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Handbook of Research on Big Data, Green Growth, and Technology Disruption in Asian Companies and Societies IGI Global

With the large amount of data stored by many organizations, capitalists have observed that this information is an intangible asset. Unfortunately, handling large databases is a very complex process and traditional learning techniques are expensive to use. Heuristic techniques provide much help in this arena, although little is known about heuristic techniques. **Heuristic and Optimization for Knowledge Discovery** addresses the foundation of this topic, as well as its practical uses, and aims to fill in the gap that exists in current literature.

Investigating Groundwater Springer Science & Business Media

A comprehensive compendium for the field of transnational law by providing a treatment and presentation in an area that has become one of the most intriguing and innovative developments in legal doctrine, scholarship, theory, as well as practice today. With a considerable contribution from and engagement with social sciences, it features numerous reflections on the relationship between transnational law and legal practice.

Innovation, Strategy and Risk in Construction Handbook of Deep Learning Applications

The University of New South Wales, from its gestation in the Sydney Technical College and its controversial beginnings in 1949, has grown into a diverse, innovative institution, one of Australia's premier universities - with, in 1999, a student population of 30,000 and a staff of 5,000. Since its foundation it has been a leading player in the redefining of traditional notions of university life and character in Australia, maintaining its contributions to public life and its continuing focus on the incorporation of change. The book sets out to capture the spirit and achievement of these first fifty years.

The Oxford Handbook of Transnational Law IGI Global

#1 NEW YORK TIMES BESTSELLER • “The Uninhabitable Earth hits you like a comet, with an overflow of insanely lyrical prose about our pending Armageddon.” —Andrew Solomon, author of *The Noonday Demon* With a new afterword It is worse, much worse, than you think. If your anxiety about global warming is dominated by fears of sea-level rise, you are barely scratching the surface of what terrors are possible—food shortages, refugee emergencies, climate wars and economic devastation. An “epoch-defining book” (*The Guardian*) and “this generation’s *Silent Spring*” (*The Washington Post*), *The Uninhabitable Earth* is both a travelogue of the near future and a meditation on how that future will look to those living through it—the ways that warming promises to transform global politics, the meaning of technology and nature in the modern world, the sustainability of capitalism and the trajectory of human progress. *The Uninhabitable Earth* is also an impassioned call to action. For just as the world was brought to the brink of catastrophe within the span of a lifetime, the responsibility to avoid it now belongs to a single generation—today’s. Praise for *The Uninhabitable Earth*

“*The Uninhabitable Earth* is the most terrifying book I have ever read. Its subject is climate change, and its method is scientific, but its mode is Old Testament. The book is a meticulously documented, white-knuckled tour through the cascading catastrophes that will soon engulf our warming planet.” —Farhad Manjoo, *The New York Times* “Riveting. . . . Some readers will find Mr. Wallace-Wells’s outline of possible futures alarmist. He is indeed alarmed. You should be, too.” —*The Economist* “Potent and evocative. . . . Wallace-Wells has resolved to offer something other than the standard narrative of climate change. . . . He avoids the eerily banal language of climatology in favor of lush, rolling prose.” —Jennifer Szalai, *The New York Times* “The book has potential to be this generation’s *Silent Spring*.” —*The Washington Post* “*The Uninhabitable Earth*, which has become a best seller, taps into the underlying emotion of the day: fear. . . . I encourage people to read this book.” —Alan Weisman, *The New York Review of Books*

Advanced Mine Ventilation Springer

When you think about how far and fast computer science has progressed in recent years, it's not hard to conclude that a seven-year old handbook may fall a little short of the kind of reference today's computer scientists, software engineers, and IT professionals need. With a broadened scope, more emphasis on applied computing, and more than 70 chap

Advanced Information Systems Engineering CRC Press

Real life problems are known to be messy, dynamic and multi-objective, and involve high levels of uncertainty and constraints. Because traditional problem-solving methods are no longer capable of handling this level of complexity, heuristic search methods have attracted increasing attention in recent years for solving such problems. Inspired by nature, biology, statistical mechanics, physics and neuroscience, heuristics techniques are used to solve many problems where traditional methods have failed. **Data Mining: A Heuristic Approach** will be a repository for the applications of these techniques in the area of data mining.

