

Online Library Augmented Data Discovery Resources 2018 Pdf Free Copy

State of Discovery The Role of the Electronic Resources Librarian Web-Scale Discovery Services Resource Discovery for the Twenty-First Century Library Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery Model Rules of Professional Conduct Materials Discovery and Design Organizing Library Collections Citizen Science The Electronic Resources Troubleshooting Guide Drug Discovery in Japan Evaluation of Novel Approaches to Software Engineering Foundations of Library and Information Science Actinobacteria in Special and Extreme Habitats: Diversity, Function Roles and Environmental Adaptations, Second Edition Governance of The World ' s Mineral Resources Arctic Mineral Resources Production Research Mining for Change Service-Oriented Computing Polypharmacology Medical and Biological Image Analysis International Arbitration in Latin America Dark Trading Machine Learning and Systems Biology in Genomics and Health The Cohen Curricula Handbook of Research on Artificial Intelligence in Human Resource Management Encyclopedia of Mathematical Geosciences Marine Biotechnology, Revealing an Ocean of Opportunities Does Energy Cause Ethnic War? East Mediterranean and Caspian Sea Natural Gas and Regional Conflicts Access and Benefit Sharing of Genetic Resources, Information and Traditional Knowledge Learning and Innovation in Natural Resource Based Industries Canadian Almanac and Directory 2021 Data-Driven Process Discovery and Analysis Big Data Mining for Climate Change Wild Plant Genetic Resources: A Hope for Tomorrow Eco-Friendly Energy Processes and Technologies for Achieving Sustainable Development Agricultural, Forestry and Bioindustry Biotechnology and Biodiscovery The 'Fiscal Presource Curse': Giant Discoveries and Debt Sustainability Advances in SIoT (Social Internet of Things) Physics of Energy Sources

This cutting-edge Handbook offers a comprehensive introduction to the emerging research field of artificial intelligence (AI) in human resource management (HRM). Broadly mapping AI fields relevant for HR, it not only considers the more well-known areas of machine learning and natural language processing, but also lesser-known fields such as affective computing and robotic process automation. The Role of the Electronic Resources Librarian focuses on longstanding hurdles to the transition of libraries from print collections, to online information services, all from an Electronic Resources Librarian (ERL) perspective. Problems covered include cost containment for electronic serials, web design, discovery, customer service, efficiency, and adapting organizations to the needs of contemporary users. The title considers the historical development of the ERL role, how the position emerged in North America in the 1990s, how it is represented within the organizational structure of academic libraries, and how the ERL role maps to technology, information services, and professional identity trends. Explores the changing role of the Electronic Resources Librarian (ERL) Identifies long-term trends in Electronic Resource Management Recommends best practices for the ERL role in modern libraries Contextualizes the current ERL role in historical and current developments Maps the ERL role to trends in technology, information services and the shifting professional identity of academic librarians This book constitutes selected, revised and extended papers of the 15th International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE 2020, held in virtual format, in May 2020. The 19 revised full papers presented were carefully reviewed and selected from 96 submissions. The papers included in this book contribute to the understanding of relevant trends of current research on novel approaches to software engineering for the development and maintenance of systems and applications, specically with relation to: model-driven software engineering, requirements engineering, empirical software engineering, service-oriented software engineering, business process management and engineering, knowledge management and engineering, reverse software engineering, software process improvement, software change and

configuration management, software metrics, software patterns and refactoring, application integration, software architecture, cloud computing, and formal methods. The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

