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Natural Language Processing and Information Systems Springer Science & Business Media

Geocomputation is the use of software and computing power to solve complex spatial problems. It is gaining increasing importance in the era of the 'big data' revolution, of 'smart cities', of crowdsourced data, and of associated applications for viewing and managing data geographically - like Google Maps. This student focused book: Provides a selection of practical examples of geocomputational techniques and 'hot topics' written by world leading practitioners. Integrates supporting materials in each chapter, such as code and data, enabling readers to work through the examples themselves. Chapters provide highly applied and practical discussions of: Visualisation and exploratory spatial data analysis Space time modelling Spatial algorithms Spatial regression and statistics Enabling interactions through the

use of neogeography All chapters are uniform in design and each includes an introduction, case studies, conclusions - drawing together the generalities of the introduction and specific findings from the case study application – and guidance for further reading. This accessible text has been specifically designed for those readers who are new to Geocomputation as an area of research, showing how complex real-world problems can be solved through the integration of technology, data, and geocomputational methods. This is the applied primer for Geocomputation in the social sciences.

Becker-Shaffer's Diagnosis and Therapy of the Glaucomas Springer Science & Business Media
This book constitutes the proceedings of the 16th International Conference on Integration of Constraint Programming, Artificial Intelligence, and Operations Research, CPAIOR 2019, held in

Thessaloniki, Greece, in June 2019. The 34 full papers presented together with 9 short papers were carefully reviewed and selected from 94 submissions. The conference brings together interested researchers from Constraint Programming (CP), Artificial Intelligence (AI), and Operations Research (OR) to present new techniques or applications and to provide an opportunity for researchers in one area to learn about techniques in the others. A main objective of this conference series is also to give these researchers the opportunity to show how the integration of techniques from different fields can lead to interesting results on large and complex problems.

**Security Engineering and
Intelligence Informatics**

Springer

About the Book: Written by

three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

**A Manual of Marks on Pottery and
Porcelain** Springer Science & Business
Media

Over the past decade, advances in sensor technology, processing algorithms, and computational capacity have taken remote sensing to a level where observations can be transformed into quantitative measurements, and the technology can be used in near real-time for mapping,

monitoring and decision-making. For the third edition, this widely acclaimed book has been fully revised, enlarged and updated. It covers remote sensing in a wide range of optical, thermal, and microwave wavelengths and their host of geologic applications featuring sample applications from around the globe. In addition, it presents state-of-the-art content on emerging themes such as atmospheric interactions, spectroscopy, spectral indices, prospectivity modelling, and multi-sensor geodata integration. The subject matter is presented at a basic level, offering students an excellent introductory text on remote sensing. Further, the main part of the book will also be of great value to active researchers. Excerpt from the review of

Remote Sensing Geology (2nd ed., 2003): International Journal of Applied Earth Observation and Geoinformation, 5 (2004) 239–240 “...Graduate students, research workers and professional earth scientists will use this book to their advantage and with pleasure; it is well-written, to the point and with an emphasis on understanding the principles underlying this wide spectre of technology in its application to the earth sciences. Remote sensing is a fascinating subject; so is geology. The author has fully succeeded in providing a fascinating book that combines them in a handy volume.” Jan J. Nossin
Digital Signal Processing with Field Programmable Gate Arrays Springer
This book offers a detailed investigation of

breakdowns in traffic and transportation networks. It shows empirically that transitions from free flow to so-called synchronized flow, initiated by local disturbances at network bottlenecks, display a nucleation-type behavior: while small disturbances in free flow decay, larger ones grow further and lead to breakdowns at the bottlenecks. Further, it discusses in detail the significance of this nucleation effect for traffic and transportation theories, and the consequences this has for future automatic driving, traffic control, dynamic traffic assignment, and optimization in traffic and transportation networks. Starting from a large volume of field traffic data collected from various sources obtained solely through measurements in real world traffic, the author develops his insights, with an emphasis less on reviewing existing methodologies,

