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Given the wide-ranging implications for global competition, domestic political systems and daily life, US policymakers must prepare for the impacts of new artificial intelligence (AI)-related technologies. Anticipating AI's impacts on the global order requires US policy makers' awareness of certain key aspects of the AI-related technologies--and how those technologies will interact with the rapidly changing global system of human societies. One area that has received little in-depth examination to date is how AI-related technologies could affect countries' domestic political systems--whether authoritarian, liberal democratic, or a hybrid of the two--and how they might impact global competition between different regimes. This work highlights several key areas where AI-related technologies have clear implications for globally integrated strategic planning and requirements. Learn how easy it is to apply sophisticated statistical and machine learning methods to real-world problems when you build on top of the Google Cloud Platform (GCP). This hands-on guide shows developers entering the data science field how to implement an end-to-end data pipeline, using statistical and machine learning methods and tools on GCP. Through the course of the book, you'll work through a sample business decision by employing a variety of data science approaches. Follow along by implementing these statistical and machine learning solutions in your own project on GCP, and discover how this platform provides a transformative and more collaborative way of doing data science. You'll learn how to: Automate and schedule data ingest, using an App Engine application Create and

populate a dashboard in Google Data Studio Build a real-time analysis pipeline to carry out streaming analytics Conduct interactive data exploration with Google BigQuery Create a Bayesian model on a Cloud Dataproc cluster Build a logistic regression machine-learning model with Spark Compute time-aggregate features with a Cloud Dataflow pipeline Create a high-performing prediction model with TensorFlow Use your deployed model as a microservice you can access from both batch and real-time pipelines This must-have manual provides detailed solutions to all of the 200+ exercises in Dickson, Hardy and Waters' Actuarial Mathematics for Life Contingent Risks, Second Edition. This groundbreaking text on the modern mathematics of life insurance is required reading for the Society of Actuaries' Exam MLC and also provides a solid preparation for the life contingencies material of the UK actuarial profession's exam CT5. Beyond the professional examinations, the textbook and solutions manual offer readers the opportunity to develop insight and understanding, and also offer practical advice for solving problems using straightforward, intuitive numerical methods. Companion spreadsheets illustrating these techniques are available for free download. Cure Models: Methods, Applications and Implementation is the first book in the last 25 years that provides a comprehensive and systematic introduction to the basics of modern cure models, including estimation, inference, and software. This book is useful for statistical researchers and graduate students, and practitioners in other disciplines to have a thorough review of modern cure model methodology and to seek appropriate cure models in applications. The prerequisites of this book include some basic knowledge of statistical modeling, survival models, and R and SAS for data analysis. The book features real-world examples from clinical trials and population-based studies and a detailed introduction to R packages, SAS macros, and WinBUGS programs to fit some cure models. The main topics covered include the foundation of statistical estimation and inference of cure models for independent and right-censored survival data, cure modeling for multivariate, recurrent-event, and competing-risks survival data, and joint modeling with longitudinal data, statistical testing for the existence and difference of cure rates and sufficient follow-up, new developments in Bayesian cure models, applications of cure models in public health research and clinical trials. This open access book constitutes the refereed proceedings of the 15th International Conference on Semantic Systems, SEMANTiCS 2019, held in Karlsruhe, Germany, in September 2019. The 20 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 88 submissions. They cover topics such as: web semantics and linked (open) data; machine learning and deep learning techniques; semantic information management and knowledge integration; terminology, thesaurus and ontology management; data mining and knowledge discovery; semantics in blockchain and distributed ledger technologies. The first book devoted exclusively to the subject, Platelet Rich Fibrin in Regenerative Dentistry offers comprehensive, evidence-based coverage of the biological basis and clinical applications of PRF in dentistry. Co-edited by a leading researcher in tissue regeneration and the inventor of the PRF technique, it brings together original contributions from expert international researchers and clinicians. Chapters cover the biological foundation of PRF before addressing specific uses of the technology within clinical dentistry. Topics describe the use of PRF in many dental applications, including extraction socket management, sinus lifting procedures, root coverage, periodontal regeneration, soft tissue healing around implants, guided bone regeneration, and facial esthetics. The text is supplemented with color photographs and explanatory illustrations throughout. Platelet Rich Fibrin in Regenerative Dentistry: Biological Background and Clinical Indications is an indispensable professional resource for periodontists, oral surgeons and oral and maxillofacial surgeons, as well as general dentists who use PRF or are interested in introducing it into their practices. It is also an excellent reference for undergraduate and postgraduate