Written for beginning library science students, this book introduces the theory and practice of organizing library collections in a clear, straightforward, and understandable way. It explains why and how libraries organize their collections, and how theory and practice work together to help library users. The Encyclopedia of Mathematical Geosciences is a complete and authoritative reference work. It provides concise explanation on each term that is related to Mathematical Geosciences. Over 300 international scientists, each expert in their specialties, have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence, Big Data, Compositional Data Analysis, Geomathematics, Geostatistics, Geographical Information Science, Mathematical Morphology, Mathematical Petrology, Multifractals, Multiple Point Statistics, Spatial Data Science, Spatial Statistics, and Stochastic Process Modeling. Each topic incorporates cross-referencing to related articles, and also has its own reference list to lead the reader to essential articles within the published literature. The entries are arranged alphabetically, for easy access, and the subject and author indices are comprehensive and extensive. Food security, crop protection, biodiversity, and human and environmental health are among the main needs and concerns of society. Modern biotechnology and life sciences represent a constantly evolving area that is key for the rational use of natural resources – resources that in turn are indispensable for societal development. This book features the outcomes of the IV International Biotechnology and Biodiversity Congress, held in Guayaquil, Ecuador, 2018. It includes extensive reviews of the trends in agricultural and forestry biotechnology, molecules and materials biodiscovery, ethnomedicine, environmental impact and bioindustry research, describing many of these topics from the Latin America perspective and showing how the biodiversity and ancient knowledge of these countries are vital for worldwide sustainable development. This book addresses the current status, challenges and future directions of data-driven materials discovery and design. It presents the analysis and learning from data as a key theme in many science and cyber related applications. The challenging open questions as well as future directions in the application of data science to materials problems are sketched. Computational and experimental facilities today generate vast amounts of data at an unprecedented rate. The book gives guidance to discover new knowledge that enables materials innovation to address grand challenges in energy, environment and security, the clearer link needed between the data from these facilities and the theory and underlying science. The role of inference and optimization methods in distilling the data and constraining predictions using insights and results from theory is key to achieving the desired goals of real time analysis and feedback. Thus, the importance of this book lies in emphasizing that the full value of knowledge driven discovery using data can only be realized by integrating statistical and information sciences with materials science, which is increasingly dependent on high throughput and large scale computational and experimental data gathering efforts. This is especially the case as we enter a new era of big data in materials science with the planning of future experimental facilities such as the Linac Coherent Light Source at Stanford (LCLS-II), the European X-ray Free Electron Laser (XFEL) and MaRIE (Matter Radiation in Extremes), the signature concept facility from Los Alamos National Laboratory. These facilities are expected to generate hundreds of terabytes to several petabytes of in situ spatially and temporally resolved data per sample. The questions that then arise include how we can learn from the data to accelerate the processing and analysis of reconstructed microstructure, rapidly map spatially resolved properties from high

throughput data, devise diagnostics for pattern detection, and guide experiments towards desired targeted properties. The authors are an interdisciplinary group of leading experts who bring the excitement of the nascent and rapidly emerging field of materials informatics to the reader. This book discusses the application of machine learning in genomics. Machine Learning offers ample opportunities for Big Data to be assimilated and comprehended effectively using different frameworks. Stratification, diagnosis, classification and survival predictions encompass the different health care regimes representing unique challenges for data pre-processing, model training, refinement of the systems with clinical implications. The book discusses different models for in-depth analysis of different conditions. Machine Learning techniques have revolutionized genomic analysis. Different chapters of the book describe the role of Artificial Intelligence in clinical and genomic diagnostics. It discusses how systems biology is exploited in identifying the genetic markers for drug discovery and disease identification. Myriad number of diseases whether be infectious, metabolic, cancer can be dealt in effectively which combines the different omics data for precision medicine. Major breakthroughs in the field would help reflect more new innovations which are at their pinnacle stage. This book is useful for researchers in the fields of genomics, genetics, computational biology and bioinformatics. Actinobacteria are well-known producers of a vast array of secondary metabolites. Compared with actinobacteria from temperate habitats, the community structure, diversity, biological activities and mechanisms of environmental adaptation of those actinobacteria in special and extreme environments are relatively unstudied and unclear, and their functions and utilization are even less reported. These actinobacteria are potential new sources of novel natural products and functions for exploitation in medicine, agriculture, and industry. Recent advances in cultivation, DNA sequencing technologies and -omics methods have greatly contributed to the rapid advancement of our understanding of microbial diversity, taxonomy, function and they interactions with environment. Following the success of the Research Topic “ Actinobacteria in special and extreme habitats: diversity, functional roles and environmental adaptations ” organized in 2015, we are happy to launch a second edition. This Research Topic second edition, comprising reviews and original articles, highlights recent discoveries on rare actinobacterial diversity, phylogenomics, biological compounds, ecological function and environmental adaptations of actinobacteria in special and extreme habitats; and broadens our knowledge of actinobacterial diversity and their ecophysiological function. Discovery is central to academic activities at all levels and is a major focus for libraries and museums. Of all the parts of modern library provision, discovery services are the most clearly affected by developments in IT, from databases to search engines to linked data to machine learning. It is crucial to the relationship between libraries and their communities. This book will help its readers learn how to adapt in a fast changing area to continue to provide a high level of service. Resource Discovery for the Twenty-First Century Library contains a range of contributions analysing the ways in which libraries are tackling the challenges facing them in discovery in the (post)-Google era. Chapters are written by experts, both global and local – describing specific areas of discovery and local implementations and ideas. The book will help with enhancing discovery both inbound – making locally held resources globally discoverable, and outbound – making global resources locally discoverable, in ways which are relevant to your user community. Content covered includes: · a survey of what resource discovery is today · case studies from around the world of interesting approaches to discovery · analysis of how users approach discovery · how to understand and make the best use of Internet search engines · using limited resources to help users find collections · linked open data and discovery · the future of discovery. This book will be useful for subject librarians and others who give direct support to library users, digital library technicians, managers, staff with responsibility for managing electronic resources, metadata and discovery specialists, trainers and user education specialists. It will also be of use to curators and others who give direct support to researchers, managers of digitisation and cataloguing products, IT staff, trainers and user education specialists. In its newest edition, Foundations of Library and Information Science remains the field's essential resource. This book constitutes revised selected papers from the 8th and 9th IFIP

