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FOUNDATIONS OF INTELLIGENT SYSTEMS

21ST INTERNATIONAL SYMPOSIUM, ISMIS 2014, ROSKILDE, DENMARK, JUNE 25-27, 2014. PROCEEDINGS

Springer **This book constitutes the refereed proceedings of the 21st International Symposium on Methodologies for Intelligent Systems, ISMIS 2014, held in Roskilde, Denmark, in June 2014. The 61 revised full papers were carefully reviewed and selected from 111 submissions. The papers are organized in topical sections on complex networks and data stream mining; data mining methods; intelligent systems applications; knowledge representation in databases and systems; textual data analysis and mining; special session: challenges in text mining and semantic information retrieval; special session: warehousing and OLAPing complex, spatial and spatio-temporal data; ISMIS posters.**

FUZZY LOGIC AND APPLICATIONS

12TH INTERNATIONAL WORKSHOP, WILF 2018, GENOA, ITALY, SEPTEMBER 6–7, 2018, REVISED SELECTED PAPERS

Springer **This book constitutes the post-conference proceedings of the 12th International Workshop on Fuzzy Logic and Applications, WILF 2018, held in Genoa, Italy, in September 2018. The 17 revised full papers and 9 short papers were carefully reviewed and selected from 26 submissions. The papers are organized in topical sections on fuzzy logic theory, recent applications of fuzzy logic, and fuzzy decision making. Also included are papers from the round table**

"Zadeh and the future of logic" and a tutorial.

MINERALS YEARBOOK

METALS AND MINERALS

This volume, covering metals and minerals, contains chapters on approximately 90 commodities. In addition, this volume has chapters on mining and quarrying trends and on statistical surveying methods used by Minerals Information, plus a statistical summary.

SOFTWARE ENGINEERING RESEARCH, MANAGEMENT AND APPLICATIONS

Springer **This book presents the outcomes of the 16th International Conference on Software Engineering, Artificial Intelligence Research, Management and Applications (SERA 2018), which was held in Kunming, China on June 13-15, 2018. The aim of the conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the various fields of computer science, to share their experiences, and to exchange new ideas and information in a meaningful way. The book includes findings on all aspects (theory, applications and tools) of computer and information science, and discusses related practical challenges and the solutions adopted to solve them. The conference organizers selected the best papers from those accepted for presentation. The papers were chosen based on review scores submitted by members of the program committee and underwent a further rigorous round of review. From this second round, 13 of the conference's most promising papers were then published in this Springer (SCI) book and not the conference proceedings. We eagerly await the important contributions that we know these authors will make to the field of computer and information science.**

GLOBAL FINANCIAL STABILITY REPORT, APRIL 2015

NAVIGATING MONETARY POLICY CHALLENGES AND MANAGING RISKS

International Monetary Fund **The current report finds that, despite an improvement in economic prospects in some key advanced economies, new challenges to global financial stability have arisen. The global financial system is being buffeted by a series of changes, including lower oil prices and, in some cases, diverging growth patterns and monetary**

policies. Expectations for rising U.S. policy rates sparked a significant appreciation of the U.S. dollar, while long term bond yields in many advanced economies have decreased—and have turned negative for almost a third of euro area sovereign bonds—on disinflation concerns and the prospect of continued monetary accommodation. Emerging markets are caught in these global cross currents, with some oil exporters and other facing new stability challenges, while others have gained more policy space as a result of lower fuel prices and reduced inflationary pressures. The report also examines changes in international banking since the global financial crisis and finds that these changes are likely to promote more stable bank lending in host countries. Finally, the report finds that the asset management industry needs to strengthen its oversight framework to address financial stability risks from incentive problems between end-investors and portfolio managers and the risk of runs due to liquidity mismatches.

MINERALS YEARBOOK

AREA REPORTS: INTERNATIONAL REVIEW 2014 ASIA AND THE PACIFIC

Minerals Yearbook: Volume 3: A - **Minerals Yearbook, 2014, V. 3: Area Reports: International: Asia and the Pacific. Volume III, Area Reports: International, is published as four separate reports. These regional reports contain the latest available minerals data on more than 180 foreign countries and discuss the importance of minerals to the economies of these nations and the United States. Each report begins with an overview of the region's mineral industries during the year. It continues with individual country chapters that examine the mining, refining, processing, and use of minerals in each country of the region and how each country's mineral industry relates to U.S. industry. Most chapters include production tables and industry structure tables, information about Government policies and programs that affect the country's mineral industry, and an outlook section.**