Machine Learning for Computer and Cyber Security IGI Global

This book presents a broad range of deep-learning applications related to vision, natural language processing, gene expression, arbitrary object recognition, driverless cars, semantic image segmentation, deep visual residual abstraction, brain – computer interfaces, big data processing, hierarchical deep learning networks as game-playing artefacts using regret matching, and building GPU-accelerated deep learning frameworks. Deep learning, an advanced level of machine learning technique that combines class of learning algorithms with the use of many layers of nonlinear units, has gained considerable attention in recent times. Unlike other books on the market, this volume addresses the challenges of deep learning implementation, computation time, and the complexity of reasoning and modeling different type of data. As such, it is a valuable and comprehensive resource for engineers, researchers, graduate students and Ph.D. scholars.

Heuristic and Optimization for Knowledge Discovery John Wiley & Sons

This book is a unique supplement to contemporary scientific literature on rock blasting technology. It encapsulates theoretical and practical aspects of drilling and blasting techniques used in both surface and subterranean excavations connected with civil as well as mining activities. Case studies are presented to illustrate correlations between theoretical calculations and empirical findings. It also summarizes the results of research carried out by the Blasting Department of the Central Mining Research Institute since its inception in the year 1970. It contains fifteen extensive chapters covering

statistical methods, design parameters, rock breakage mechanism, structural damage, fragmentation, emerging techniques, surface and sub-surface blasting methodologies, safety and environmental aspects, explosive characteristics and modern initiating devices.

Handbook of Neural Computation Crown

Algorithms are a fundamental building block of artificial intelligence - and, increasingly, society - but our legal institutions have largely failed to recognize or respond to this reality. *The Cambridge Handbook of the Law of Algorithms*, which features contributions from US, EU, and Asian legal scholars, discusses the specific challenges algorithms pose not only to current law, but also - as algorithms replace people as decision makers - to the foundations of society itself. The work includes wide coverage of the law as it relates to algorithms, with chapters analyzing how human biases have crept into algorithmic decision-making about who receives housing or credit, the length of sentences for defendants convicted of crimes, and many other decisions that impact constitutionally protected groups. Other issues covered in the work include the impact of algorithms on the law of free speech, intellectual property, and commercial and human rights law.

Data Science and Machine Learning Springer

This book will address the cybersecurity and cooperate governance challenges associated with enterprises, providing a bigger picture of the concepts, intelligent techniques, practices, and open research directions in this area.

SME Mining Engineering Handbook, Third Edition Routledge

Sure, everyone gets sick sometimes, but do you realize that plenty of those folks also die slow, unpleasant deaths from diseases that stumped even the experts at top-notch (still privately run) hospitals? That’s right: There are plenty of illnesses that even physicians have never heard about. *Nodding Disease, Alice in Wonderland Syndrome, and Cutaneous Horn* (yes, you grow a horn) are all featured here in pithy, energetic entries. You won’t have to worry about socialized medicine if you have this book—even if your doc could see you within a month, you might die due to his ignorance. Lucky for you and your loved ones, *Ian Landau* (who has no medical training but is a hell of a researcher) includes: Descriptions of each disease Background and history How to diagnose yourself and others Suggested treatments Prevention methods The book is not for the faint of heart, as it probably could cause cardiac arrest. (And you ain’t coming back from that without *Ian’s* help.)