WG 2.6 International Symposium on Data-Driven Process Discovery and Analysis, SIMPDA 2018, held in Seville, Spain, on December 13–14, 2018, and SIMPDA 2019, held in Bled, Slovenia, on September 8, 2019. From 16 submissions received for SIMPDA 2018 and 9 submissions received for SIMPDA 2019, 3 papers each were carefully reviewed and selected for presentation in this volume. They cover theoretical issues related to process representation, discovery, and analysis or provide practical and operational examples of their application. The Arctic zone of the Earth is a major source of mineral and other natural resources for the future development of science and technology. It contains a large supply of strategic mineral deposits, including rare earths, copper, phosphorus, niobium, platinum-group elements, and other critical metals. The continued melting of the sea ice due to climate change makes these resources more accessible than ever before. However, the mineral exploration in the Arctic has always been a challenge due to the climatic restrictions, remote location, and vulnerability of Arctic ecosystems. This book covers a broad range of topics related to the problem of Arctic mineral resources, including geological, geochemical, and mineralogical aspects of their occurrence and formation; chemical technologies; and environmental and economic problems related to mineral exploration. The contributions can be tentatively classified into four major types: geodynamics and metallogeny, mineralogy and petrology, mineralogy and crystallography, and mining and chemical technologies associated with the exploration of mineral deposits and the use of raw materials for manufacturing new products. The book can be of interest for all those interested in Arctic issues and especially in Arctic mineral resources and associated problems of mineralogy, geology, geochemistry, and technology. This two-volume set presents selected and revised papers from the 10th International Conference of Production Research - Americas, ICPR-Americas 2020, held in Bahía Blanca, Argentina, in December 2020. Due to the COVID-19 pandemic the conference was held in a fully virtual format. The 41 full papers and 11 short papers were thoroughly reviewed and selected from 275 submissions. They are organized in topical sections on optimization; metaheuristics and algorithms; industry 4.0 and cyber-physical systems; smart city; intelligent systems and decision sciences; simulation; machine learning and big data. This paper investigates the dynamic impact of natural resource discoveries on government debt sustainability. We use a 'natural experiment' framework in which the timing of discoveries is treated as an exogenous source of within-country variation. We combine data on government debt, fiscal stress and debt distress episodes on a large panel of countries over 1970-2012, with a global repository of giant oil, gas, and mineral discoveries. We find strong and robust evidence of a 'fiscal presource curse', i.e., natural resources can jeopardize fiscal sustainability even before 'the first drop of oil is pumped'. Specifically, we find that giant discoveries, mostly of oil and gas, lead to permanently higher government debt and, eventually, debt distress episodes, specially in countries with weaker political institutions and governance. This evidence suggest that the curse can be mitigated and even prevented by pursuing prudent fiscal policies and borrowing strategies, strengthening fiscal governance, and implementing transparent and robust fiscal frameworks for resource management. This book constitutes the revised selected papers of the 16th Symposium and Summer School on Service-Oriented Computing, SummerSOC 2022, held in Hersonissos, Crete, Greece, in July 2022. The 8 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 25 submissions. They were organized in topical sections as follows: Advanced Application Architecture; Data Science and Applications; and Quantum Computing. Addressing the management of genetic resources, this book offers a new assessment of the contemporary Access and Benefit Sharing (ABS) regime. Debates about ABS have moved on. The initial focus on the legal obligations established by international agreements like the United Nations Convention on Biological Diversity and the form of obligations for collecting physical biological materials have now shifted into a far more complex series of disputes and challenges about the ways ABS should be implemented and enforced. These now cover a wide range of issues, including: digital sequence information, the repatriation of resources, technology transfer, traditional knowledge and cultural expressions, open access to information and knowledge, naming conventions, farmers' rights, new schemes for accessing pandemic viruses sharing DNA sequences, and so on. Drawing together perspectives from