MACRO-LEVEL LEARNING THROUGH MASSIVE OPEN ONLINE COURSES (MOOCS): STRATEGIES AND PREDICTIONS FOR THE FUTURE

STRATEGIES AND PREDICTIONS FOR THE FUTURE

IGI Global **To some in academia, Massive Open Online Courses are a paradigm shift in online education, while others perceive them as a threat to traditional styles of pedagogy. In this regard, the time-honored model of the university lecture is seen as being a potential casualty of the rise of MOOCs. Macro-Level Learning through Massive Open Online**

Courses (MOOCs): Strategies and Predictions for the Future provides insight into the emerging phenomenon of MOOCs as a design manual for the course designer with a collection of chapters that deal with all facets of the MOOC debate. Industry training developers, corporate trainers, educators, post graduate students, and others will benefit from the information provided in this book.

ROUTLEDGE HANDBOOK OF THE ECONOMICS OF EUROPEAN INTEGRATION

Routledge **Routledge Handbook of the Economics of European Integration provides readers with a brief but comprehensive overview of topics related to the process of European integration in the post-World War II period. Its short chapters reflect the most up-to-date and concise research, written by a collective of experts on their own subjects. The aim of this book is twofold. Firstly, the text illustrates the broad and diverse range of issues associated with European integration, and lastly, the key approaches and findings are summarised. Since institutional integration in Europe is an ongoing process, with possibly frequent and sometimes rapid changes, the chapters are intended to focus on the key features of the economic analyses of these topics. A wide and diverse set of economic issues is of direct relevance for European integration. These topics cover various fields, ranging from the history of the European Economic and Monetary Union, EU Trade Policy and the stability of international trade, single market issues over fiscal, monetary and other policies, the crisis that faces the Euro area, and institutions such as EU Council of Ministers. Not surprisingly, many of these issues have also been analysed from a European perspective. This handbook is designed to provide students, researchers, the public and policy makers with ready and accessible knowledge of issues related to European integration and will provide the definitive overview of research in the area.**

THE MECHANICS OF A STRONG EURO AREA

IMF POLICY ANALYSIS

International Monetary Fund **Among member states, many structural weaknesses were exposed when economic performance declined significantly and financial markets became more discerning. This book focuses on the analytical underpinnings of real-time policy advice given to euro area policymakers during four cycles of the IMF's annual Article IV consultations (2012–15) with euro area authorities.**

WEB-AGE INFORMATION MANAGEMENT

WAIM 2014 INTERNATIONAL WORKSHOPS: BIGEM, HARDBD, DANOS, HRSUNE, BIDASYS, MACAU, CHINA, JUNE 16-18, 2014, REVISED SELECTED PAPERS

Springer **This book constitutes the refereed proceedings of 5 workshops of the 15th International Conference on Web-Age Information Management, WAIM 2014, held in Macau, China, June 16-18, 2014. The 38 revised full papers are organized in topical sections on the 5 following workshops: Second International Workshop on Emergency Management in Big Data Age, BigEM 2014; Second International Workshop on Big Data Management on Emerging Hardware, HardBD 2014; International Workshop on Data Management for Next-Generation Location-based Services, DaNoS 2014; International Workshop on Human Aspects of Making Recommendations in Social Ubiquitous Networking Environment, HRSUME 2014; International Workshop on Big Data Systems and Services, BIDASYS 2014.**

GEOTECHNICAL DESIGN AND PRACTICE

SELECTED TOPICS

Springer **This book presents articles covering a wide spectrum of topics in geotechnical engineering, including properties of soils, unsaturated soil mechanics, ground improvement, liquefaction and seismic studies, soil-structure interaction and stability analysis of man-made and natural slopes. The contributing authors are renowned researchers in their respective fields, which include soft ground improvement, seismic response of retaining structure using soil-structure Interaction (SSI) principles, and unsaturated soils. Based on keynote addresses and invited talks presented at the Indian Geotechnical Conference 2016, this book will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering.**

ON UNEMPLOYMENT, VOLUME II

ACHIEVING ECONOMIC JUSTICE AFTER THE GREAT RECESSION

Springer **With unemployment at historically high rates that show signs of becoming structural, there is a pressing need for an in-depth exploration of this economic injustice. Unemployment is one of the problems most likely to put critical**

pressure on our political institutions, disrupt the social fabric of our way of life, and even threaten the continuation of liberalism itself. Despite the obvious importance of the problem of unemployment, however, there has been a curious lack of attention paid to this issue by contemporary non-Marxist political philosophers. On Unemployment explores the moral implications of the problem of unemployment despite the continuing uncertainty involving both its causes and its cures. Reiff takes up a series of questions about the nature of unemployment and what justice has to tell us about what we should do, if anything, to alleviate it. The book comprehensively discusses the related theory and suggests how we might implement these more general observations in the real world. It addresses the politics of unemployment and the extent to which opposition to some or all of the book's various proposals stem not from empirical disagreements about the best solutions, but from more basic moral disagreements about whether the reduction of unemployment is indeed an appropriate moral goal. This exciting new text will be essential for scholars and readers across business, economics, and finance, as well as politics, philosophy, and sociology.