models and theories, and more on providing a detailed analysis of empirical traffic data and drawing consequences regarding the minimum requirements for any traffic and transportation theories to be valid. The book - proves the empirical nucleation nature of traffic breakdown in networks - discusses the origin of the failure of classical traffic and transportation theories - shows that the three-phase theory is incommensurable with the classical traffic theories, and - explains why current state-of-the-art dynamic traffic assignments tend to provoke heavy traffic congestion, making it a valuable reference resource for a wide audience of scientists and postgraduate students interested in the fundamental understanding of empirical traffic phenomena and related data-driven phenomenology, as well as for practitioners working in the fields of traffic and

transportation engineering.

Vertigo Rehabilitation Protocols Springer Science & Business Media

Authored by three prominent specialists in the field, this text provides comprehensive coverage of diagnostic and treatment modalities for optimal glaucoma management. Revised throughout, this new edition presents the latest guidance in clinical examination, randomized trials, medical treatment, laser therapy, and surgical procedures. Hundreds of illustrations-with many classic black and white figures from the previous editions supplemented with new color images-depict the features of glaucomas and step-by-step procedures for their management, while expanded use of highlighted boxes, lists, and summary tables make the material easy to access. Evidence-based and updated information on all aspects of the glaucomas-including physiology, genetics, interventional trials, and new surgical techniques-offer a well-rounded foundation of knowledge for making the most

informed diagnoses and choosing the most effective course of treatment. Combines the cumulative experience of three prominent glaucoma specialists-addressing a full range of clinical needs for practitioners of all levels-for a uniquely written coherent perspective. Includes extensive references to current and historically important sources to provide comprehensive interpretation of the latest medical literature. Synthesizes a classical approach to the glaucomas-based on seven earlier editions spanning over 40 years-with the most up-to-date evidence-based and epidemiologically-derived classifications and outcomes. Coherently correlates with authoritative consensus documents on key areas of glaucoma, drawn up by the world-wide specialists of the World Glaucoma Association, and reprinted in the text. Revamps traditional teachings on the angle closure glaucomas, in concert with the newest international literature and technologies, to keep you up to date on the latest advances. Illustrates detailed surgical interventions applicable to the

complete spectrum of clinical settings-from the developing world through contemporary operating rooms. Examines the newest and most promising developments in pharmacology, laser and surgical advances for glaucoma management, to enable you to choose the most effective patient approach. Illustrates invaluable but little-known instruments for clinical and research diagnoses, including optic nerve cupping scales, bleb assessment instruments, and more.

PASCAL User Manual and Report Elsevier Health Sciences

Top executives in international marketing and marketing professors give hands-on theoretical insights and practical guidelines for the most relevant problems in international marketing. The book is structured by easily accessible marketing catchwords and contains one in-depth, compact article per catchword.

Enterprise Level Security Springer Science & Business Media

Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context is based on the work from the Saph Pani project (Hindi word meaning potable water). The book aims to study and improve natural water treatment systems, such as River Bank Filtration (RBF), Managed Aquifer Recharge (MAR), and wetlands in India, building local and European expertise in this field. The project aims to enhance water resources and water supply, particularly in water stressed urban and peri urban areas in different parts of the Indian sub-continent. This project is co-funded by the European Union under the Seventh Framework (FP7) scheme of small or medium scale focused research projects for specific cooperation actions (SICA) dedicated to international cooperation partner countries. Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context provides: an introduction to the concepts of natural water treatment systems (MAR, RBF, wetlands) at

national and international level knowledge of the basics of MAR, RBF and wetlands, methods and hydrogeological characterisation an insight into case studies in India and abroad. This book is a useful resource for teaching at Post Graduate level, for research and professional reference.