an interdisciplinary range of leading and emerging international scholars, this book offers a new approach to the ABS landscape; as it breaks from the standard regulatory analyses in order to explore alternative solutions to the intractable issues for the Access and Benefit Sharing of genetic resources. Addressing these modern legal debates from a perspective that will appeal to both ABS scholars and those with broader legal concerns in the areas of intellectual property, food, governance, Indigenous issues, and so on, this book will be a useful resource for scholars and students as well as those in government and in international institutions working in relevant areas.

Web-Scale Discovery Services: Principles, Applications, Discovery Tools and Development Hypotheses summarizes and presents the state-of-the-art in WSDS. The title promotes a middle-way between finding the best tool for each particular need and the search for the most reliable systems. The title identifies basic theoretical problems and offers practical solutions for librarians. The volume offers a summary of ideas from around the world, giving a new perspective that is backed up by strong theory. Offering a vision for libraries, this book also allows archivists, museum specialists, computer scientists, commercial operators and interested users to deepen their culture and information literacy. The great number of information sources now available and the changing habits of web users has led to the development of Web Scale Discovery Services (WSDS). The goal of these systems and techniques is to make catalogues, databases, institutional repositories, Open Access archives and other databases searchable and discoverable through a single point of access. The diffusion of systems and connections between data disseminated by libraries and published by other institutions poses a challenge to understanding discovery in the modern library. Lays out the state-of-the-art in WSDS for contemporary libraries and institutions Presents an innovative take on information retrieval and digital document management Grounds thinking on a bibliographic basis, combining academic, practical and commercial aspects Offers a perspective on how WSDS and discovery tools are seen and used internationally Provides a version of culture and information literacy of relevance to a broad-range of cultural specialists This book analyzes the drug-discovery process in Japan, based on detailed case studies of 12 groups of 15 innovative drugs. It covers the first statin in the world up to the recent major breakthrough in cancer therapy, the recent immune checkpoint inhibitor, the scientific discovery for which a 2018 Nobel Prize in Physiology or Medicine was awarded to Prof. Tasuku Honjo, Kyoto University. The book shows the pervasive high uncertainty in drug discovery: frequent occurrences of unexpected difficulties, discontinuations, serendipities, and good luck, significantly because drug discovery starts when the underlying science is incomplete. Thus, there exist dynamic interactions between scientific progress and drug discovery. High uncertainty also makes the value of an entrepreneurial scientist high. Such scientists fill the knowledge gaps by absorbing external scientific progress and by relentless pursuit of possibilities through their own research, often including unauthorized research, to overcome crises. Further, high uncertainty and its resolution significantly characterize the evolution of competition in the drug industry. The patent system promotes innovation under high uncertainty not only by enhancing appropriability of R&D investment but also by facilitating the combination of knowledge and capabilities among different firms through disclosure. Understanding such a process significantly benefits the creation of innovation management and policy practices. A library user can't access an article. Your log in credentials won't work. In the realm of electronic resources everything runs smoothly—until suddenly, without warning, it doesn't. Invariably, systems will break down, but a trial and error approach to finding out what's wrong is highly inefficient. This hands-on guide from two expert ERM librarians walks you through the essentials of troubleshooting. It outlines a methodical process that will help you identify the source of a problem even when it's not obvious and take steps to reach a resolution. With the goal of developing a library-wide workflow in mind, this guide will teach you how to familiarize yourself with the components of electronic resources, using flowchart diagrams of common access chains such as discovery services, knowledge bases, research guides, and library services platforms; navigate the complete triage and troubleshooting workflow, illustrated through 14 in-depth examples; recognize the symptoms of common access disruptions; conduct efficient troubleshooting interviews; manage help tickets and design problem reports that

