

Predicted Paper Fp2 June 2014 Maths Edexcel

This book uses the beautiful theory of elliptic curves to introduce the reader to some of the deeper aspects of number theory. It assumes only a knowledge of the basic algebra, complex analysis, and topology usually taught in first-year graduate courses. An elliptic curve is a plane curve defined by a cubic polynomial. Although the problem of finding the rational points on an elliptic curve has fascinated mathematicians since ancient times, it was not until 1922 that Mordell proved that the points form a finitely generated group. There is still no proven algorithm for finding the rank of the group, but in one of the earliest important applications of computers to mathematics, Birch and Swinnerton-Dyer discovered a relation between the rank and the numbers of points on the curve computed modulo a prime. Chapter IV of the book proves Mordell's theorem and explains the conjecture of Birch and Swinnerton-Dyer. Every elliptic curve over the rational numbers has an L-series attached to it. Hasse conjectured that this L-series satisfies a functional equation, and in 1955 Taniyama suggested that Hasse's conjecture could be proved by showing that the L-series arises from a modular form. This was shown to be correct by Wiles (and others) in the 1990s, and, as a consequence, one obtains a proof of Fermat's Last Theorem. Chapter V of the book is devoted to explaining this work. The first three chapters develop the basic theory of elliptic curves. For this edition, the text has been completely revised and updated.

Unlike in the related area of bioinformatics, few books currently exist that document the techniques, tools, and algorithms of chemoinformatics. Bringing together worldwide experts in the field, the Handbook of Chemoinformatics Algorithms provides an overview of the most common chemoinformatics algorithms in a single source. After a historical persp

This proceedings volume contains selected papers presented at the 2014 International Conference on Informatics, Networking and Intelligent Computing, held in Shenzhen, China. Contributions cover the latest developments and advances in the field of Informatics, Networking and Intelligent Computing.

Chikungunya and Zika Viruses: Global Emerging Health Threats is the go-to resource for both historical and current information on this important virus that is rapidly increasing its global range. Epidemics since 2005 have spread from Africa and Asia, and through Europe, and an ongoing epidemic has caused nearly two million cases in the Americas. It causes severe crippling arthritis, with symptoms lasting for months or years. As no vaccine or treatment is available, there is international interest in the virus, thus funding opportunities for research have dramatically increased. This book presents our understanding of the virus, bringing comprehensive knowledge in a single source. Provides a comprehensive collection of the state-of-the-art on CHIKV biology in a go-to reference book Edited by leaders in the field who provide a single, up-to-date source of information Gives a better understanding of the transmission and spread of chikungunya virus, a clear, coherent description of the outcomes of infection (both acute and chronic), and its biology and risk factors Pulls relevant background information to justify projects of many professionals developing vaccines and mosquito vector control approaches

Distributed and Cloud Computing

Genetics and Genomics of Setaria

Education at a Glance 2014 OECD Indicators

Guidelines for Soil Description

Global Emerging Health Threats

The Cryptographer's Track at the RSA Conference 2014, San Francisco, CA, USA, February 25-28, 2014, Proceedings

Applied Conjoint Analysis

"Privacy is dead. The new rules for business, personal, and family reputation."--Cover.

This book constitutes the refereed proceedings of the First International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19.

This book provides annual data on the structure, finances, and performance of education systems in the OECD's 34 member countries, as well as a number of partner countries.

This open access book constitutes the refereed proceedings of the 17th International Conference on String Processing and Information Retrieval, ICOST 2019, held in New York City, NY, USA, in October 2019. The 15 full papers and 5 short papers presented in this volume were carefully reviewed and selected from 24 submissions. They cover topics such as: e-health technology design; well-being technology; biomedical and health informatics; and smart environment technology.

