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Artificial Intelligence in Asset Management CFA Institute Research Foundation Artificial intelligence (AI) has grown in presence in asset management and has revolutionized the sector in many ways. It has improved portfolio management, trading, and risk management practices by increasing efficiency, accuracy, and compliance. In particular, AI techniques help construct portfolios based on more accurate risk and return forecasts and more complex constraints. Trading algorithms use AI to devise novel trading signals and execute trades with lower transaction costs. AI also improves risk modeling and forecasting by generating insights from new data sources. Finally, robo-advisors owe a large part of their success to AI techniques. Yet the use of AI can also create new risks and challenges, such as those resulting from model opacity, complexity, and reliance on data integrity. **Portfolio Theory and Management Oxford University Press** Portfolio Theory and Management examines the foundations of portfolio management with the contributions of financial pioneers up to the latest trends. The book discusses portfolio theory and management both before and after the 2007-2008 financial crisis. It takes a global focus by highlighting cross-country differences and practices. **Education and Inequality The South African Case** "Following the international literature, income inequality decompositions on data from contemporary South Africa show that the labour market is the key driver of overall household inequality. In order to understand one of the channels driving this labour market inequality, we use national household survey data to review changing returns to education in the South African labour market over the last 15 years; with a focus on both the returns to getting employment as well as the earnings returns for those that have employment. We show that South Africa has experienced a skills twist with the returns to matric and post-secondary education rising and the returns to levels of education below this remaining constant. Then, based on a regression based decomposition of earnings inequality, we show how this has impacted earnings inequality. Indeed, the increase in returns to post-secondary education has directly counteracted the equalising gains that have been made by increased educational attainment, resulting in consistent levels of inequality over time"--Page [1]. **Value Management of Construction Projects John Wiley & Sons** Value Management is a philosophy, set of principles and a structured management methodology for improving organisational decision-making and value-for-money. The second edition builds on the success of the first edition by extending the integrated value philosophy, methodology and tool kit to describe the application of Value Management to the areas of service delivery, asset management, and, Programmes, in addition to Projects, products and processes. Value Management is a well-established methodology in the international construction industry, and in the UK has been endorsed as good practice in a range of government sponsored reports. In this book the authors have addressed the practical opportunities and difficulties of Value Management by synthesising the background, international developments, benchmarking and their own extensive consultancy and action research experience in Value Management to provide a comprehensive package of theory and practice. The second edition retains the structure of the first edition, covering methods and practices, frameworks of value and the future of value management. It has been thoroughly updated, and a number of new chapters added to encapsulate further extensions to current theory and practice. In particular, the new edition responds to: A range of recent UK industry and government publications; and most notably BS EN 16271:2012 - Value management: Functional expression of the need and functional performance specification; the imminent update of BS EN 12973:2000 Value Management; BS EN 1325 Value Management - Vocabulary, Terms and definitions; the changes to "Value for Europe" governing the training and certification of Value Management in European Union countries; the UK Government's Management of Value (MoV) initiative, together with other leading reports, international guidance and standards on Value Management. Research in Value Management undertaken since publication of the first edition. Changes in Value Management practice particularly in Programmes and Projects. Developments in the theory of value, principally value for money measures, whole life value option appraisal, and benefits realisation. Initiatives in asset management initiatives covering the management of physical infrastructure, for example the recent launch of a suite of three standards under the generic title of BS ISO 55000: 2014 Asset Management, and its predecessor BSI PAS55 2008 "Asset Management: Specification For The Optimized Management Of Physical Assets" The second edition contains a dedicated chapter of exemplar case studies drawn from the authors' experience, selected to demonstrate the new areas of theory and practice. An Appendix includes an extensive set of tools and techniques of use in Value Management practice. Construction clients, including those in both the public and private sectors, and professionals such as construction cost consultants, quantity surveyors, architects, asset managers, construction engineers, and construction managers will all find Value Management of Construction Projects to be essential reading. It will also be of interest to researchers and students on construction related courses in Higher Education - particularly those at final year undergraduate and at Masters level. **Equine Viruses** The Food and Agriculture Organization of the United Nations has recently estimated that the world equid population exceeds 110 million. Working equids (horses,

ponies, donkeys, and mules) remain essential to ensure the livelihood of poor communities around the world. In many developed countries, the equine industry has significant economical weight, with around 7 million horses in Europe alone. The close relationship between humans and equids and the fact that the athlete horse is the terrestrial mammal that travels the most worldwide after humans are important elements to consider in the transmission of pathogens and diseases, amongst equids and to other species. The potential effect of climate change on vector ecology and vector-borne diseases is also of concern for both human and animal health. In this Special Issue, we intend to explore our understanding of a panel of equine viruses, looking at their pathogenicity, their importance in terms of welfare and potential association with diseases, their economic importance and impact on performance, and how their identification can be helped by new technologies and methods.