capture key information without overburdening the user; create publicly available help pages for problems originating with users' devices or computers; communicate with vendors and IT personnel for speedy resolutions, providing dozens of clear definitions of library and technology terms that will help you minimize confusion; and customize your own troubleshooting workflow chart for common use across departments and staff hierarchies.

Energy projects in Latin America are a major contributor to economic growth worldwide. This book is the first to offer a comprehensive, in-depth analysis of specific issues arising from energy and natural resources contracts and disputes in the region, covering a wide range of procedural, substantive, and socio-legal issues. The book also includes how states have shifted from passive business partners to more active controlling players. The book contains an extensive treatment and examination of the particularities of arbitration practice in Latin America, including arbitrability, public order, enforcement, and the complex public-private nature of energy transactions. Specialists experienced in resolving international energy and natural disputes throughout the region provide detailed analysis of such issues and topics, including: state-owned entities as co-investors or contracting parties; role of environmental law, indigenous rights and public participation; issues related to political changes, corruption, and quantification of damages; climate change, renewable energy, and the energy transition; force majeure, hardship, and price reopeners; arbitration in the electricity sector; take-or-pay contracts; recognition and enforcement of awards; tension between stabilization clauses and human rights; mediation as a method for dispute settlement in the energy and natural resources sector; and different comparative approaches taken by national courts in key Latin American jurisdictions. The book also delivers a clear explanation on the impact made to the arbitration process by Covid-19, emerging laws, changes of political circumstances, the economic global trends in the oil & gas market, the energy transition, and the rise of new technologies. This invaluable book will be welcomed by in-house lawyers, government officials, as well as academics and rest of the arbitration community involved in international arbitration with particular interest in the energy and natural resources sector.

Governance of the World's Mineral Resources: Beyond the Foreseeable Future provides in-depth information on the geological scarcity of mineral resources. The book demonstrates the urgent need to implement sustainable utilization of mineral resources, in order to ensure that these resources will be sufficiently available for future generations too. The availability of resources, especially for modern technologies, is an increasingly important issue. Some key mineral resources are so geologically scarce that their availability for future generations may not only become substantially less, but also much less affordable than for the current generation unless timely measures are taken. This book provides detailed data and calculations of the availability of mineral resources. The book elaborates on whether and how it is possible to keep providing sufficient mineral resources to a growing world population, and for how long. The book details also how and for how much time it will be possible for all countries, worldwide, to achieve and maintain service delivery of raw materials to their population at levels equivalent to those in developed countries in 2020. *Governance of the World's Mineral Resources: Beyond the Foreseeable Future* is therefore an important source of knowledge for postgraduates, academics and researchers in the fields of environmental science, sustainability, and geology, as well as anyone in the field of mining and economics who need to account for sustainable provision of mineral resources. Provides a thorough overview of all considerations related to a sustainable production rate of mineral resources

Comprehensively details scarce mineral resources and describes their applications, worldwide in-use stock increases, and sustainable production rates Covers all aspects of a sustainable production rate of mineral resources, detailing the current challenges and possible global solutions, both technically and from a policy point of view Includes detailed studies of thirteen different scarce mineral resources and extensive quantitative data from recent studies and in-depth research