Topics in Cryptology -- CT-RSA 2014

Port-Hamiltonian Systems Theory

International Organizations and the Transformation of Agriculture

Elliptic Curves (Second Edition)

What Happens in Vegas Stays on YouTube

An Introductory Overview

Forecasting: principles and practice

Of the research areas devoted to biomedical sciences, the study of the brain remains a field that continually attracts interest due to the vast range of people afflicted with debilitating brain disorders and those interested in ameliorating its effects. To discover the roots of maladies and grasp the dynamics of brain functions, researchers and practitioners often turn to a process known as brain source localization, which assists in determining the source of electromagnetic signals from the brain. Aiming to promote both treatments and understanding of brain ailments, ranging from epilepsy and depression to schizophrenia and Parkinson's disease, the authors of this book provide a comprehensive

account of current developments in the use of neuroimaging techniques for brain analysis. Their book addresses a wide array of topics, including EEG forward and inverse problems, the application of classical MNE, LORETA, Bayesian based MSP, and its modified version, M-MSP. Within the ten chapters that comprise this book, clinicians, researchers, and field experts concerned with the state of brain source localization will find a store of information that can assist them in the quest to enhance the quality of life for people living with brain disorders.

Forecasting: principles and practice

Setaria viridis and *S. italica* make up a model grass system to investigate C4 photosynthesis, cell wall biosynthesis, responses to drought, herbicide, and other environmental stressors, genome dynamics, developmental genetics and morphology, and interactions with microorganisms. *Setaria viridis* (green foxtail) is one of the world's most widespread weeds, and its small size, native variation, rapidly burgeoning genetic and genomic resources, and transformability are making it the system of choice for both basic research and its translation into crop improvement. Its domesticated variant, *S. italica* (foxtail millet), is a drought-hardy cereal grown in China, India and Africa, and new breeding techniques show great potential for improving yields and nutrition for drought-prone regions. This book brings together for the first time evolutionary, genomic, genetic, and morphological analyses, together with protocols for growing and transforming *Setaria*, and approaches to high throughput genotyping and candidate gene analysis. Authors include major *Setaria* researchers from both the USA and overseas. Conjoint analysis is probably the most significant development in marketing research in the past few decades. It can be described as a set of techniques ideally suited to studying customers' decision-making processes and determining tradeoffs. Though this book is oriented towards methods and applications of conjoint analysis in marketing, conjoint methods are also applicable for other business and social sciences. After an introduction to the basic ideas of conjoint analysis the book describes the steps involved in designing a ratings-based conjoint study, it covers various methods for estimating partworth functions from preference ratings data, and dedicates a chapter on methods of design and analysis of conjoint-based choice experiments, where choice is measured directly. Chapter 5 describes several methods for handling a large number of attributes. Chapters 6 through 8 discuss the use of conjoint analysis for specific applications like product and service design or product line decisions, product positioning and market segmentation decisions, and pricing decisions. Chapter 9 collates miscellaneous applications of marketing mix including marketing resource allocation or store location decisions. Finally, Chapter 10 reviews more recent developments in experimental design and data analysis and presents an assessment of future developments.

Handbook of Chemoinformatics Algorithms

From Parallel Processing to the Internet of Things

Cognitive Computing – ICC 2019

Education at a Glance

How AI Impacts Urban Living and Public Health

How to Read an EEG

OECD Indicators

This book provides a systematic and comprehensive overview of machine learning with cognitive science methods and techniques played an important role at the core of practical solutions for a wide scope of tasks between handheld apps, industrial production, autonomous vehicles, environmental policies, life sciences, playing computer games, computational theory, and engineering. Chapters in this book focus on readers interested in machine learning, cognitive and neuro-inspired computational systems, mechanisms, and architecture, which underline human and animal behaviour, and their application to conscious and intelligent systems. In the current version, it focuses on the successful implementation and step-by-step explanation of practical applications of the technology in a wide range of inspiring and interesting cutting-edge contributions to applications of machine learning and cognitive science in healthcare products, medical electronics, and gaming. Overall, this book provides valuable information on effective, cutting-edge methods and approaches for students, researchers, practitioners, and academicians working in the field of AI, neural network, machine learning, and cognitive science. Furthermore, the purpose of this book is to address the interests of a broad spectrum of practitioners, researchers, who are interested in applying machine learning and cognitive science methods in their respective domains. This book constitutes the proceedings of the 8th International Conference on Future Data and Security Engineering, FDSE 2021, held in Chi Minh City, Vietnam, in November 2021.* The 28 full papers and 8 short papers were carefully reviewed and selected from 160 submitted papers. The selected papers are organized into the following topical headings: big data analytics and distributed systems; security and privacy; industry 4.0 and smart city: data analytics and security; blockchain and access control; data analytics and healthcare systems. * The conference was held virtually due to the COVID-19 pandemic.