THE COUNTRY GENTLEMAN

FINANCE FOR NORMAL PEOPLE

HOW INVESTORS AND MARKETS BEHAVE

Oxford University Press **Finance for Normal People teaches behavioral finance to people like you and me - normal people, neither rational nor irrational. We are consumers, savers, investors, and managers - corporate managers, money managers, financial advisers, and all other financial professionals. The book guides us to know our wants-including hope for riches, protection from poverty, caring for family, sincere social responsibility and high social status. It teaches financial facts and human behavior, including making cognitive and emotional shortcuts and avoiding cognitive and emotional errors such as overconfidence, hindsight, exaggerated fear, and unrealistic hope. And it guides us to banish ignorance, gain knowledge, and increase the ratio of smart to foolish behavior on our way to what we want. These lessons of behavioral finance draw on what we know about us-normal people-including our wants, cognition, and emotions. And they draw on the roles of these factors in saving and spending, portfolio construction, returns we can expect from our investments, and whether we can hope to beat the market. Meir Statman, a founder of behavioral finance, draws on his extensive research and the research of many others to build a unified structure of behavioral finance. Its foundation blocks include normal behavior, behavioral portfolio theory, behavioral life-cycle**

theory, behavioral asset pricing theory, and behavioral market efficiency.

INTERNATIONAL JOINT CONFERENCE SOCO'18-CISIS'18-ICEUTE'18

SAN SEBASTIÁN, SPAIN, JUNE 6-8, 2018 PROCEEDINGS

Springer **This book includes papers presented at SOCO 2018, CISIS 2018 and ICEUTE 2018, all held in the beautiful and historic city of San Sebastian (Spain), in June 2018. Soft computing represents a collection or set of computational techniques in machine learning, computer science and some engineering disciplines, which investigate, simulate, and analyze highly complex issues and phenomena. After a rigorous peer-review process, the 13th SOCO 2018 International Program Committee selected 41 papers, with a special emphasis on optimization, modeling and control using soft computing techniques and soft computing applications in the field of industrial and environmental enterprises. The aim of the 11th CISIS 2018 conference was to offer a meeting opportunity for academic and industry researchers from the vast areas of computational intelligence, information security, and data mining. The need for intelligent, flexible behaviour by large, complex systems, especially in mission-critical domains, was the catalyst for the overall event.Eight of the papers included in the book were selected by the CISIS 2018 International Program Committee. The International Program Committee of ICEUTE 2018 selected 11 papers for inclusion in these conference proceedings.**

CORPORATE GOVERNANCE IN TANZANIA

ETHICS AND ACCOUNTABILITY AT THE CROSSROADS

Routledge **Increasingly the importance of corporate governance for economic development in developing economies like Tanzania is indisputable. This book explores the effectiveness of corporate governance in Tanzania and asks how it can be further developed and improved so as to make a difference in the contribution of state-owned enterprises to the economy. The book tries as fairly as possible to probe further into effective corporate governance, using cases of public entities, highlighting shortfalls in their governance and the consequent multiplier effects on socio-economic life. On the other hand, the book also aims to present examples of good governance in multi-layered ways, to show that there is room for creativity and innovation in applying principles of good corporate governance. Recognising that context is crucial, the book starts by assessing Tanzania's socio-historical and economic context, and gauging various applicable metrics. Using historical and theoretical lenses, including the ethics-accountability relationship, the author**

aims to improve our understanding of corporate failures and consequent waste in Tanzania. Explaining failures in governance is far from straightforward, as by definition they operate beyond rules and regulations, systems and processes, yet the author draws from decades of local experience and expertise in order to assess the real situation on the ground. The Tanzania case will be of considerable interest to researchers looking at questions of corporate governance and economic development both within the country itself, and across Africa.