The Caspian Sea and the Eastern Mediterranean are two regions with abundant energy resources. Their gas routes to Europe intersect and actors, exporters, pipeline owners and operators, transit states and downstream customers are connected to one another in a web of political and economic interdependencies. More significantly, these regions have been plagued by deep-seated ethnic conflicts and disputes: namely, the two oldest

registered in the United Nations (the Cyprus and the Arab-Israeli Conflicts), the Nagorno-Karabakh problem, the Syria War and numerous tensions in the Eastern Mediterranean, the Caspian Sea and the Balkan regions. This book investigates what impact these energy resources have had on the respective conflicts and disputes, as well as their influence on the power game between the EU and Russia. Rapid changes in technology and lifestyle have led to a dramatic increase in energy demand. Growing energy demand is the main cause of environmental pollution, but the efficient use of renewable resources and technologies for residential, commercial, industrial, and agricultural sectors offers the opportunity to diminish energy dependence, ensure efficiency and reliability, reduce pollutant emissions, and buoy national economies. Eco-friendly energy processes are the key to long-term sustainability. Eco-Friendly Energy Processes and Technologies for Achieving Sustainable Development is a collection of innovative research that identifies sustainability pillars such as environmental, technical, social, institutional, and economic disciplines and explores the longevity of these disciplines through a resource-oriented approach. Featuring coverage of a broad range of topics including environmental policy, corporate accountability, and urban planning, this book is ideally designed for policymakers, urban planners, engineers, advocates, researchers, academicians, and students. This book consists of papers on the recent progresses in the state of the art in natural computation, fuzzy systems and knowledge discovery. The book is useful for researchers, including professors, graduate students, as well as R & D staff in the industry, with a general interest in natural computation, fuzzy systems and knowledge discovery. The work printed in this book was presented at the 2020 16th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD 2020), held in Xi'an, China, from 19 to 21 December 2020. All papers were rigorously peer-reviewed by experts in the areas. For a growing number of countries in Africa the discovery and exploitation of natural resources is a great opportunity, but one accompanied by considerable risks. Countries dependent on oil, gas, and mining have tended to have weaker long-run growth, higher rates of poverty, and greater income inequality than less resource-abundant economies. For these resource producing economies relative prices make it more difficult to diversify into activities outside of the resource sector, limiting structural change. Mining for Change: Natural Resources and Industry in Africa presents research undertaken to understand how better management of the revenues and opportunities associated with natural resources can accelerate diversification and structural change in Africa. It begins with essays on managing the boom, the construction sector, and linking industry to the major issues that frame the question of how to use natural resources for structural change. It reports the main research results for five countries-Ghana, Mozambique, Uganda, Tanzania and Zambia. Each country study covers managing the boom, the construction sector, and linking industry to the resource. Mining for Change argues that good policy can make a difference and sets out ideas for policy change and widening the options for structural change. . An open access title available under the terms of a CC BY-NC-SA 3.0 IGO licence. There is a growing interest in unmet needs for the development of a new discipline in drug discovery and in university education on polypharmacology. However, there has not been a book with the comprehensive compilation of basic knowledge and advanced methodology that is needed. This book aims to meet the needs making Polypharmacology a new sub-discipline of Pharmacology, not only being a hot area of pharmacological research and education but also a new paradigm for drug discovery. It contains the contents covering the entire scope of Polypharmacology including systemic in-depth exposition of basic knowledge, novel concepts, innovative technologies, and translational and clinical applications by showcasing state-of-the-art strategies and step-by-step instructions of cutting-edge methods. The contents of this book targets broad readerships including scientists in pharmacology research and drug development, and university teachers and graduates in medical school or school of pharmacy. Big Data Mining for Climate Change addresses how to manage the vast amount of information available for analysis. Climate change and its environmental, economic and social consequences are widely recognized as the biggest, most interconnected problem facing humanity. There is a huge amount of potential information currently available...and it is growing exponentially. This book walks through the latest