The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study. This book treats the arithmetic approach in its modern formulation, through the use of basic algebraic number theory and algebraic geometry. After a brief discussion of the necessary algebro-geometric results, the book proceeds with an exposition of the geometry and arithmetic of elliptic curves, elliptic curves over finite fields, the complex numbers, local fields, and global fields. Final chapters deal with rational points, including Siegel's theorem and explicit computations for the curve $Y^2 = X^3 + DX$, while three appendices concern Elliptic Curves in Characteristics 2 and 3, Group Cohomology, and an overview of more advanced topics.

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally control a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems. The software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering principles underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of embedded systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level.

professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine learning, computer programming, basic discrete mathematics and algorithms, and signals and systems.

Technological and Theoretical Advances

Proceedings of International Conference on Artificial Intelligence, Smart Grid and Smart City Applications

Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications

Brain-Computer Interfaces Handbook

Brain Source Localization Using EEG Signal Analysis

8th International Conference, FDSE 2021, Virtual Event, November 24-26, 2021, Proceedings

Chikungunya and Zika Viruses

Free energy constitutes the most important thermodynamic quantity to understand how chemical species recognize each other, associate or react. Examples of problems in which knowledge of the underlying free energy behaviour is required, include conformational equilibria and molecular association, partitioning between immiscible liquids, receptor-drug interaction, protein-protein and protein-DNA association, and protein stability. This volume sets out to present a coherent and comprehensive account of the concepts that underlie different approaches devised for the determination of free energies. The reader will gain the necessary insight into the theoretical and computational foundations of the subject and will be presented with relevant applications from molecular-level modelling and simulations of chemical and biological systems. Both formally accurate and approximate methods are covered using both classical and quantum mechanical descriptions. A central theme of the book is that the wide variety of free energy calculation techniques available today can be understood as different implementations of a few basic principles. The book is aimed at a broad readership of graduate students and researchers having a background in chemistry, physics, engineering and physical biology.

Brain-Computer Interfaces Handbook: Technological and Theoretical Advances provides a tutorial and an overview of the rich and multi-faceted world of Brain-Computer Interfaces (BCIs). The authors supply readers with a contemporary presentation of fundamentals, theories, and diverse applications of BCI, creating a valuable resource for anyone involved with the improvement of people's lives by replacing, restoring, improving, supplementing or enhancing natural output from the central nervous system. It is a useful guide for readers interested in understanding how neural bases for cognitive and sensory functions, such as seeing, hearing, and remembering, relate to real-world technologies. More precisely, this handbook details clinical, therapeutic and human-computer interfaces applications of BCI and various aspects of human cognition and behavior such as perception, affect, and action. It overviews the different methods and techniques used in acquiring and pre-processing brain signals, extracting features, and classifying users' mental states and intentions. Various theories, models, and empirical findings regarding the ways in which the human brain interfaces with external systems and environments using BCI are also explored. The handbook concludes by engaging ethical considerations, open questions, and challenges that continue to face brain-computer interface research. Features an in-depth look at the different methods and techniques used in acquiring and pre-processing brain signals, extracting features, and classifying the user's intention Covers various theories, models, and empirical findings regarding ways in which the human brain can interface with the systems or external environments Presents applications of BCI technology to understand various aspects of human cognition and behavior such as perception, affect, action, and more Includes clinical trials and individual case studies of the experimental therapeutic applications of BCI Provides human factors and human-computer interface concerns in the design, development, and evaluation of BCIs Overall, this handbook provides a synopsis of key technological and theoretical advances that are directly applicable to brain-computer interfacing technologies and can be readily understood and applied by individuals with no formal training in BCI research and development.