dental students. This book makes available original ballistics technology from around the world on a wide variety of weapons and their effects, including the design and trajectory/stability control of dozens of projectiles ranging from shells to missiles. The book's authors discuss the efficacy and development of propellants, munitions, and igniters and offer new approaches for modeling and testing. Also investigated in Volume 1 is gradient printing of energetic materials, and mechanical behavior of multiple types of explosives. Volume 2 offers research on impact and penetration data from projectile effects on surfaces ranging from natural phenomena such as water, to metallic plating and material-engineered armors. Recent advances in reactive fragments, which provide enhanced terminal effects, are presented. Detailed analysis of warhead mechanisms such as the formation and terminal effects of shaped charge jets are reported. Papers in these volumes were presented at a conference jointly organized and supported by the Aeronautical Society of India, Hyderabad Branch, India, and the International Ballistics Society. "Tobacco has been pervasive in China almost since its introduction from the Americas in the mid-sixteenth century. One-third of the world's smokers--over 350 million--now live in China, and they account for 25 percent of worldwide smoking-related deaths. This book examines the deep roots of China's contemporary "cigarette culture" and smoking epidemic and provides one of the first comprehensive histories of Chinese consumption in global and comparative perspective"--Publisher's description. This book contains a manual for high schools, colleges, and graduate programs focusing on teaching chemistry to students with disabilities. Contents include: (1) "Disability Laws and Services"; (2) "In the Classroom"; (3) "Testing and Evaluation"; (4) "Assistive Technology and Accessible Computing"; (5) "In the Laboratory"; (6) "Mentoring and Advocacy: Ensuring Successful Transitions to Higher Education and Employment"; and (7) "Universal Design: Accessibility for Everyone". (Contains 135 references.) (YDS). "In this book, Paulo Freire's culture circles cross linguistic, cultural, and socioeconomic borders to work across contexts in the U.S. (early education, pre-service and in-service teacher education) and in Brazil (adult education). Freire, Teaching, and Learning makes culture circles accessible to those seeking to embrace equity and democracy through everyday educational practices." --Book Jacket. The economic analysis of the digital economy has been a rapidly developing research area for more than a decade. Through authoritative examination by leading scholars, this Handbook takes a closer look at particular industries, business practices, and policy issues associated with the digital industry. The volume offers an up-to-date account of key topics, discusses open questions, and provides guidance for future research. It offers a blend of theoretical and empirical works that are central to understanding the digital economy. The chapters are presented in four sections, corresponding with four broad themes: 1) infrastructure, standards, and platforms; 2) the transformation of selling, encompassing both the transformation of traditional selling and new, widespread application of tools such as auctions; 3) user-generated content; and 4) threats in the new digital environment. The first section covers infrastructure, standards, and various platform industries that rely heavily on recent developments in electronic data storage and transmission, including software, video games, payment systems, mobile telecommunications, and B2B commerce. The second section takes account of the reduced costs of online retailing that threatens offline retailers, widespread availability of information as it affects pricing and advertising, digital technology as it allows the widespread employment of novel price and non-price strategies (bundling, price discrimination), and auctions, as well as better tar. The third section addresses the emergent phenomenon of user-generated content on the Internet, including the functioning of social networks and open source. Finally, the fourth section discusses threats arising from digitization and the Internet, namely digital piracy, privacy and internet security concerns. Bioceramics play an important role in repairing and regenerating defective or damaged bone. Annually, more than 500,000 bone graft procedures are performed in the United States and approximately 2.2 million are conducted worldwide. Advanced Bioactive Inorganic Materials for Bone Regeneration and Drug Delivery reviews the latest advances in the field of bioceramics. The book summarizes innovative concepts, bioceramic design, and methods for material synthesis and drug delivery. Offering guidance for biomedical engineering researchers and material scientists, the book explores: Novel mesoporous bioactive glasses and silicate-based ceramics for bone regeneration and drug delivery Bioactive silicate ceramics, including their mechanical properties, interaction with bone-forming cells, and in vivo osteogenesis and angiogenesis Silica nanospheres with a core-shell structure and their specific properties for controllable drug delivery The 3D-printing technique to prepare advanced bioceramic scaffolds for bone tissue engineering applications—including the preparation, mechanical strength, and biological properties of 3D-printed porous scaffolds of calcium phosphate cement and silicate bioceramics Biomimetic preparation and controllable crystal growth and biomineralization of bioceramics Inorganic and organic composite materials and their unique