APPLIED DECISIONS IN AREA OF MECHANICAL ENGINEERING AND INDUSTRIAL MANUFACTURING

Trans Tech Publications Ltd **Collection of selected, peer reviewed papers from the 3rd International Conference on Mechanical, Control, and Electronic Information (ICMCEI 2014), June 27 -29, 2014, Taiwan. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 283 papers are grouped as follows: Chapter 1: Materials Science and Processing, Chapter 2: General Mechanical Engineering and Applied Mechanics, Chapter 3: Mechatronics, Control Systems and Robotics, Chapter 4: Electrical Engineering, Apparatus and Power Engineering, Chapter 5: Electronics and Integrated Circuits, Embedded Technology, Chapter 6: Measurements, Testing and Monitoring, Chapter 7: Signal, Image Processing and Computational Mathematics, Chapter 8: Communication, Networks and Information Technologies, Chapter 9: Traffic and Transportation, Chapter 10: Construction and Mining, Chapter 11: Earth Science and Environmental Engineering, Chapter 12: Biomedical Engineering, Chapter 13: Product Design and Industrial Engineering**

PREDICTION MACHINES, UPDATED AND EXPANDED

THE SIMPLE ECONOMICS OF ARTIFICIAL INTELLIGENCE

Harvard Business Press **Named one of "The five best books to understand AI" by The Economist The impact AI will have is profound, but the economic framework for understanding it is surprisingly simple. Artificial intelligence seems to do the impossible, magically bringing machines to life—driving cars, trading stocks, and teaching children. But facing the sea change that AI brings can be paralyzing. How should companies set strategies, governments design policies, and people plan their lives for a world so different from what we know? In the face of such uncertainty, many either cower in fear or predict an impossibly sunny future. But in Prediction Machines, three eminent economists recast the rise of AI as a drop in the cost of prediction. With this masterful stroke, they lift the curtain on the AI-is-magic hype and provide economic clarity about the AI revolution as well as a basis for action by executives, policy makers, investors,**

and entrepreneurs. In this new, updated edition, the authors illustrate how, when AI is framed as cheap prediction, its extraordinary potential becomes clear: Prediction is at the heart of making decisions amid uncertainty. Our businesses and personal lives are riddled with such decisions. Prediction tools increase productivity—operating machines, handling documents, communicating with customers. Uncertainty constrains strategy. Better prediction creates opportunities for new business strategies to compete. The authors reset the context, describing the striking impact the book has had and how its argument and its implications are playing out in the real world. And in new material, they explain how prediction fits into decision-making processes and how foundational technologies such as quantum computing will impact business choices. Penetrating, insightful, and practical, Prediction Machines will help you navigate the changes on the horizon.

FOUNDATIONS OF INTELLIGENT SYSTEMS

23RD INTERNATIONAL SYMPOSIUM, ISMIS 2017, WARSAW, POLAND, JUNE 26-29, 2017, PROCEEDINGS

Springer **This book constitutes the proceedings of the 23rd International Symposium on Foundations of Intelligent Systems, ISMIS 2017, held in Warsaw, Poland, in June 2017. The 56 regular and 15 short papers presented in this volume were carefully reviewed and selected from 118 submissions. The papers include both theoretical and practical aspects of machine learning, data mining methods, deep learning, bioinformatics and health informatics, intelligent information systems, knowledge-based systems, mining temporal, spatial and spatio-temporal data, text and Web mining. In addition, four special sessions were organized; namely, Special Session on Big Data Analytics and Stream Data Mining, Special Session on Granular and Soft Clustering for Data Science, Special Session on Knowledge Discovery with Formal Concept Analysis and Related Formalisms, and Special Session devoted to ISMIS 2017 Data Mining Competition on Trading Based on Recommendations, which was launched as a part of the conference.**

ROUTLEDGE HANDBOOK OF SOCIAL AND SUSTAINABLE FINANCE

Routledge **Routledge Handbook of Social and Sustainable Finance brings together an international cast of leading authorities to map out and display the disparate voices, traditions and professional communities engaged in social finance activity. With a clear societal or environmental mission, foundations, individual and group investors, as well as public bodies around the world have become increasingly eager to finance and support innovative forms of doing business. Together, founders and established businesses alike are embracing new sustainable business models with a**

distinct stakeholder approach to tackle social or environmental problems in what they see as a failed economic system in crisis. As a result, the topic of social and sustainable finance is at the forefront of financial economic thought. This Handbook is divided up into three parts. The first, "The Landscape of Social and Sustainable Finance and Investments", comprises of chapters from a multitude of perspectives in an effort to grasp the entirety of the landscape. The second, "Challenges, Suggestions, Critiques and Debates", focuses on areas ranging from sociological underpinnings to critical takes on markets, and the identification of specialized business models. Amongst ethical considerations, topics include the scaling of impact, an analysis of sustainability as risk prevention and comparative analyses of various methods of justification and measurement. In the third and final section, "Markets and Institutions", contributions range from various perspectives on sustainable banking to environmental marketplaces, and finally on to practical cases and country specific observations. This volume is essential reading for both academics and students in economics and finance. It is also of interest to those who study environmental economics, microeconomics and banking.

