part of the financial market, it is crucial to better understand its feedback effect and broader market impact. This is important not only for individual and institutional investors, but also for regulators.

Mediation Between the National-Socialist Cultural
"New Order" and Local Structures
Meaning and Language: Phenomenological

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Perspectives

8th International Workshop, WSOM 2011, Espoo, Finland, June 13-15, 2011. Proceedings

19th International Workshop, WAOA 2021, Lisbon, Portugal, September 6-10, 2021, Revised Selected Papers

Approximation and Online Algorithms

4th International and Interdisciplinary Conference, CONTEXT 2003, Stanford, CA, USA, June 23-25, 2003, Proceedings

The Mathematics of Chip-Firing

This textbook develops the essential tools of linear algebra, with the goal of imparting technique alongside contextual understanding. Applications go hand-in-hand with theory, each reinforcing and explaining the other. This approach encourages students to develop not only the technical proficiency needed to go on to further study, but an appreciation for when, why, and how the tools of linear algebra can be used across modern applied mathematics. Providing an extensive treatment of essential topics such as Gaussian elimination, inner products and norms, and eigenvalues and singular values, this text can be used for an in-depth first course, or an application-driven second course in linear algebra. In this second edition, applications have been updated and expanded to include

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numerical methods, dynamical systems, data analysis, and signal processing, while the pedagogical flow of the core material has been improved. Throughout, the text emphasizes the conceptual connections between each application and the underlying linear algebraic techniques, thereby enabling students not only to learn how to apply the mathematical tools in routine contexts, but also to understand what is required to adapt to unusual or emerging problems. No previous knowledge of linear algebra is needed to approach this text, with single-variable calculus as the only formal prerequisite. However, the reader will need to draw upon some mathematical maturity to engage in the increasing abstraction inherent to the subject. Once equipped with the main tools and concepts from this book, students will be prepared for further study in differential equations, numerical analysis, data science and statistics, and a broad range of applications. The first author's text, *Introduction to Partial Differential Equations*, is an ideal companion volume, forming a natural extension of the linear mathematical methods developed here. This book presents a comprehensive study of the influence of Immanuel Kant's

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Critical Philosophy in the Russian Empire, spanning the period from the late 19th century to the Bolshevik Revolution. It systematically details the reception bestowed on Kant's ideas during his lifetime and up to and through the era of the First World War. The book traces the tensions arising in the early 19th century between the imported German scholars, who were often bristling with the latest philosophical developments in their homeland, and the more conservative Russian professors and administrators. The book goes on to examine the frequently neglected criticism of Kant in the theological institutions throughout the Russian Empire as well as the last remaining, though virtually unknown, embers of Kantianism during the reign of Nicholas I. With the political activities of many young radicals during the subsequent decades having been amply studied, this book focuses on their largely ignored attempts to grapple with Kant's transcendental idealism. It also presents a complete account of the resurgence of interest in Kant in the last two decades of that century, and the growing attempts to graft a transcendental idealism onto popular social and political movements. The book draws attention to the

young and budding Russian neo-Kantian movement that mirrored developments in Germany before being overtaken by political events.

The Handbook of Financial Time Series gives an up-to-date overview of the field and covers all relevant topics both from a statistical and an econometrical point of view. There are many fine contributions, and a preamble by Nobel Prize winner Robert F. Engle.

This study discusses the history of the central limit theorem and related probabilistic limit theorems from about 1810 through 1950. In this context the book also describes the historical development of analytical probability theory and its tools, such as characteristic functions or moments. The central limit theorem was originally deduced by Laplace as a statement about approximations for the distributions of sums of independent random variables within the framework of classical probability, which focused upon specific problems and applications. Making this theorem an autonomous mathematical object was very important for the development of modern probability theory.

Disciplinary Perspectives on a Multidisciplinary Challenge

Cybersecurity Analytics

INSCI 2017 International Workshops, IFIN,
DATA ECONOMY, DSI, and CONVERSATIONS,
Thessaloniki, Greece, November 22, 2017,
Revised Selected Papers
Official Gazette of the United States
Patent and Trademark Office

Kant in Imperial Russia

Factorization Algebras in Quantum Field
Theory:

The Scandinavian Conference on Artificial Intelligence continues a tradition of being one of the most important regional AI conferences in Europe for ten years now. The topics of this year's contributions have a broad range, from machine learning, knowledge representation, robotics, planning and scheduling, natural language, computer vision, search algorithms, industrial applications, to philosophical foundations. These contributions exemplify the diversity of research in artificial intelligence today and confirm the achievement and magnitude of 25 years AI research in Scandinavia. In this tenth edition there will be an overview of the past, present and future of artificial intelligence. Furthermore, attention will be paid to the industrial aspects of artificial intelligence and the impressions from Swedish AI through the years. Other topics discussed are biosurveillance and an elaboration on probabilistic modelling and learning in a relational world.