RNA Metabolism in Neurodegenerative Diseases Springer It has become evident over the last years that abnormalities in RNA processing play a fundamental part in the pathogenesis of neurodegenerative diseases. Cellular viability depends on proper regulation of RNA metabolism and subsequent protein synthesis, which requires the interplay of many processes including transcription, pre-mRNA splicing, mRNA editing as well as mRNA stability, transport and translation. Dysfunction in any of these processes, often caused by mutations in the coding and non-coding RNAs, can be very destructive to the cellular environment and consequently impair neural viability. The result of this RNA toxicity can lead to a toxic gain of function or a loss of function, depending on the nature of the mutation. For example, in repeat expansion disorders, such as the newly discovered hexanucleotide repeat expansion in the C9orf72 gene found in amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD), a toxic gain of function leads to the formation of RNA foci and the sequestration of RNA binding proteins (RBPs). This in return leads to a loss of function of those RBPs, which is hypothesized to play a significant part in the disease progression of ALS and FTD. Other toxicities arising from repeat expansions are the formation of RNA foci, bi-directional transcription and production of repeat associated non-ATG (RAN) translation products. This book will touch upon most of these disease mechanisms triggered by aberrant RNA metabolism and will therefore provide a broad perspective of the role of RNA processing and its dysfunction in a variety of neurodegenerative disorders, including ALS, FTD, Alzheimer's disease, Huntington's disease, spinal muscular atrophy, myotonic dystrophy and ataxias. The proposed authors are leading scientists in the field and are expected to not only discuss their own work, but to be inclusive of historic as well as late breaking discoveries. The compiled chapters will therefore provide a unique collection of novel studies and hypotheses aimed to describe the consequences of altered RNA processing events and its newest molecular players and pathways.

e-Infrastructure and e-Services for Developing Countries 10th EAI International Conference, AFRICOMM 2018, Dakar, Senegal, November 29-30, 2019, Proceedings Springer This book constitutes the thoroughly refereed proceedings of the 10th EAI International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2018, held in Dakar, Senegal, in November 2018. The 28 full papers were carefully selected from 49 submissions. The accepted papers provide a wide range of research topics including e-health, environment, cloud, VPN and overlays, networks, services, e-Learning, agriculture, IoT, social media, mobile communication and security.

Diagnostics in Plant Breeding Springer Science & Business Media "Diagnostics in Plant Breeding" is systematically organizing cutting-edge research reviews on the development and application of molecular tools for the prediction of plant performance. Given its significance for mankind and the available research resources, medical sciences are leading the area of molecular diagnostics, where DNA-based risk assessments for various diseases and biomarkers to determine their onset become increasingly available. So far, most research in plant genomics has been directed towards understanding the molecular basis of biological processes or phenotypic traits. From a plant breeding perspective, however, the main interest is in predicting optimal genotypes based on molecular information for more time- and cost-efficient breeding schemes. It is anticipated that progress in plant genomics and in particular sequence technology made recently will shift the focus from "explanatory" to "predictive" in crop science. This book assembles chapters on all areas relevant to development and application of predictive molecular tools in plant breeding by leading authorities in the respective areas.