biological, electrical, and mechanical properties that enable the design of excellent bone regeneration and gene delivery systems A comprehensive survey of the research progress of bioceramics and their applications in bone repair and regeneration, this volume is designed to enhance study and career development for those in this field and to facilitate further research and opportunities for new solutions. Learn to program SAS by example! Learning SAS by Example, A Programmer's Guide, Second Edition, teaches SAS programming from very basic concepts to more advanced topics. Because most programmers prefer examples rather than reference-type syntax, this book uses short examples to explain each topic. The second edition has brought this classic book on SAS programming up to the latest SAS version, with new chapters that cover topics such as PROC SGPLOT and Perl regular expressions. This book belongs on the shelf (or e-book reader) of anyone who programs in SAS, from those with little programming experience who want to learn SAS to intermediate and even advanced SAS programmers who want to learn new techniques or identify new ways to accomplish existing tasks. In an instructive and conversational tone, author Ron Cody clearly explains each programming technique and then illustrates it with one or more real-life examples, followed by a detailed description of how the program works. The text is divided into four major sections: Getting Started, DATA Step Processing, Presenting and Summarizing Your Data, and Advanced Topics. Subjects addressed include Reading data from external sources Learning details of DATA step programming Subsetting and combining SAS data sets Understanding SAS functions and working with arrays Creating reports with PROC REPORT and PROC TABULATE Getting started with the SAS macro language Leveraging PROC SQL Generating high-quality graphics Using advanced features of user-defined formats and informats Restructuring SAS data sets Working with multiple observations per subject Getting started with Perl regular expressions You can test your knowledge and hone your skills by solving the problems at the end of each chapter. This two-volume set, LNAI 9077 + 9078, constitutes the refereed proceedings of the 19th Pacific-Asia Conference on Advances in Knowledge Discovery and Data Mining, PAKDD 2015, held in Ho Chi Minh City, Vietnam, in May 2015. The proceedings contain 117 papers carefully reviewed and selected from 405 submissions. They have been organized in topical sections named: social networks and social media; classification; machine learning; applications; novel methods and algorithms; opinion mining and sentiment analysis; clustering; outlier and anomaly detection; mining uncertain and imprecise data; mining temporal and spatial data; feature extraction and selection; mining heterogeneous, high-dimensional, and sequential data; entity resolution and topic-modeling; itemset and high-performance data mining; and recommendations. Break through the hype and learn how to extract actionable intelligence from the flood of IoT data About This Book Make better business decisions and acquire greater control of your IoT infrastructure Learn techniques to solve unique problems associated with IoT and examine and analyze data from your IoT devices Uncover the business potential generated by data from IoT devices and bring down business costs Who This Book Is For This book targets developers, IoT professionals, and those in the field of data science who are trying to solve business problems through IoT devices and would like to analyze IoT data. IoT enthusiasts, managers, and entrepreneurs who would like to make the most of IoT will find this equally useful. A prior knowledge of IoT would be helpful but is not necessary. Some prior programming experience would be useful What You Will Learn Overcome the challenges IoT data brings to analytics Understand the variety of transmission protocols for IoT along with their strengths and weaknesses Learn how data flows from the IoT device to the final data set Develop techniques to wring value from IoT data Apply geospatial analytics to IoT data Use machine learning as a predictive method on IoT data Implement best strategies to get the most from IoT analytics Master the economics of IoT analytics in order to optimize business value In Detail We start with the perplexing task of extracting value from huge amounts of barely intelligible data. The data takes a convoluted route just to be on the servers for analysis, but insights can emerge through visualization and statistical modeling techniques. You will learn to extract value from IoT big data using multiple analytic techniques. Next we review how IoT devices generate data and how the information travels over networks. You'll get to know strategies to collect and store the data to optimize the potential for analytics, and strategies to handle data quality concerns. Cloud resources are a great match for IoT analytics, so Amazon Web Services, Microsoft Azure, and PTC ThingWorx are reviewed in detail next. Geospatial analytics is then introduced as a way to leverage location information. Combining IoT data with environmental data is also discussed as a way to enhance predictive capability. We'll also review the economics of IoT analytics and you'll discover ways to optimize business value. By the end of the book, you'll know how to handle scale for both data storage and analytics, how Apache Spark can be leveraged to handle scalability, and how R and Python can be used for analytic modeling. Style and approach This book follows a step-by-step, practical approach to combine the power of analytics and IoT and help you get results quickly Paper Based Sensors, Volume 89, the latest release in this comprehensive series that gathers the most important issues relating to the design and application of these cost-effective devices used in many industries, including health and environment diagnostics, safety and security, chemistry, optics, electrochemistry, nanoscience and nanotechnologies, presents the latest updates in the field. Chapters in this new release include Exploring paper as a substrate for electrochemical micro-devices, Paper-based sensors for application in biological compound detection, Printed paper-based (bio)sensors: design, fabrication and applications, Paper-based electrochemical