ATLAS OF FORECASTS

MODELING AND MAPPING DESIRABLE FUTURES

MIT Press **Forecasting the future with advanced data models and visualizations. To envision and create the futures we want, society needs an appropriate understanding of the likely impact of alternative actions. Data models and visualizations offer a way to understand and intelligently manage complex, interlinked systems in science and technology, education, and policymaking. Atlas of Forecasts, from the creator of Atlas of Science and Atlas of Knowledge, shows how we can use data to predict, communicate, and ultimately attain desirable futures. Using advanced data visualizations to introduce different types of computational models, Atlas of Forecasts demonstrates how models can inform effective decision-making in education, science, technology, and policymaking. The models and maps presented aim to help anyone understand key processes and outcomes of complex systems dynamics, including which human skills are needed in an artificial intelligence-empowered economy; what progress in science and technology is likely to be made; and how policymakers can future-proof regions or nations. This Atlas offers a driver's seat-perspective for a test-drive of the future.**

REVIEW OF THE FUND'S INCOME POSITION FOR FY 2017 AND FY 2018

International Monetary Fund **The Fund's total net income for FY 2017, including surcharges, is projected at about SDR 1.7**

billion or some SDR 0.7 billion higher than expected in April 2016. This mainly reflects the IAS 19 adjustment (relating to reporting of employee benefits), which is expected to contribute about SDR 0.4 billion to net income, and higher investment income. Lending income is expected to be modestly lower than the April 2016 estimates. The paper recommends that GRA net income of SDR 1.2 billion for FY 2017 (which excludes projected income of the gold endowment), be placed equally to the special and general reserve. After the placement of GRA FY 2017 net income to reserves, precautionary balances are projected to reach SDR 16.4 billion at the end of FY 2017. The paper further proposes to transfer currencies equivalent to the increase in the Fund's reserves from the GRA to the Investment Account. In April 2016, the margin for the rate of charge was set at 100 basis points for the two years FY 2017 and FY 2018. The margin may be adjusted before the end of the first year of this two-year period (i.e., FY 2017) but only if warranted by fundamental changes in the underlying factors relevant for the establishment of the margin at the start of the two-year period. Staff does not propose a change in the margin. The projections for FY 2018 point to a net income position of SDR 0.7 billion. These projections are subject to considerable uncertainty and are sensitive to a number of assumptions.

THE OXFORD HANDBOOK OF SOVEREIGN WEALTH FUNDS

Oxford University Press **Sovereign Wealth Funds (SWFs) represent both an increasingly important - and potentially dominant - category of alternative investor, and a novel form for governments to project their interests both home and abroad. As such, they represent both economic actors and embody power vested in the financial and diplomatic resources they can leverage. Although at times they have acted in concert with other alternative investors, their intergenerational savings function should, in theory at least, promote more long-termist thinking. However, they may be impelled in towards greater short termism, in response to popular pressures, demands from predatory elites and/or unforeseen external shocks. Of all the categories of alternative investment, SWFs perhaps embody the most contradictory pressures, making for diverse and complex outcomes. The aim of this volume is to consolidate the present state of the art, and advance the field through new applied, conceptual and theoretical insights. The volume is ordered into chapters that explore thematic issues and country studies, incorporating novel insights in on the most recent developments in the SWF ecosystem. This handbook is organized into four sections and 23 chapters. The four sections are: Governance of SWFs, Political and Legal Aspects of SWFs, Investment Choices and Structures of SWFs, Country and Regional Analyses of SWFs.**

MINERALS YEARBOOK

AREA REPORTS: INTERNATIONAL REVIEW 2014 AFRICA AND THE MIDDLE EAST

Government Printing Office **This edition of the U.S. Geological Survey (USGS) Minerals Yearbook discusses the performance of the worldwide minerals and materials industries during year 2013 and provides background information to assist in interpreting that performance. These annual reviews are designed to provide timely statistical data on mineral commodities in various countries. This volume covers data from Asia and the Pacific. Each report includes sections on government policies and programs, environmental issues, trade and production data, industry structure and ownership, commodity sector developments, infrastructure, and a summary outlook. Audience: Government employees and contractors, as well as businesses and employees, all working in mineral-related trades, especially with interests in statistics about mineral commodities overseas, will find this resource invaluable.**

SOC

Cengage Learning **4LTR Press solutions give students the option to choose the format that best suits their learning preferences. This option is perfect for those students who focus on the textbook as their main course resource. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