Archaeological Research in the Valley of the Kings and Ancient Thebes Papers Presented in Honor of Richard H. Wilkinson Key Themes in Health and Social Care A Companion to Learning Routledge Key Themes in Health and Social Care is a learning resource for students in health and social care. It provides an overview of foundational issues and core themes in the field and introduces key areas of debate, moving from an introductory level to in-depth discussion as the book progresses. Divided into three parts: the first part sets the scene, addressing introductory psychology and sociology, social policy, equality and diversity, skills for practice, and working with people the second part considers key themes such as the contribution of philosophy and politics; criminal justice; management of services; the relationship between place and wellbeing; research in health and social care; theories of counselling; housing and the built environment the third part looks at discrete areas of practice such as mental health; substance abuse, protection work; health promotion; disability studies; working with men; child welfare and public responsibility. Each chapter begins with an outline of the content and learning outcomes and includes reflective exercises to allow students to reflect on what they have read, review their learning and consolidate their understanding. Time-pressed readers wanting to 'dip into' the book for relevant areas can do so but, read from cover to cover, the book provides a comprehensive introduction to the key areas of contemporary health and social care practice. It will be particularly helpful for students undertaking health and social care undergraduate and foundation degrees.

Beckett and Sade Cambridge University Press Much has been written on Beckett and Sade, yet nothing systematic has been produced. This Element is systematic by adopting a chronological order, which is necessary given the complexity of Beckett's varying assessments of Sade. Beckett mentioned Sade early in his career, with Proust as a first guide. His other sources were Guillaume Apollinaire and Mario Praz's book, *La Carne, La morte e il Diavolo Nella Letteratura Romantica* (1930), from which he took notes about sadism for his *Dream Notebook*. Dante's meditation on the absurdity of justice provides closure facing Beckett's wonder at the pervasive presence of sadism in humans.

The Romance of Research Data Mining and Big Data Second International Conference, DMBD 2017, Fukuoka, Japan, July 27 - August 1, 2017, Proceedings Springer This book constitutes the refereed proceedings of the Second International Conference on Data Mining and Big Data, DMBD 2017, held in Fukuoka, Japan, in July/August 2017. The 53 papers presented in this volume were carefully reviewed and selected from 96 submissions. They were organized in topical sections named: association analysis; clustering; prediction; classification; schedule and sequence analysis; big data; data analysis; data mining; text mining; deep learning; high performance computing;

knowledge base and its framework; and fuzzy control. **Rock Slope Engineering Third Edition CRC Press** This classic handbook deals with the geotechnical problems of rock slope design. It has been written for the non-specialist mining or civil engineer, with worked examples, design charts, coverage of more detailed analytical methods, and of the collection and interpretation of geological and groundwater information and tests for the mechanical properties of rock. **Sustainable Ecological Engineering Design Selected Proceedings from the International Conference of Sustainable Ecological Engineering Design for Society (SEEDS) 2019 Springer Nature** Through research and proven practice, the aim of the International Conference of Sustainable Ecological Engineering Design for Society (SEEDS) is to foster ideas on how to reduce negative impacts on the environment while providing for the health and well-being of society. The professions and fields of research required to ensure buildings meet user demands and provide healthy enclosures are many and diverse. The SEEDS conference addresses the interdependence of people, the built and natural environments, and recognizes the interdisciplinary and international themes necessary to assemble the knowledge required for positive change. **Advances in Physical, Social & Occupational Ergonomics Proceedings of the AHFE 2020 Virtual Conferences on Physical Ergonomics and Human Factors, Social & Occupational Ergonomics and Cross-Cultural Decision Making, July 16-20, 2020, USA Springer Nature** This book reports on cutting-edge findings and developments in physical, social and occupational ergonomics. It covers a broad spectrum of studies and evaluation procedures concerning physical and mental workload, work posture and ergonomic risk. Further, it reports on significant advances in the design of services and systems, including those addressing special populations, for purposes such as health, safety and education, and discusses solutions for a better and safer integration of humans, automated systems and digital technologies. The book also analyzes the impact of culture on people's cognition and behavior, providing readers with timely insights into theories on cross-cultural decision-making, and their diverse applications for a number of purposes in businesses and societies. Based on three AHFE 2020 conferences (the AHFE 2020 Virtual Conference on Physical Ergonomics and Human Factors, the AHFE 2020 Virtual Conference on Social & Occupational Ergonomics, and the AHFE 2020 Virtual Conference on Cross-Cultural