sensing devices, Multifarious aspects of electrochemical paper-based (bio)sensors, Paper Based Biosensors for Clinical and Biomedical Applications, and more. Provides updates on the latest design in paper-based sensors using various nano and micromaterials Includes optical/electrical-based detection modes integrated within paper-based platforms Covers applications of paper-based platforms in diagnostics and other industries This book explores how new media technologies such as e-mails, online forums, blogs and social networking sites have helped shape new forms of public spheres. Offering new readings of Jürgen Habermas's notion of the public sphere, scholars from diverse disciplines interrogate the power and possibilities of new media in creating and disseminating public information; changing human communication at the interpersonal, institutional and societal levels; and affecting our self-fashioning as private and public individuals. Beginning with philosophical approaches to the subject, the book goes on to explore the innovative deployment of new media in areas as diverse as politics, social activism, piracy, sexuality, ethnic identity and education. The book will immensely interest those in media, culture and gender studies, philosophy, political science, sociology and anthropology. "It is difficult to define the genre of the book. It is not a problem book, nor a textbook, nor a 'book for reading about mathematics'. It is most of all reminiscent of a good lecture course, from which a thoughtful student comes away with more than was actually spoken about in the lectures." --from the Preface by A. S. Merkurjev If you are acquainted with mathematics at least to the extent of a standard high school curriculum and like it enough to want to learn more, and if, in addition, you are prepared to do some serious work, then you should start studying this book. An understanding of the material of the book requires neither a developed ability to reason abstractly nor skill in using the refined techniques of mathematical analysis. In each chapter elementary problems are considered, accompanied by theoretical material directly related to them. There are over 300 problems in the book, most of which are intended to be solved by the reader. In those places in the book where it is natural to introduce concepts outside the high school syllabus, the corresponding definitions are given with examples. And in order to bring out the meaning of such concepts clearly, appropriate (but not too many) theorems are proved concerning them. Unfortunately, what is sometimes studied at school under the name "mathematics" resembles real mathematics not any closer than a plucked flower gathering dust in a herbarium or pressed between the pages of a book resembles that same flower in the meadow besprinkled with dewdrops sparkling in the light of the rising sun. This comprehensive book presents the theoretical principles, current applications and latest research developments in the field of luminescent lanthanide complexes; a rapidly developing area of research which is attracting increasing interest amongst the scientific community. Luminescence of Lanthanide Ions in Coordination Compounds and Nanomaterials begins with an introduction to the basic theoretical and practical aspects of lanthanide ion luminescence, and the spectroscopic techniques used to evaluate the efficiency of luminescence. Subsequent chapters introduce a variety of different applications including: • Circularly polarized luminescence • Luminescence bioimaging with

lanthanide complexes • Two-photon absorption of lanthanide complexes • Chemosensors • Upconversion luminescence • Excitation spectroscopy • Heterometallic complexes containing lanthanides Each chapter presents a detailed introduction to the application, followed by a description of experimental techniques specific to the area and an extensive review of recent literature. This book is a valuable introduction to the literature for scientists new to the field, as well as providing the more experienced researcher with a comprehensive resource covering the most relevant information in the field; a 'one stop shop' for all key references.

Women's tanci, or "plucking rhymes," are chantable narratives written by upper-class educated women from seventeenth-century to early twentieth-century China. *Writing Gender in Early Modern Chinese* Women's Tanci Fiction offers a timely study on early modern Chinese women's representations of gender, nation, and political activism in their tanci works before and after the Taiping Rebellion (1850 to 1864), as well as their depictions of warfare and social unrest. Women tanci authors' redefinition of female exemplarity within the Confucian orthodox discourses of virtue, talent, chastity, and political integrity could be burgeoning expressions of female exceptionalism and could have foreshadowed protofeminist ideals of heroism. They establish a realistic tenor in affirming feminine domestic authority, and open up spaces for discussions of "womanly becoming," female exceptionalism, and shifting family power structures. The vernacular mode underlying these texts yields productive possibilities of gendered self-representations, bodily valences, and dynamic performances of sexual roles. The result is a vernacular discursive frame that enables women's appropriation and refashioning of orthodox moral values as means of self-affirmation and self-realization. Validations of women's political activism and loyalism to the nation attest to tanci as a premium vehicle for disseminating progressive social incentives to popular audiences. Women's tanci marks early modern writers' endeavors to carve out a space of feminine becoming, a discursive arena of feminine appropriation, reinvention, and boundary-crossings. In this light, women's tanci portrays gendered mobility through depictions of a heroine's voyages or social ascent, and entails a forward-moving historical progression toward a more autonomous and vested model of feminine subjectivity.