ADVANCES IN MATERIALS AND PAVEMENT PREDICTION

PAPERS FROM THE INTERNATIONAL CONFERENCE ON ADVANCES IN MATERIALS AND PAVEMENT PERFORMANCE PREDICTION (AM3P 2018), APRIL 16-18, 2018, DOHA, QATAR

CRC Press **Advances in Materials and Pavement Performance Prediction contains the papers presented at the International Conference on Advances in Materials and Pavement Performance Prediction (AM3P, Doha, Qatar, 16- 18 April 2018). There has been an increasing emphasis internationally in the design and construction of sustainable pavement systems. Advances in Materials and Pavement Prediction reflects this development highlighting various approaches to predict pavement performance. The contributions discuss links and interactions between material characterization methods, empirical predictions, mechanistic modeling, and statistically-sound calibration and**

validation methods. There is also emphasis on comparisons between modeling results and observed performance. The topics of the book include (but are not limited to): • Experimental laboratory material characterization • Field measurements and in situ material characterization • Constitutive modeling and simulation • Innovative pavement materials and interface systems • Non-destructive measurement techniques • Surface characterization, tire-surface interaction, pavement noise • Pavement rehabilitation • Case studies Advances in Materials and Pavement Performance Prediction will be of interest to academics and engineers involved in pavement engineering.

"YOU ARE NOT EXPECTED TO UNDERSTAND THIS"

HOW 26 LINES OF CODE CHANGED THE WORLD

Princeton University Press **Leading technologists, historians, and journalists reveal the stories behind the computer coding that touches all aspects of life—for better or worse Few of us give much thought to computer code or how it comes to be. The very word "code" makes it sound immutable or even inevitable. "You Are Not Expected to Understand This" demonstrates that, far from being preordained, computer code is the result of very human decisions, ones we all live with when we use social media, take photos, drive our cars, and engage in a host of other activities. Everything from law enforcement to space exploration relies on code written by people who, at the time, made choices and assumptions that would have long-lasting, profound implications for society. Torie Bosch brings together many of today's leading technology experts to provide new perspectives on the code that shapes our lives. Contributors discuss a host of topics, such as how university databases were programmed long ago to accept only two genders, what the person who programmed the very first pop-up ad was thinking at the time, the first computer worm, the Bitcoin white paper, and perhaps the most famous seven words in Unix history: "You are not expected to understand this." This compelling book tells the human stories behind programming, enabling those of us who don't think much about code to recognize its importance, and those who work with it every day to better understand the long-term effects of the decisions they make. With an introduction by Ellen Ullman and contributions by Mahsa Alimardani, Elena Botella, Meredith Broussard, David Cassel, Arthur Daemmrich, Charles Duan, Quinn DuPont, Claire L. Evans, Hany Farid, James Grimmelmann, Katie Hafner, Susan C. Herring, Syeda Gulshan Ferdous Jana, Lowen Liu, John MacCormick, Brian McCullough, Charlton McIlwain, Lily Hay Newman, Margaret O'Mara, Will Oremus, Nick Partridge, Benjamin Pope, Joy Lisi Rankin, Afsaneh Rigot, Ellen R. Stofan, Lee Vinsel, Josephine Wolff, and Ethan Zuckerman.**

GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND. 2ND EDITION

PROCEEDINGS OF THE TENTH INTERNATIONAL SYMPOSIUM ON GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND, IS-CAMBRIDGE 2022, CAMBRIDGE, UNITED KINGDOM, 27-29 JUNE 2022

CRC Press **GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND comprises a collection of 112 contributions presented at the Tenth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground, held in Cambridge, United Kingdom, 27-29th June 2022. This 2nd edition also includes four general reports on the symposium themes which give an overview of the papers submitted to the symposium, covered in four technical sessions. The symposium is the latest in a series which began in New Delhi in 1994, and was followed by symposia in London (1996), Tokyo (1999), Toulouse (2002), Amsterdam (2005), Shanghai (2008), Rome (2011), Seoul (2014) and Sao Paulo (2017). This symposium was organised by the Geotechnical Research Group at the University of Cambridge, under the auspices of the Technical Committee TC204 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). Geotechnical Aspects of Underground Construction in Soft Ground includes contributions from more than 25 countries on the research, design and construction of underground works in soft ground. The contributions cover the following themes: Field case studies Sensing technologies and monitoring for underground construction in soft ground Physical and numerical modelling of tunnels and deep excavations in soft ground Seismic response of underground infrastructure in soft ground Design and application of ground improvement for underground construction Ground movements, interaction with existing structures and mitigation measures Similar to previous editions, GEOTECHNICAL ASPECTS OF UNDERGROUND CONSTRUCTION IN SOFT GROUND represents a valuable source of reference on the current practice of analysis, design, and construction of tunnels and deep excavations in soft ground. The book is particularly aimed at academics and professionals interested in geotechnical and underground engineering.**