Computer Algebra Handbook New Age International

Authored by three prominent specialists in the field, this text provides comprehensive coverage of diagnostic and treatment modalities for optimal glaucoma management. Revised throughout, this new edition presents the latest guidance in clinical examination, randomized trials, medical treatment, laser therapy, and surgical procedures. Hundreds of illustrations—with many classic black and white figures from the previous editions

supplemented with new color images—depict the features of glaucomas and step-by-step procedures for their management, while expanded use of highlighted boxes, lists, and summary tables make the material easy to access. Evidence-based and updated information on all aspects of the glaucomas—including physiology, genetics, interventional trials, and new surgical techniques—offer a well-rounded foundation of knowledge for making the most informed diagnoses and choosing the most effective course of treatment. Combines the cumulative experience of three prominent glaucoma specialists—addressing a full range of clinical needs for practitioners of all levels—for a uniquely written coherent perspective.

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Advanced Computational Intelligence Paradigms in Healthcare 6 Springer

Psychosomatic diagnostics and therapy are of increasing importance in the acute treatment, prevention and rehabilitation of cardiovascular

diseases. The connection between heart disease and the psyche as well as the psychosocial concomitant symptoms is well documented. Contents: • Basics of cardiology and psychosomatic medicine; • Doctor-patient relationship; • Ethical issues, gender effects, psychocardiology along the lifespan; • Psychosomatic problem areas and comorbidities in coronary heart disease: Personality factors, risk behaviours, depression, anxiety disorders; • Specific problems in other cardiovascular diseases and treatment settings; • Diagnostics; • Interdisciplinary cooperation, treatment and rehabilitation; • Training courses in psychocardiology. The book offers cardiologists, internists, general practitioners, psychotherapists and psychologists all practice-relevant basics to be able to treat their patients in the best possible way. It is a translation of an

original German edition. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book may read stylistically differently from a conventional translation.

Breakdown in Traffic Networks Springer Science & Business Media

This book constitutes the refereed proceedings of the 10th IFIP WG 5.11 International Symposium on Environmental Software Systems, ISESS 2013, held in Neusiedl am See, Austria, in June 2013. The 65 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections:

environmental application in the scope of the approach to security. The new approach is future Internet; smart and mobile devices more distributed and has no need for used for environmental applications; passwords or accounts. Global attacks information tools for global environmental become much more difficult, and losses are assessment; environmental applications in localized, should they occur. The security risk and crises management; SEIS as a part approach is derived from of the 7th environment action programme of Machine Drawing Springer EU; human interaction and human factors The author presents examples of coal driving future EIS/EDSS developments; deposits two different continents: from the environmental management/-accounting European Carboniferous and the Permian and -statistics; and information systems and Gondwana sequence of Australia. The applications. organic and petrographic composition of the coal content of palaeo-environmentally Hemispherical Photography in Forest Science: Theory, Methods, Applications well defined groups of sediments allow the SAGE discrimination of two coal facies indices as Enterprise Level Security: Securing suitable indicators for distinct settings. Information Systems in an Uncertain World Combining the analytical methods of coal provides a modern alternative to the fortress petrography, sedimentology and sequence

stratigraphy an integrated view of coal formation is attained.

Human Interface and the Management of Information. Information and Interaction
CRC Press

Non-suicidal self-injury and eating disorders represent significant problems among today ' s youth and pose unique challenges for clinicians, particularly when they co-occur. This book is a rare resource in that it provides cutting-edge information on the interactions between self-injury and disordered eating, empirically informed treatments for the co-occurrence of these behaviors, and specific topics relevant to understanding nuances in the risk factors, treatment, and prevention of both self-injury and eating disorders. Practitioners,

graduate students, and researchers working within this specialized area will find this text to be instrumental in advancing their knowledge and improving the treatment of self-injury in those with eating disorders.