Lecture Notes in Population Genetics By Kent E. Holsinger This book describes the fundamental concepts, the latest developments and the outlook of the field of nanozymes (i.e., the catalytic nanomaterials with enzymatic characteristics). As one of today's most exciting fields, nanozyme research lies at the interface of chemistry, biology, materials science and nanotechnology. Each of the book's six chapters explores advances in nanozymes. Following an introduction to the rise of nanozymes research in the course of research on natural enzymes and artificial enzymes in Chapter 1, Chapters 2 through 5 discuss different nanomaterials used to mimic various natural enzymes, from carbon-based and metal-based nanomaterials to metal oxide-based nanomaterials and other nanomaterials. In each of these chapters, the nanomaterials' enzyme mimetic activities, catalytic mechanisms and key applications are covered. In closing, Chapter 6 addresses the current challenges and outlines further directions for nanozymes. Presenting extensive information on nanozymes and supplemented with a wealth of color illustrations and tables, the book offers an ideal guide for readers from disparate areas, including analytical chemistry, materials science, nanoscience and nanotechnology, biomedical and clinical engineering, environmental science and engineering, green chemistry, and novel catalysis. Clear instruction in derivatives, integrals, exponential functions, differential equations, and much more—made entertaining in the form of a fantasy novel. Covers all essential first-year calculus topics. Books in the Easy Way Series are ideal students self-help supplements. They offer valuable overviews of course work and extra help with difficult subject areas. This book is the first exclusively devoted to the systematic synthesis of diagnostic test accuracy studies. It builds upon the major recent developments in reporting standards, search methods, and, in particular, statistical tools specifically devoted to diagnostic studies. In addition, it borrows extensively from the latest advances in systematic reviews and meta-analyses of intervention studies. After a section dedicated to methods for designing reviews, synthesizing evidence and appraising inconsistency in research, the application of these approaches is demonstrated in the context of case studies from various clinical disciplines. Diagnosis is central in medical decision-making, and in many other fields of human endeavor, such as education and psychology. The plurality of sources of evidence on diagnostic test accuracy poses a huge challenge for practitioners and researchers, as do the multiple dimensions of evidence validity, which include sensitivity, specificity, predictive values, and likelihood ratios. This book offers an invaluable resource for anyone aiming to improve decision-making processes in diagnosis, classification or risk prognostication, from epidemiologists to biostatisticians, radiologists, laboratory physicians and graduate students, as any physician interested in refining his methodological skills in clinical diagnosis. A strong reference on the problem of signal and speech enhancement, describing the newest developments in this exciting field. The general emphasis is on noise reduction, because of the large number of applications that can benefit from this technology. How does the brain represent number and make mathematical calculations? What underlies the development of numerical and mathematical abilities? What factors affect the learning of numerical concepts and skills? What are the biological bases of number knowledge? Do humans and other animals share similar numerical representations and processes? What underlies numerical and mathematical disabilities and disorders, and what is the prognosis for rehabilitation? These questions are the domain of mathematical cognition, the field of research concerned with the cognitive and neurological processes that underlie numerical and mathematical abilities. The *Handbook of Mathematical Cognition* is a collection of 27 essays by leading researchers that provides a comprehensive review of this important research field.