LARGE-SCALE DISK FAILURE PREDICTION

PAKDD 2020 COMPETITION AND WORKSHOP, AI OPS 2020, FEBRUARY 7 - MAY 15, 2020, REVISED SELECTED PAPERS

Springer Nature **This book constitutes the thoroughly refereed post-competition proceedings of the AI Ops Competition**

on Large-Scale Disk Failure Prediction, conducted between February 7th and May 15, 2020 on the Alibaba Cloud Tianchi Platform. A dedicated workshop, featuring the best performing teams of the competition, was held at the 24th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2020, in Singapore, in April 2019. Due to the COVID-19 pandemic, the workshop was hosted online. This book includes 13 selected contributions: an introduction to dataset, selected approaches of the competing teams and the competition summary, describing the competition task, practical challenges, evaluation metrics, etc.

FOUNDATIONS OF TAXATION LAW 2022

Cambridge University Press **Foundations of Taxation Law is a clear, comprehensive introduction to the policy, principles and practice of Australia's taxation system. An introductory guide for law and business students and tax practitioners, the text blends policy issues, taxation theory, technical 'black letter law' and commercial practice into a succinct, principled text.**

THE INDIA–US PARTNERSHIP

$1 TRILLION BY 2030

Oxford University Press **The story of US - India relations is one of unfulfilled potential. Despite their common commitment to democracy, diversity and free markets, their short and long term objectives have not aligned in a way to create a robust economic and political partnership. These two nations, which will soon be the second and the third largest economies in the world, must find ways to increase their economic integration over the next 15 years through institutional capacity building, creating a startup culture and using India's talent pool to resolve complex global problems. Engaging the question of bilateral partnership from the perspectives of investment, public policy and philanthropy, Acharya delves into ways in which India can approach the goal of $1 trillion worth of economic ties with the US by 2030. Backed by 62 interviews of leaders from business, government, civil society and the academia and 30 case studies on the growing impact of American organizations on the Indian economy and of Indians on the American economy, this study highlights organizations that are inspirational models for their sectors and are aiming at realizing a trillion-dollar, long-term economic partnership between India and America.**

ADVANCING THE FRONTIERS OF MONETARY POLICY

International Monetary Fund **Contributors working at the International Monetary Fund present 14 chapters on the development of monetary policy over the past quarter century through the lens of the evolution of inflation-forecast targeting. They describe the principles and practices of inflation-forecast targeting, including managing expectations, the implementation of a forecasting and policy analysis system, monetary operations, monetary policy and financial stability, financial conditions, and transparency and communications; aspects of inflation-forecast targeting in Canada, the Czech Republic, India, and the US; and monetary policy challenges faced by low-income countries and how inflation-forecast targeting can provide an anchor in countries with different economic structures and circumstances.**

TOPICAL ISSUES OF RATIONAL USE OF NATURAL RESOURCES

PROCEEDINGS OF THE INTERNATIONAL FORUM-CONTEST OF YOUNG RESEARCHERS, APRIL 18-20, 2018, ST. PETERSBURG, RUSSIA

CRC Press **Topical Issues of Rational Use of Natural Resources contains the contributions presented at International Forum-Contest of Young Researchers 2018 (St. Petersburg Mining University, Russia, 18-20 April 2018). The Forum-Contest is an excellent opportunity for young researchers to present their work to the scientific community involved in the extraction and processing of natural resources. The topics of the book include: • Prospecting and exploration of mineral deposits • Development of solid minerals deposits and safety of mining operations • Development of oil and gas fields and transportation of crude hydrocarbons • Modern technologies of construction work applied in the mineral complex • Metallurgy. Physical and chemical technologies of hydrocarbons treatment • Equipment, transport service and energy efficiency of mining enterprises • Economic tools of innovative development • Environmental protection • Geo information systems and nanotechnologies Topical Issues of Rational Use of Natural Resources collects the best reports presented at the Forum-Contest, and will be of interest to academics and professionals involved in the extraction and processing of natural resources.**

HYBRID ADVANCED OPTIMIZATION METHODS WITH EVOLUTIONARY COMPUTATION TECHNIQUES IN ENERGY FORECASTING

MDPI **This book is a printed edition of the Special Issue "Hybrid Advanced Optimization Methods with Evolutionary**