Report Writing Guide CRC Press

Handbook of Neural Computation explores neural computation applications, ranging from conventional fields of mechanical and civil engineering, to electronics, electrical engineering and computer science. This book covers the numerous applications of artificial and deep neural networks and their uses in learning machines, including image and speech recognition, natural language processing and risk analysis. Edited by renowned authorities in this field, this work is comprised of articles from reputable industry and academic scholars and experts from around the world. Each contributor presents a specific research issue with its recent and future trends. As the demand rises in the engineering and medical industries for neural networks and other machine learning methods to solve different types of operations, such as data prediction, classification of images, analysis of big data, and intelligent decision-making, this book provides readers with the latest, cutting-edge research in one comprehensive text. Features high-quality research articles on multivariate adaptive regression splines, the minimax probability machine, and more Discusses machine learning techniques, including classification, clustering, regression, web mining, information retrieval and natural language processing Covers supervised, unsupervised, reinforced, ensemble, and nature-inspired learning methods **The Mechatronics Handbook - 2 Volume Set** SME

As long as we have mining and mineral processing, tailings and the responsible management thereof will remain at the forefront, with a company’s environmental, social, and governance (ESG) performance in part a reflection of how well tailings risks are being managed. *The Global Industry Standard on Tailings Management (GISTM)* was published in August 2020, aiming to prevent catastrophic failure of tailings facilities by providing operators with specified measures and approaches throughout the mine life cycle, taking into account multiple stakeholder perspectives. In 2021, the International Council on Mining & Metals (ICMM) published the *Tailings Management: Good Practice Guide* intended to support safe, responsible management of tailings across the global mining industry, providing guidance on good governance and engineering practices to support continual improvement in tailings storage facility (TSF) management and help foster and strengthen the safety culture of mining companies. *The Tailings Management Handbook* is important and timely because there is no other comprehensive resource rooted in these new fundamentals and global principles for tailings management. Tailings management requires interdisciplinary and cross-functional understanding and support, which is apparent throughout this handbook. Dive into the wealth of information contributed by more than 100 world-renowned experts, beautifully crafted into a full-color handbook that focuses on the basics, life-cycle planning, site and tailings characterization, TSF design and construction, as well as systems and operations of TSFs. The inclusion of 42 case studies is an added plus with real-world successes and lessons learned.

Engineering Design EPFL Press

This book constitutes the thoroughly refereed conference proceedings of the Third International Conference on Algorithmic Decision Theory, ADT 2013, held in November 2013 in Bruxelles, Belgium. The 33 revised full papers presented were carefully selected from more than 70 submissions, covering preferences in reasoning and decision making, uncertainty and robustness in decision making, multi-criteria decision analysis and optimization, collective decision making, learning and knowledge extraction for decision support.

Rock Blasting IGI Global

The Handbook of Natural Language Processing, Second Edition presents practical tools and techniques for implementing natural language processing in computer systems. Along with removing outdated material, this edition updates every chapter and expands the content to include emerging areas, such as sentiment analysis. New to the Second Edition Greater

Springer Handbook of Robotics CRC Press

Advanced Mine Ventilation presents the reader with a unique book providing the theory and applications for designing mine ventilation with computers, controlling respirable coal dust and diesel particulate matter, combustible gas control and, mine fire management. The book summarizes the latest knowledge created in the past 40 years in these areas. Authored by an expert in the field with 50 years’ experience, the book is a great combination of theory and applications. The mine ventilation section provides computer programs (both FORTRAN and C++) to calculate not only air quantities and pressure losses but also the concentration of any pollutant in all junctions and branches of the mine network. Small particle mechanics and dust control is covered in the second section of the book. The third section on combustible gas control discusses all aspects of mine gases from origin to control. The last section on mine fire control discusses spontaneous combustion, frictional ignitions, mine explosions, and mine sealing and recovery. The book is not only a very good reference book but also an excellent textbook for two graduate level courses in Mining Engineering. Provides the latest knowledge on the four related topics of mine environment control; that is, ventilation, dust, gas, and fire in a single volume. Computer simulation of mine ventilation in both FORTRAN and C++. State-of-the-art respirable dust control. Mine degasification and methane production from a coal lease. Mine fire management.