Decision Making), it provides readers with a comprehensive overview of the current challenges in physical, social and occupational ergonomics, including those imposed by technological developments, highlights key connections between them, and puts forward optimization strategies for sociotechnical systems, including their organizational structures, policies and processes. **Computational Methods and Data Engineering Proceedings of ICMDE 2020, Volume 2 Springer Nature** This book gathers selected high-quality research papers from the International Conference on Computational Methods and Data Engineering (ICMDE 2020), held at SRM University, Sonipat, Delhi-NCR, India. Focusing on cutting-edge technologies and the most dynamic areas of computational intelligence and data engineering, the respective contributions address topics including collective intelligence, intelligent transportation systems, fuzzy systems, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, and speech processing. **The Interior West A Fire Survey University of Arizona Press** "Surveys the fire scene characteristic of Nevada, Utah, and western Colorado through a mixture of journalism, history, and literary imagination that moves the topic beyond the usual science and policy formulations"--Provided by publisher. **3D Radiative Transfer in Cloudy Atmospheres Springer Science & Business Media** Developments in three-dimensional cloud radiation over the past few decades are assessed and distilled into this contributed volume. Chapters are authored by subject-matter experts who address a broad audience of graduate students, researchers, and anyone interested in cloud-radiation processes in the solar and infrared spectral regions. After two introductory chapters and a section on the fundamental physics and computational techniques, the volume extensively treats two main application areas: the impact of clouds on the Earth's radiation budget, which is an essential aspect of climate modeling; and remote observation of clouds, especially with the advanced sensors on current and future satellite missions. **Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools Volume 1: Fundamentals, Mapping and Monitoring Springer** This interactive book presents comprehensive information on the fundamentals of landslide types and dynamics, while also providing a set of PPT, PDF, and text tools for education and capacity development. As the core activity of the Sendai Partnerships, the International Consortium of Landslides has created this two-volume work, which will be regularly updated and improved over the coming years, based on responses from users and lessons learned during its application. **Rapid Modelling for Increasing Competitiveness Tools and Mindset Springer Science & Business Media** A Perspective on Two Decades of Rapid Modeling It is an honor for me to be asked to write a foreword to the Proceedings of the 1st Rapid Modeling Conference. In 1987, when I coined the term "Rapid Modeling" to denote queuing modeling of manufacturing systems, I never imagined that two decades later there would be an international conference devoted to this topic! I am delighted to see that there will be around 40 presentations at the conference by leading researchers from around the world, and about half of these presentations are represented by written papers published in this book. I congratulate the conference organizers and program committee on the success of their efforts to hold the first ever conference on Rapid Modeling. Attendees at this conference might find it interesting to learn about the history of the term Rapid Modeling in the context it is used here. During the fall of 1986 I was invited to a meeting at the Headquarters of the Society of Manufacturing Engineers (SME) in Dearborn, Michigan. By that time I had successfully demonstrated several industry applications of queuing network models at leading manufacturers in the USA. Although in principle the use of queuing networks to model manufacturing systems was well known in the OR/MS community and many papers had been published, the actual use of such models by manufacturing professionals was almost nonexistent. **High-Utility Pattern Mining Theory, Algorithms and Applications Springer** This book presents an overview of techniques for discovering high-utility patterns (patterns with a high importance) in data. It introduces the main types of high-utility patterns, as well as the theory and core algorithms for high-utility pattern mining, and describes recent advances, applications, open-source software, and research opportunities. It also discusses several types of discrete data, including customer transaction data and sequential data. The book consists of twelve chapters, seven of which are surveys presenting the main subfields of high-utility pattern mining, including itemset mining, sequential pattern mining, big data pattern mining, metaheuristic-based approaches, privacy-preserving pattern mining, and pattern visualization. The remaining five chapters describe key techniques and applications, such as discovering concise representations and regular patterns. **The Writer of Modern Life Essays on Charles Baudelaire Harvard University Press** "In this book Benjamin reveals Baudelaire as a social poet of the very first rank. More than a series of