Climate and anthropogenic changes impact the conditions of erosion and sediment transport in rivers. Rainfall variability and, in many places, the increase of rainfall intensity have a direct impact on rainfall erosivity. Increasing changes in demography have led to the acceleration of land cover changes in natural areas, as well as in cultivated areas, and, sometimes, in degraded areas and desertified landscapes. These anthropogenized landscapes are more sensitive to erosion. On the other hand, the increase in the number of dams in watersheds traps a great portion of sediment fluxes, which do not reach the sea in the same quality, with consequences on coastal geomorphodynamics. This book is dedicated to studies on sediment fluxes from continental areas to coastal areas, as well as observation, modeling, and impact analysis at different scales from watershed slopes to the outputs of large river basins. This book is concentrated on a number of keywords: "erosion" and "sediment transport", "model" and "practice", and "change". The keywords are briefly discussed with respect to the relevant literature. The contributions in this book address observations and models based on laboratory and field data, allowing researchers to make use of such resources in practice under changing conditions. This document is one of two evidence-based cornerstones of the World Health Organization's (WHO) new initiative to develop and implement evidence-based guidelines for family planning. The first cornerstone, the *Medical eligibility criteria for contraceptive use* (third edition) published in 2004, provides guidance for who can use contraceptive methods safely. This document, the *Selected practice recommendations for contraceptive use* (second edition), provides guidance for how to use contraceptive methods safely and effectively once they are deemed to be medically appropriate. The recommendations contained in this document are the product of a process that culminated in an expert Working Group meeting held at the World Health Organization, Geneva, 13-16 April 2004. First Published in 1987. Routledge is an imprint of Taylor & Francis, an informa company.

Enlightenment in Dispute is the first comprehensive study of the revival of Chan Buddhism in seventeenth-century China. Focusing on the evolution of a series of controversies about Chan enlightenment, Jiang Wu describes the process by which Chan reemerged as the most prominent Buddhist establishment of the time. He investigates the development of Chan Buddhism in the seventeenth century, focusing on controversies involving issues such as correct practice and lines of lineage. In this way, he shows how the Chan revival reshaped Chinese Buddhism in late imperial China. Situating these controversies alongside major events of the fateful Ming-Qing transition, Wu shows how the rise and fall of Chan Buddhism was conditioned by social changes in the seventeenth century.

Quick and Easy Access to Key Elements of Documentation Includes worked examples across a wide variety of applications, tasks, and graphics A unique companion for statistical coders, *Using SAS for Data Management, Statistical Analysis, and Graphics* presents an easy way to learn how to perform an analytical task in SAS, without having to navigate through the extensive, idiosyncratic, and sometimes unwieldy software

documentation. Organized by short, clear descriptive entries, the book covers many common tasks, such as data management, descriptive summaries, inferential procedures, regression analysis, multivariate methods, and the creation of graphics. Through the extensive indexing, cross-referencing, and worked examples in this text, users can directly find and implement the material they need. The text includes convenient indices organized by topic and SAS syntax. Demonstrating the SAS code in action and facilitating exploration, the authors present example analyses that employ a single data set from the HELP study. They also provide several case studies of more complex applications. Data sets and code are available for download on the book's website. Helping to improve your analytical skills, this book lucidly summarizes the features of SAS most often used by statistical analysts. New users of SAS will find the simple approach easy to understand while more expert SAS programmers will appreciate the invaluable source of task-oriented information. Introduces readers to core algorithmic techniques for next-generation sequencing (NGS) data analysis and discusses a wide range of computational techniques and applications This book provides an in-depth survey of some of the recent developments in NGS and discusses mathematical and computational challenges in various application areas of NGS technologies. The 18 chapters featured in this book have been authored by bioinformatics experts and represent the latest work in leading labs actively contributing to the fast-growing field of NGS. The book is divided into four parts: Part I focuses on computing and experimental infrastructure for NGS analysis, including chapters on cloud computing, modular pipelines for metabolic pathway reconstruction, pooling strategies for massive viral sequencing, and high-fidelity sequencing protocols. Part II concentrates on analysis of DNA sequencing data, covering the classic scaffolding problem, detection of genomic variants, including insertions and deletions, and analysis of DNA methylation sequencing data. Part III is devoted to analysis of RNA-seq data. This part discusses algorithms and compares software tools for transcriptome assembly along with methods for detection of alternative splicing and tools for transcriptome quantification and differential expression analysis. Part IV explores computational tools for NGS applications in microbiomics, including a discussion on error correction of NGS reads from viral populations, methods for viral quasispecies reconstruction, and a survey of state-of-the-art methods and future trends in microbiome analysis. Computational Methods for Next Generation Sequencing Data Analysis: Reviews computational techniques such as new combinatorial optimization methods, data structures, high performance computing, machine learning, and inference algorithms Discusses the mathematical and computational challenges in NGS technologies Covers NGS error correction, de novo genome transcriptome assembly, variant detection from NGS reads, and more This text is a reference for biomedical professionals interested in expanding their knowledge of computational techniques for NGS data analysis. The book is also useful for graduate and post-graduate students in bioinformatics.

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