The EEG is a simple and widely available neurophysiological test that, if interpreted correctly, can provide valuable insight into the functioning of the brain. However, despite its increasing usage in a range of settings, there is a common misconception that the EEG is inherently difficult to interpret. Compounding the problem is the lack of dedicated training and no standardized approach by encephalographers. This book provides a clear and concise guide to reading and interpreting EEGs in a systematic way. Presented in three sections, the first delivers foundational technical knowledge of how EEGs work, and the second concentrates on a comprehensive, stepwise approach to reading and interpreting an EEG. The third section contains examples of EEGs in common scenarios, such as seizures and post-cardiac arrest, enabling readers to correlate their findings to clinical indications. Heavily illustrated with over 200 example EEGs, this is an essential pocket guide to interpreting these tests.

Due to the complexity, and heterogeneity of the smart grid and the high volume of information to be processed, artificial intelligence techniques and computational intelligence appear to be some of the enabling technologies for its future development and success. The theme of the book is "Making pathway for the grid of future" with the emphasis on trends in Smart Grid, renewable interconnection issues, planning-operation-control and reliability of grid, real time monitoring and protection, market, distributed generation and power distribution issues, power electronics applications, computer-IT and signal processing applications, power apparatus, power engineering education and industry-institute collaboration. The primary objective of the book is to review the current state of the art of the most relevant artificial intelligence techniques applied to the different issues that arise in the smart grid development.

An Introduction to Probability Theory and Its Applications

Introduction to Embedded Systems, Second Edition

17th International Conference, ICOST 2019, New York City, NY, USA, October 14-16, 2019, Proceedings

Methods and Applications

An Introduction

Adam Spencer's

This book constitutes the proceedings of the International Conference on Cognitive Computing, ICC3 2019, held as part of SCF 2019, in San Diego, CA, USA, in June 2019. The 14 full and 3 short papers presented in this volume were carefully reviewed and selected from 42 submissions. The papers cover all aspects of Sensing Intelligence (SI) as a Service (SaaS). Cognitive Computing is a sensing-driven computing (SDC) scheme that explores and integrates intelligence from all types of senses in various scenarios and solution contexts

The OECD education indicators enable countries to see themselves in light of other countries performance. They reflect on both the human and financial resources invested in education and on the returns of these investments.

This book constitutes the refereed proceedings of the Cryptographer's Track at the RSA Conference 2014, CT-RSA 2014, held in San Francisco, CA, USA, in February 2014. The 25 papers presented in this volume were carefully reviewed and selected from 66 submissions. They are organized in topical sections on non-integral asymmetric functions, public-key encryption, hardware implementations, side-channel attacks, symmetric encryption and cryptanalysis, digital signatures, protocols, hash function cryptanalysis, and applications of cryptographic primitives.

Develop a deeper understanding of mathematical concepts and their applications with new and updated editions from our bestselling series. - Build connections between topics using real-world contexts that develop mathematical modelling skills, thus providing your students with a fuller

and more coherent understanding of mathematical concepts. - Develop fluency in problem-solving, proof and modelling with plenty of questions and well-structured exercises. - Overcome misconceptions and develop mathematical insight with annotated worked examples. - Enhance understanding and map your progress with graduated exercises that support you at every stage of your learning.