studies of Baudelaire, these essays show the extent to which Benjamin identifies with the poet and enable him to explore his own notion of heroism."--BOOK JACKET. **Managing Protected Areas in Central and Eastern Europe Under Climate Change Springer Science & Business Media** Beginning with an overview of data and concepts developed in the EU-project HAbIT-CHANGE, this book addresses the need for sharing knowledge and experience in the field of biodiversity conservation and climate change. There is an urgent need to build capacity in protected areas to monitor, assess, manage and report the effects of climate change and their interaction with other pressures. The contributors identify barriers to the adaptation of conservation management, such as the mismatch between planning reality and the decision context at site level. Short and vivid descriptions of case studies, drawn from investigation areas all over Central and Eastern Europe, illustrate both the local impacts of climate change and their consequences for future management. These focus on ecosystems most vulnerable to changes in climatic conditions, including alpine areas, wetlands, forests, lowland grasslands and coastal areas. The case studies demonstrate the application of adaptation strategies in protected areas like National Parks, Biosphere Reserves and Natural Parks, and reflect the potential benefits as well as existing obstacles. A general section provides the necessary background information on climate trends and their effects on abiotic and biotic components. Often, the parties to policy change and conservation management, including managers, land users and stakeholders, lack both expertise and incentives to undertake adaptation activities. The authors recognise that achieving the needed changes in behavior – habit – is as much a social learning process as a matter of science-based procedure. They describe the implementation of modeling, impact assessment and monitoring of climate conditions, and show how the results can support efforts to increase stakeholder involvement in local adaptation strategies. The book concludes by pointing out the need for more work to communicate the cross-sectoral nature of biodiversity protection, the value of well-informed planning in the long-term process of adaptation, the definition of acceptable change, and the motivational value of exchanging experience and examples of good practice. **A Handbook for DNA-Encoded Chemistry Theory and Applications for Exploring Chemical Space and Drug Discovery John Wiley & Sons** This book comprehensively describes the development and practice of DNA-encoded library synthesis technology. Together, the chapters detail an approach to drug discovery that offers an attractive addition to the portfolio of existing hit generation technologies such as high-throughput screening, structure-based drug discovery and fragment-based screening. The book: Provides a valuable guide for understanding and applying DNA-encoded combinatorial chemistry Helps chemists generate and screen novel chemical libraries of large size and quality Bridges interdisciplinary areas of DNA-encoded combinatorial chemistry – synthetic and analytical chemistry, molecular biology, informatics, and biochemistry Shows medicinal and pharmaceutical chemists how to efficiently broaden available “chemical space” for drug discovery Provides expert and up-to-date summary of reported literature for DNA-encoded and DNA-directed chemistry technology and methods **New Global Perspectives on Archaeological Prospection 13th International Conference on Archaeological Prospection, 28 August - 1 September 2019, Sligo - Ireland Archaeopress Publishing Ltd** This volume presents over 90 papers from the 13th International Conference on Archaeological Prospection 2019, Sligo. Papers address archaeological prospection techniques, methodologies and case studies from 33 countries across Africa, Asia, Australasia, Europe and North America, reflecting current and global trends in archaeological prospection. **Information Modelling and Knowledge Bases III Foundations, Theory and Applications IOS Press** Papers direct the focus of interest to the development and use of conceptual models in information systems of various kinds and aim at improving awareness about general or specific problems and solutions in conceptual modelling. **Metal Vinylidenes and Allenylidenes in Catalysis From Reactivity to Applications in Synthesis John Wiley & Sons** Focusing on preparation and applications in synthesis and catalysis, this book finally closes a gap in the literature by summarizing this hot topic for the first time. As such, it gathers in one volume the key features of metal vinylidene and allenylidene complexes as well as reactive species and covers applications in metathesis, polymerization, molecular materials, carbon rich compounds and fine chemical production. The emphasis here is on the selective transformations of alkynes and enynes plus simple and complex molecules containing a triple C-C bond. The result is a must-have ready reference for organic, catalytic, complex, theoretical and polymer chemists, as well as those working with/on organometallics. **In Vitro Mutagenesis: Methods and Protocols Methods in Molecular Biology In vitro mutagenesis** remains a critical experimental approach for investigating gene and protein function at the cellular level. This volume provides a wide variety of updated and novel approaches for performing in vitro mutagenesis using such methods as genome editing, transposon (Tn) mutagenesis, site-directed, and random mutagenesis. **In Vitro Mutagenesis: Methods and Protocols** guides readers through methods for gene and genome editing, practical bioinformatics approaches for identifying mutagenesis targets, and novel site-directed and random mutagenesis approaches aimed at gaining a better understanding of protein-protein and protein-cofactor interactions. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *In Vitro Mutagenesis: Methods and Protocols* aims to provide a highly accessible and practical manual for current and future molecular biology researchers, from the beginner practitioner to the advanced investigator in fields such as molecular genetics, biochemistry, and biochemical and metabolic engineering. **Recognizing Textual Entailment Models and Applications Morgan & Claypool Publishers** In the last few years, a number of NLP researchers have developed and participated in the task of Recognizing Textual Entailment (RTE). This task encapsulates Natural Language Understanding capabilities within a very simple interface: recognizing when the meaning of a text snippet is contained in the meaning of a second piece of text. This simple abstraction of an exceedingly complex problem has broad appeal partly because it can be conceived also as a component in other NLP applications, from Machine Translation to Semantic Search to Information Extraction. It also avoids commitment to any specific meaning representation and reasoning framework, broadening its appeal within the research community. This level of abstraction also facilitates evaluation, a crucial component of any technological advancement program. This book explains the RTE task formulation adopted by the NLP research community, and gives a clear overview of research in this area. It draws out commonalities in this research, detailing the intuitions behind dominant approaches and their theoretical underpinnings. This book has been written with a wide audience in mind, but is intended to inform all readers about the state of the art in this fascinating field, to give a clear understanding of the principles underlying RTE research to date, and to highlight the short- and long-term research goals

that will advance this technology. **Chemical Process Safety Fundamentals with Applications Pearson Education** Combines academic theory with practical industry experience Updated to include the latest regulations and references Covers hazard identification, risk assessment, and inherent safety Case studies and problem sets enhance learning Long-awaited revision of the industry best seller. This fully revised second edition of Chemical Process Safety: Fundamentals with Applications combines rigorous academic methods with real-life industrial experience to create a unique resource for students and professionals alike. The primary focus on technical fundamentals of chemical process safety provides a solid groundwork for understanding, with full coverage of both prevention and mitigation measures. Subjects include: Toxicology and industrial hygiene Vapor and liquid releases and dispersion modeling Flammability characterization Relief and explosion venting In addition to an overview of government regulations, the book introduces the resources of the AIChE Center for Chemical Process Safety library. Guidelines are offered for hazard identification and risk assessment. The book concludes with case histories drawn directly from the authors' experience in the field. A perfect reference for industry professionals, Chemical Process Safety: Fundamentals with Applications, Second Edition is also ideal for teaching at the graduate and senior undergraduate levels. Each chapter includes 30 problems, and a solutions manual is now available for instructors. **Density Functional Theory A Practical Introduction John Wiley & Sons** Demonstrates how anyone in math, science, and engineering can master DFT calculations Density functional theory (DFT) is one of the most frequently used computational tools for studying and predicting the properties of isolated molecules, bulk solids, and material interfaces, including surfaces. Although the theoretical underpinnings of DFT are quite complicated, this book demonstrates that the basic concepts underlying the calculations are simple enough to be understood by anyone with a background in chemistry, physics, engineering, or mathematics. The authors show how the widespread availability of powerful DFT codes makes it possible for students and researchers to apply this important computational technique to a broad range of fundamental and applied problems. Density Functional Theory: A Practical Introduction offers a concise, easy-to-follow introduction to the key concepts and practical applications of DFT, focusing on plane-wave DFT. The authors have many years of experience introducing DFT to students from a variety of backgrounds. The book therefore offers several features that have proven to be helpful in enabling students to master the subject, including: Problem sets in each chapter that give readers the opportunity to test their knowledge by performing their own calculations Worked examples that demonstrate how DFT calculations are used to solve real-world problems Further readings listed in each chapter enabling readers to investigate specific topics in greater depth This text is written at a level suitable for individuals from a variety of scientific, mathematical, and engineering backgrounds. No previous experience working with DFT calculations is needed. **Machine Learning for Asset Managers Cambridge University Press** Successful investment strategies are specific implementations of general theories. An investment strategy that lacks a theoretical justification is likely to be false. Hence, an asset manager should concentrate her efforts on developing a theory rather than on backtesting potential trading rules. The purpose of this Element is to introduce machine