Computation Techniques in Energy Forecasting" that was published in Energies

REDISTRIBUTION, INEQUALITY, AND GROWTH

International Monetary Fund **The Fund has recognized in recent years that one cannot separate issues of economic growth and stability on one hand and equality on the other. Indeed, there is a strong case for considering inequality and an inability to sustain economic growth as two sides of the same coin. Central to the Fund's mandate is providing advice that will enable members' economies to grow on a sustained basis. But the Fund has rightly been cautious about recommending the use of redistributive policies given that such policies may themselves undercut economic efficiency and the prospects for sustained growth (the so-called "leaky bucket" hypothesis written about by the famous Yale economist Arthur Okun in the 1970s). This SDN follows up the previous SDN on inequality and growth by focusing on the role of redistribution. It finds that, from the perspective of the best available macroeconomic data, there is not a lot of evidence that redistribution has in fact undercut economic growth (except in extreme cases). One should be careful not to assume therefore—as Okun and others have—that there is a big tradeoff between redistribution and growth. The best available macroeconomic data do not support such a conclusion.**

SSC JUNIOR ENGINEERS MECHANICAL ENGINEERING PAPER 1 2019

Arihant Publications India limited **Staff Selection Commission (SSC) is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices. "SSC Junior Engineer CPWD/MES Mechanical Engineering" for Paper I Computer-based test (CBT) 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination. It is divided into three parts covering General Intelligence and Reasoning, General Awareness, and Mechanical along with their chapters equipped with complete theories. Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity. It has 3 solved papers of 2015, 2017 and 2018 with detailed solutions. It also provides 3 mock tests for self-practice. Enclosed with such effective set of study material, it is hoped that it will ensure success in this upcoming examination. TOC Solved Paper 2018, Solved Paper 2017, Solved Paper 2015, PART A - General Intelligence & Reasoning, PART B - General Awareness, PART C –Mechanical, 3 Mock Test**

FRONTIERS IN OFFSHORE GEOTECHNICS III

CRC Press **Frontiers in Offshore Geotechnics III comprises the contributions presented at the Third International Symposium on Frontiers in Offshore Geotechnics (ISFOG, Oslo, Norway, 10-12 June 2015), organised by the Norwegian Geotechnical Institute (NGI). The papers address current and emerging geotechnical engineering challenges facing those working in off**

FINANCE AND DEVELOPMENT, JUNE 2016

International Monetary Fund **This article profiles iconoclastic economist Dani Rodrik, the Harvard professor whose warnings about the downsides of globalization proved prescient. Rodrik has spent most of his professional life at Ivy League institutions. He has a bachelor's degree from Harvard and master's and PhD degrees from Princeton, followed by a teaching career at Harvard and Columbia. Rodrik's warnings that the benefits of free trade were more apparent to economists than to others were prescient. His skepticism about the benefits of unfettered flows of capital across national boundaries is now conventional wisdom. His successful attack on the so-called Washington Consensus of policies to generate economic growth has made governments and international organizations like the IMF and the World Bank admit that there are many policy recipes that can generate growth. Rodrik's caution about financial globalization is now widely shared, including at the IMF.**

THE CONSOLIDATED MEDIUM-TERM INCOME AND EXPENDITURE FRAMEWORK

International Monetary Fund **The medium-term income projections have been updated since the last estimate provided to the Executive Board in April 2013. Lending income is higher compared with the earlier estimates as a result of new arrangements approved since April 2013. Non-lending income is lower primarily due to revised projections for investment income. The updated expenditure path assumes the net administrative budget remains constant in real terms at the FY 2014 level, implying a nominal medium-term path that is somewhat higher than in the April 2013 projections. Precautionary balances are projected to reach the current target of SDR 20 billion in FY 2018. The projections also illustrate a broad balance between income and expenditures even if lending were to return to pre-crisis levels.**

HANDBOOK OF RESEARCH ON FOUNDATIONS AND APPLICATIONS OF INTELLIGENT BUSINESS ANALYTICS

IGI Global **Intelligent business analytics is an emerging technology that has become a mainstream market adopted broadly across industries, organizations, and geographic regions. Intelligent business analytics is a current focus for research and development across academia and industries and must be examined and considered thoroughly so businesses can apply the technology appropriately. The Handbook of Research on Foundations and Applications of Intelligent Business Analytics examines the technologies and applications of intelligent business analytics and discusses the foundations of intelligent analytics such as intelligent mining, intelligent statistical modeling, and machine learning. Covering topics such as augmented analytics and artificial intelligence systems, this major reference work is ideal for scholars, engineers, professors, practitioners, researchers, industry professionals, academicians, and students.**