Artificial Neural Networks in Finance and Manufacturing BoD – Books on Demand

Security Analytics for the Internet of Everything compiles the latest trends, technologies, and applications in this emerging field. It includes chapters covering emerging security trends, cyber governance, artificial

intelligence in cybersecurity, and cyber challenges. Contributions from leading international experts are included. The target audience for the book is graduate students, professionals, and researchers working in the fields of cybersecurity, computer networks, communications, and the Internet of Everything (IoE). The book also includes some chapters written in a tutorial style so that general readers can easily grasp some of the ideas.

Handbook of Photovoltaic Science and Engineering CRC Press

Investigating Groundwater provides an integrated approach to the challenges associated with locating groundwater. Uniquely, the book provides a review of the wide range of techniques that can be deployed to investigate this important resource. Many of the practical examples given are based upon Australian experience but the methods have worldwide applicability. The book is published in colour and includes many original diagrams and photographs. Particular effort has been made to provide consistent terminology and SI units are used throughout the text. Investigating Groundwater starts with an introduction to the historical significance of groundwater and gives an account of climate change. A description of the occurrence of groundwater in different rock types is then provided. A detailed account of surface water techniques is then followed by an account of the interconnections between surface water and groundwater. Four chapters describing groundwater hydraulics are then followed by four chapters describing the latest geophysical techniques. Once the best location of a borehole is determined using these techniques; chapters then describe appropriate drilling methods to use; provide a wide ranging review of geophysical logging, hydrochemical and isotopic techniques, before concluding with a detailed description of groundwater flow to a well. Written for a worldwide audience of degree level geology/engineering practitioners, academics and students involved in groundwater resource investigation methods; Investigating Groundwater is essential reading for those involved in groundwater research. Key Features: Presents the theoretical background and a detailed description of the techniques used in the investigation of groundwater. Describes the general occurrence of groundwater in different rock types; surface water hydrology and interconnected surface and groundwater systems. Provides detailed descriptions of geophysical techniques (seismic, electrical, gravity and heat) and an account of available geophysical logging methods. Reviews hydrochemical and isotope methods, followed by an account of drilling techniques. Gives a detailed account of radial flow to a well, including appropriate modelling and pump-testing techniques and a consideration of non-linear flow. Of interest to anyone involved in the development of groundwater resources, either for domestic supply, for agriculture or for mining.

Environmental Geomechanics Palgrave Macmillan

The second edition of this handbook provides a state-of-the-art overview on the various aspects in the rapidly developing field of robotics. Reaching for the human frontier, robotics is vigorously engaged in the growing challenges of new emerging domains. Interacting, exploring, and working with humans, the new generation of robots will increasingly touch people and their lives. The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline. The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics. The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences & Mathematics as well as the organization's Award for Engineering & Technology. The second edition of the handbook, edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors, continues to be an authoritative reference for robotics researchers, newcomers to the field, and scholars from related disciplines. The contents have been restructured to achieve four main objectives: the enlargement of foundational topics for robotics, the enlightenment of design of various types of robotic systems, the extension of the treatment on robots moving in the environment, and the enrichment of advanced robotics applications. Further to an extensive update, fifteen new chapters have been introduced on emerging topics, and a new generation of authors have joined the handbook's team. A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos, which bring valuable insight into the contents. The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app. Springer Handbook of Robotics Multimedia Extension Portal: <http://handbookofrobotics.org/>

Next-Generation Enterprise Security and Governance Lulu.com

The field of slope engineering encompasses slope stability analysis and design, movement monitoring, and slope safety management and maintenance. Engineers in this field are concerned with landslides and other gravity-stimulated mass movements. Their job is to frequently evaluate existing and proposed slopes to assess their stability. As such, this book provides information on remote sensing in landslide detection, tunnel face stability, stability analysis and maintenance of cut slopes, design techniques in rock and soil engineering, statistical models for landslide risk mapping, slope stability analysis in open-pit mines, ecological engineering for slope stabilization, and asphalt-stabilized strengthening in open-pit coal mining.