learning (ML) tools that can help asset managers discover economic and financial theories. ML is not a black box, and it does not necessarily overfit. ML tools complement rather than replace the classical statistical methods. Some of ML's strengths include (1) a focus on out-of-sample predictability over variance adjudication; (2) the use of computational methods to avoid relying on (potentially unrealistic) assumptions; (3) the ability to "learn" complex specifications, including nonlinear, hierarchical, and noncontinuous interaction effects in a high-dimensional space; and (4) the ability to disentangle the variable search from the specification search, robust to multicollinearity and other substitution effects. **Design and Construction of Berm Breakwaters World Scientific** Modern design of berm breakwaters began about thirty years ago. However, to date, there has been a lack of a well-established, formal design methodology on berm breakwaters. The authors Dr Jentsje van der Meer and Sigurdur Sigurdarson combine over 40 years of collective experience working with breakwaters to put forward a design framework in Design and Construction of Berm Breakwaters; covering the science and design practices of berm breakwater structures. The original design consisted of mass armoured berms that reshaped into statically stable S-shaped slopes. The design was adopted in Iceland and eventually led to a development with more stable structures by using available rock sizes, large rock, and more rock gradings than just "small rock (core)" and "large rock (berm)". This more stable and only partly reshaping structure is called the Icelandic-type berm breakwater. Written for researchers and practitioners, the volume consists of chapters on geometrical designs of the berm breakwater cross-section, including berm reshaping and wave overtopping, quarry and project management, as well as blasting and sorting techniques, designs for various wave conditions and available rock classes, and case studies of already constructed berm breakwaters. **Research Methods in Education Routledge** This fully updated sixth edition of the international bestseller Research Methods in Education covers the whole range of methods currently employed by educational research at all stages. It is divided into five main parts: the context of educational research; planning educational research; styles of educational research; strategies for data collection and researching; and data analysis. The book also contains references to a comprehensive dedicated website of accompanying materials. The sixth edition includes new material on: complexity theory, ethics, sampling and sensitive educational research experimental research, questionnaire design and administration with practical guidance qualitative and quantitative data analysis, with practical examples internet based research. Research Methods in Education is essential reading for the professional researcher and continues to be the standard text for students and lecturers in educational research. To access the dedicated website of accompanying materials, please visit: www.routledge.com/textbooks/9780415368780. **Lithium Ion Batteries New Developments BoD - Books on Demand** The eight chapters in this book cover topics on advanced anode and cathode materials, materials design, materials screening, electrode architectures, diagnostics and materials characterization, and electrode/electrolyte interface characterization for lithium batteries. All these topics were carefully chosen to reflect the most recent advances in the science and technology of rechargeable Li-ion batteries, to provide wide readership with a platform of subjects that will help in the understanding of current technologies, and to shed light on areas of deficiency and to energize prospects for future advances. **Biocommunication of Archaea Springer** Archaea represent a third domain of life with unique properties not found in the other domains. Archaea actively compete for environmental resources. They perceive themselves and can distinguish between 'self' and 'non-self'. They process and evaluate available information and then modify their behaviour accordingly. They assess their surroundings, estimate how much energy they need for particular goals, and then realize the optimum variant. These highly diverse competences show us that this is possible owing to

sign(al)ing)- mediated communication processes within archaeal cells (intra-organismic), between the same, related and different archaeal species (interorganismic), and between archaea and nonarchaeal organisms (transorganismic). This is crucial in coordinating growth and development, shape and dynamics. Such communication must function both on the local level and between widely separated colony parts. This allows archaea to coordinate appropriate response behaviors in a differentiated manner to their current developmental status and physiological influences. This book will orientate further investigations on how archaeal ecosphere inhabitants communicate with each other to coordinate their behavioral patterns and whats the role of viruses in this highly dynamic interactional networks.

Transport Access Manual Good Governance and Modern International Financial Institutions AIB Yearbook of International Law 2018 Aib Yearbook of International The first volume of the AIB Yearbook of International Law (AYIL) examines a series of dimensions to the good governance of modern International Financial Institutions. **Forgotten Lives : Early History of a Coastal Village Southampton, Ont. : Bruce County Museum & Archives**