Book of Numbers

Soft Computing for Problem Solving

DB2 Virtualization

A Cyber-Physical Systems Approach

Bioengineering and Biomedical Signal and Image Processing

AISGSC 2019

NEHRP Recommended Provisions (National Earthquake Hazards Reduction Program) for Seismic Regulations for New Buildings and Other Structures: Commentary

Server virtualization technologies are becoming more popular to help efficiently utilize resources by consolidating servers. IBM® , the first company that developed and made available the virtual technology in 1966, offers advanced, powerful, reliable, and cost-saving virtualization technologies in various hardware and software products including DB2® for Linux, UNIX, and Windows. This IBM Redbooks® publication describes using IBM DB2 9 with server virtualization. We start with a general overview of virtualization and describe specific server virtualization technologies to highlight how the server virtualization technologies have been implemented. With this introduction anyone new to virtualization will have a better understanding of server virtualization and the industry server virtualization technologies available in the market. Following the virtualization concept, we describe in detail the setup, configuration, and managing of DB2 with three leading server virtualization technologies: IBM Power Systems™ with PowerVM™ VMware Hyper-V We discuss the virtual machine setup with DB2 in mind to help IT support understand the effective ways of setting up a virtual environment specific for DB2. We explain the architecture and components of these three server virtualization technologies to allow DBAs to understand how a database environment using DB2 can benefit from using the server virtualization technologies. In addition, we discuss the DB2 features and functions that can take advantage of using server virtualization. These features are put into practice when describing how to set up DB2 with the three virtualization technologies discussed in this book. This book also includes a list of best practices from the various tests performed while using these virtualization technologies. These best practices can be used as a guideline or a reference when setting up DB2 using these virtualization technologies.

The first edition of this work has become the standard introduction to the theory of p -adic numbers at both the advanced undergraduate and beginning graduate level. This second edition includes a deeper treatment of p -adic functions in Ch. 4 to include the Iwasawa logarithm and the p -adic gamma-function, the rearrangement and addition of some exercises, the inclusion of an extensive appendix of answers and hints to the exercises, as well as numerous clarifications.

Port-Hamiltonian Systems Theory: An Introductory Overview provides a concise and easily accessible description of the foundations underpinning the subject and emphasizes novel developments in the field, which will be of interest to a broad range of researchers.

Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft,

Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

Informatics, Networking and Intelligent Computing

Predictive Toxicology

Theory and Applications in Chemistry and Biology

Cloud Computing

Learning Statistics with R

MEI Further Maths: Modelling with Algorithms

Operations Research

This book is a historical review of international food and agriculture since the founding of the international organizations following the Second World War, including the World Bank and the Food and Agriculture Organization of the United Nations (FAO), the World Food Programme (WFP) and into the 1970s, when CGIAR was established and the International Fund for Agricultural Development (IFAD) was created to recycle petrodollars. Despite numerous international consultations and an increased number of actors, there has been no real growth in international assistance, except for the work of the Bill and Melinda Gates Foundation. The book concurrently focuses on the structural transformation of developing countries in Asia and Africa, with some making great strides in small farmer development and in achieving structural transformation of their economies. Some have also achieved Sustainable Development Goals (SDGs), particularly SDG2, but most have not. Not only are some countries, particularly in South Asia and sub-Saharan Africa, lagging behind, but they face new challenges of climate change, competition from emerging countries, population pressure, urbanization, environmental decay, and dietary transition. Lagging developing countries need huge investments in human capital, and physical and institutional infrastructure, to take advantage of rapid change in technologies, but the role of international assistance in financial transfers has diminished. The COVID-19 pandemic has not only set many poorer countries back but starkly revealed the weaknesses of past strategies. Transformative changes are needed in developing countries with international cooperation to achieve better outcomes. Will change in the United States bring new opportunities for multilateral cooperation?"--

Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing

This IBM® Redbooks® publication discusses in detail the facilities of DB2® for z/OS®, which allow complete monitoring of a DB2 environment. It focuses on the use of the DB2 instrumentation facility component (IFC) to provide monitoring of DB2 data and events and includes suggestions for related tuning. We discuss the collection of statistics for the verification of performance of the various components of the DB2 system and accounting for tracking the behavior of the applications. We have intentionally omitted considerations for query optimization; they are worth a separate document. Use this book to activate the right traces to help you monitor the performance of your DB2 system and to tune the various aspects of subsystem and application performance. Changes in the neurological functions of the human brain are often a precursor to numerous degenerative diseases. Advanced EEG systems and other monitoring systems used in preventive diagnostic procedures incorporate innovative features for brain monitoring functions such as real-time automated signal processing techniques and sophisticated amplifiers. Highlighting the US, Europe, Australia, New Zealand, Japan, Korea, China, and many other areas, EEG/ERP Analysis: Methods and Applications examines how researchers from various disciplines have started to work in the field of brain science, and explains the different techniques used for processing EEG/ERP data. Engineers can learn more about the clinical applications, while clinicians and biomedical scientists can familiarize themselves with the technical aspects and theoretical approaches. This book explores the recent advances involved in EEG/ERP analysis for brain monitoring, details successful EEG and ERP applications, and presents the neurological aspects in a simplified way so that those with an engineering background can better design clinical instruments. It consists of 13 chapters and includes the advanced techniques used for signal enhancement, source localization, data fusion, classification, and quantitative EEG. In addition, some of the chapters are contributed by neurologists and neurosurgeons providing the clinical aspects of EEG/ERP analysis. Covers a wide range of EEG/ERP applications with state-of-the-art techniques for denoising, analysis, and classification Examines new applications related to 3D display devices Includes MATLAB® codes EEG/ERP Analysis: Methods and Applications is a resource for biomedical and neuroscience scientists who are working on neural signal processing and interpretation, and biomedical engineers who are working on EEG/ERP signal analysis methods and developing clinical instrumentation. It can also assist neurosurgeons, psychiatrists, and postgraduate students doing research in neural engineering, as well as electronic engineers in neural signal

processing and instrumentation.

Free Energy Calculations

OECD Indicators, 1997

The Arithmetic of Elliptic Curves

Proceedings of the 2014 International Conference on Informatics, Networking and Intelligent Computing (INIC 2014), 16-17 November 2014, Shenzhen, China

Theory and Practice

Third International Conference, Held as Part of the Services Conference Federation, SCF 2019, San Diego, CA, USA, June 25–30, 2019, Proceedings

EEG/ERP Analysis

Soils are affected by human activities, such as industrial, municipal and agriculture, that often result in soil degradation and loss. In order to prevent soil degradation and to rehabilitate the potentials of degraded soils, reliable soil data are the most important prerequisites for the design of appropriate land-use systems and soil management practices as well as for a better understanding of the environment. The availability of reliable information on soil morphology and other characteristics obtained through examination and description of the soil in the field is essential, and the use of a common language is of prime importance. These guidelines, based on the latest internationally accepted systems and classifications, provide a complete procedure for soil description and for collecting field data. To help beginners, some explanatory notes are included as well as keys based on simple test and observations.--Publisher's description.

A comprehensive overview of techniques and systems currently utilized in predictive toxicology, this reference presents an in-depth survey of strategies to characterize chemical structures and biological systems—covering prediction methods and algorithms, sources of high-quality toxicity data, the most important commercial and noncommercial predictive toxicology programs, and advanced technologies in computational chemistry and biology, statistics, and data mining.

Forecasting is required in many situations. Stocking an inventory may require forecasts of demand months in advance. Telecommunication routing requires traffic forecasts a few minutes ahead. Whatever the circumstances or time horizons involved, forecasting is an important aid in effective and efficient planning. This textbook provides a comprehensive introduction to forecasting methods and presents enough information about each method for readers to use them sensibly.

Food for All

First International Conference, BIOMESIP 2021, Meloneras, Gran Canaria, Spain, July 19-21, 2021, Proceedings

Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough

Subsystem and Transaction Monitoring and Tuning with DB2 11 for z/OS

p-adic Numbers, p-adic Analysis, and Zeta-Functions

Proceedings of SocProS 2020, Volume 2

Latest Trends in AI, Volume 2