research and how to navigate the resources available using big data applications. It is appropriate for scientists and advanced students studying climate change from a number of disciplines, including the atmospheric sciences, oceanic sciences, geography, environment sciences, ecology, energy, economics, engineering and public policy. Provides a step-by-step guide for applying big data mining tools to climate and environmental research Presents a comprehensive review of theory and algorithms of big data mining for climate change Includes current research in climate and environmental science as it relates to using big data algorithms Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today. The Social Internet of Things (SIoT) has become a hot topic in academic research. It employs the theory of social networks into the different levels of the Internet of Things (IoTs) and has brought new possibilities for the development of IoTs. Essentially, the SIoT is a subset of IoTs. It uses intelligent hardware and humans as the node, a social network as the organization type, the social relationship between things, things and humans, and between humans, formatting research methods and models with social network characteristics to realize the connection, service, and application of the IoTs. Moreover, SIoT is a form of realization of technology, architecture, and application of the IoTs using social network research methods. It further promotes the integration between real-world and virtual cyberspace, contributes the realization of the IoTs, expands the research scope of the social networking, and provides a new solution for the specific problems of the IoTs. Consequently, there is a tremendous need for researchers to have a comprehensive knowledge of the advances in SIoT. This special issue is soliciting scientific research papers that can present a snapshot of the latest research status of SIoT. This book deals with medical image analysis methods. In particular, it contains two significant chapters on image segmentation as well as some selected examples of the application of image analysis and processing methods. Despite the significant development of information technology methods used in modern image analysis and processing algorithms, the segmentation process remains open. This is mainly due to intra-patient variability and/or scene diversity. Segmentation is equally difficult in the case of ultrasound imaging and depends on the location of the probe or the contact force. Regardless of the imaging method, segmentation must be tailored for a specific application in almost every case. These types of application areas for various imaging methods are included in this book. The Canadian Almanac & Directory is the most complete source of Canadian information available - cultural, professional and financial institutions, legislative, governmental, judicial and educational organizations. Canada's authoritative sourcebook for almost 160 years, the Canadian Almanac & Directory gives you access to almost 100,000 names and addresses of contacts throughout the network of Canadian institutions. This book explores the pressing topic of dark trading. Following new EU legislation regulating financial markets (MiFID II and MiFIR), it traces the development of off-market securities trading (" dark trading "), analyzes economic studies of this development, and positions the resulting regulatory framework of the EU over against that of the US. The study closes with proposals for reform that provide new impetus for further academic discussion. This book develops and articulates a new perspective on the relationship between natural resources and development by foregrounding issues of innovation, knowledge, and industrial dynamics. Despite growing academic attention to the

relationship between economic development and natural resources in social sciences, the issue has received rather limited attention in the field of Innovation Studies. This is problematic given the centrality of innovation and technological change for growth and development. Against that background, this book makes three contributions. Firstly, it summarizes and synthesizes existing insights about learning and innovation in Natural Resource Based Industries. Secondly, it develops new insights based on original research work. Thirdly, it distills and explains the remaining research challenges in the field. Containing important insights for researchers, businesses, and policymakers, this book will be useful to all those with an interest in navigating a natural resource based development pathway. This book was originally published as a special issue of Innovation and Development. Physics of Energy Sources provides readers with a balanced presentation of the fundamental physics needed to understand and analyze conventional and renewable energy sources including nuclear, solar, wind and water power. It also presents various ways in which energy can be stored for future use. The book is an informative and authoritative text for students in the physical sciences and engineering and is based on a lecture course given regularly by the author. With the ever increasing demand for sustainable, environmentally-friendly and reliable sources of energy, the need for scientists and engineers equipped to tackle the challenges of developing and improving upon commercially viable energy sources has never been more urgent. By focusing on the physical principles governing energy production, storage, and transmission, this book provides readers with a solid foundation in the science and technology of energy sources. Physics of Energy Sources features include: Analyses of conventional and renewable energy sources in terms of underlying physical principles Integrated application of a wide range of physics, from classical to quantum physics Coverage of nuclear, wind, wave, tidal, hydroelectric, geothermal and solar power, including many practical systems Consideration of efficiency for power production as well as energy storage and transportation Consideration of key environmental issues Worked examples in text, and problems & solutions to encourage understanding Derivation of formulae with a minimum of mathematical complexity

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