This book constitutes the proceedings of the 35th European Conference on IR Research, ECIR 2013, held in Moscow,

Russia, in March 2013. The 55 full papers, 38 poster papers and 10 demonstrations presented in this volume were carefully reviewed and selected from 287 submissions. The papers are organized in the following topical sections: user aspects; multimedia and cross-media IR; data mining; IR theory and formal models; IR system architectures; classification; Web; event detection; temporal IR, and microblog search. Also included are 4 tutorial and 2 workshop presentations.

A diverse team of researchers, technologists, and engineers describe, in simple and practical language, the major current and evolving technologies for improving the biocatalytic capabilities of mammalian, microbial, and plant cells. The authors present state-of-the-art techniques proven methods, and strategies for industrial screening, cultivation, and scale-up of these cells, and describe their biotech and industrial uses. Special emphasis is given to the solving critical issues encountered during the discovery of new drugs, process development, and the manufacture of new and existing compounds. Other topics include recombinant protein expression, bioinformatics, high throughput screening, analytical tools in biotechnology, DNA shuffling, and genomics discovery.

This collection of high-quality articles in the field of combinatorics, geometry, algebraic topology and theoretical computer science is a tribute to Jiří Matoušek, who passed away prematurely in March 2015. It is a collaborative effort by his colleagues and friends, who have paid particular attention to clarity of exposition – something Jirka would have approved of. The original research articles, surveys and expository articles, written

by leading experts in their respective fields, map Jiří Matoušek's numerous areas of mathematical interest.

Leveraged Exchange-Traded Funds

Factorization Algebras in Quantum Field Theory

Advances in Information Retrieval

Mathematical Aspects of Quantum Field Theories

Internet Science

The Online Circulation of Audiovisual Content from the Small Market Perspective

Handbook of Industrial Cell Culture

Distributed Control Applications: Guidelines, Design Patterns, and Application Examples with the IEC

61499 discusses the IEC 61499 reference

architecture for distributed and reconfigurable

control and its adoption by industry. The book

provides design patterns, application guidelines, and

rules for designing distributed control applications

based on the IEC 61499 reference model. Moreover,

examples from various industrial domains and

laboratory environments are introduced and

explored.

The refereed proceedings of the 4th International and Interdisciplinary Conference on Modeling and

Using Context, CONTEXT 2003, held in Stanford, CA,

USA in June 2003. The 31 full papers and 15 short

papers presented were carefully reviewed, selected,

and revised for inclusion in the book. The papers

presented deal with the interdisciplinary topic of

modeling and using context from various points of

view, ranging through cognitive science, formal logic,

artificial intelligence, computational intelligence,

philosophical and psychological aspects, and

information processing. Highly general philosophical

and theoretical issues are complemented by specific applications in various fields.

Handbook of Financial Time Series Springer Science & Business Media

This open access book presents the first comprehensive overview of general methods in Automated Machine Learning (AutoML), collects descriptions of existing systems based on these methods, and discusses the first series of international challenges of AutoML systems. The recent success of commercial ML applications and the rapid growth of the field has created a high demand for off-the-shelf ML methods that can be used easily and without expert knowledge. However, many of the recent machine learning successes crucially rely on human experts, who manually select appropriate ML architectures (deep learning architectures or more traditional ML workflows) and their hyperparameters. To overcome this problem, the field of AutoML targets a progressive automation of machine learning, based on principles from optimization and machine learning itself. This book serves as a point of entry into this quickly-developing field for researchers and advanced students alike, as well as providing a reference for practitioners aiming to use AutoML in their work.

Seventh Edition

Handbook of Financial Time Series

RNA Methylation

Film Professionals in Nazi-Occupied Europe

Index of Patents Issued from the United States

Patent and Trademark Office

Logical Foundations of Mathematics and

Computational Complexity

Tenth Scandinavian Conference on Artificial Intelligence

This book constitutes the refereed proceedings of the 8th International Workshop on Self-Organizing Maps, WSOM 2011, held in Espoo, Finland, in June 2011. The 36 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on plenaries; financial and societal applications; theory and methodology; applications of data mining and analysis; language processing and document analysis; and visualization and image processing.

35th European Conference on IR Research, ECIR 2013, Moscow, Russia, March 24-27, 2013, Proceedings