Geocomputation CRC Press

A preliminary version o~ the programming language Pascal was dra~ted in 1968. It ~ollowed in its spirit the A1gol-6m and Algo1-W 1ine o~ 1anguages. A~ter an extensive deve10pment phase, a~irst compiler became operational in 197m, and pub1ication ~ollowed a year 1ater (see Re~erences 1 and 8, p.1m4). The growing interest in the deve10pment of compilers ~or other computers ca11ed ~or a conso1idation o~ Pascal, and two years of experience in the use o~ the 1anguage

dictated a few revisions. This led in 1973 to the publication of a Revised Report and a definition of a language representation in terms of the ISO character set. This booklet consists of two parts: The User Manual, and the Revised Report. The Manual is directed to those who have previously acquired some familiarity with computer programming, and who wish to get acquainted with the language Pascal. Hence, the style of the Manual is that of a tutorial, and many examples are included to demonstrate the various features of Pascal. Summarising tables and syntax specifications are added as Appendices. The Report is included in this booklet to serve as a concise, ultimate reference for both programmers and implementors. It

defines standard Pascal which constitutes a common base between various implementations of the language. Theory and Applications of Models of Computation Westminster John Knox Press This volume presents the latest research in Virtual Reality (VR), as it is being applied in psychotherapy, rehabilitation, and the analysis of behaviour for neurological assessment. This book will be of value to anyone already in the field and to those who are interested in the development of VR systems for therapeutic purposes. The contents include:

- The latest literature reviews on VR in psychotherapy, psychological wellbeing, and rehabilitation
- VR and cognitive behavior therapy
- Increasing presence in VR for effective exposure therapy and treatment of anxiety disorders
- VR military training for managing

combat stress and preventing post traumatic stress · VR, mixed reality systems, and games for stroke rehabilitation · VR systems for improving vision in children with amblyopia · Therapeutic play in virtual environments · Healing potential of online virtual worlds such as Second Life · Neuropsychological assessment using virtual environments · Detailed accounts on how VR systems are designed, implemented, and best evaluated · Discussions of limitations, problems, and ethical concerns using VR in mental and physical therapy

The Algorithm Design Manual Springer

In recent years, the field of Universal Access has made significant progress in consolidating theoretical approaches, scientific methods and technologies, as well as in exploring new application domains. Increasingly, professionals

in this rapidly maturing area require a comprehensive and multidisciplinary resource that addresses current principles, methods, and tools. Written by leading international authorities from academic, research, and industrial organizations and nonmarket institutions, The Universal Access Handbook covers the unfolding scientific, methodological, technological, and policy issues involved in the process of achieving universal access in the information society. In a collection of 61 chapters, the book discusses how to systematically apply universal design principles to information technologies. It explains the various dimensions of diversity in the technological platforms and contexts of use, including trends in mobile interaction and ambient intelligence environments. The implications of Universal Access on the

development life cycle of interactive applications and services are unfolded, addressing user interface architectures and related components. Novel interaction methods and techniques for Universal Access are analyzed, and a variety of applications in diverse domains are discussed. The book reflects recent developments, consolidates present knowledge, and points towards new perspectives for the future. A quick glance through the contents demonstrates not only the breadth and depth of coverage but also the caliber of the contributions. An indispensable source of information for interdisciplinary and cross-thematic study, the book provides a baseline for further in-depth studies, as well as an important educational tool in an increasingly globalized research and development environment.

Coal-Bearing Depositional Systems Springer

The theme of the 2nd International KES Symposium on Intelligent Interactive Multimedia Systems and Services was integration of multimedia processing techniques in a new wave of user-centric services and processes. This text offers the symposium's proceedings.

The Sava River Elsevier Health Sciences A revitalized version of the popular classic, the Encyclopedia of Library and Information Science, Second Edition targets new and dynamic movements in the distribution, acquisition, and development of print and online media-compiling articles from more than 450 information specialists on topics including program planning in the digital era, recruitment, information management, advances in digital technology and encoding, intellectual property, and hardware, software, database selection and design, competitive intelligence, electronic records preservation,

decision support systems, ethical issues in information, online library instruction, telecommuting, and digital library projects. Manual of International Marketing. IWA Publishing

This volume provides a comprehensive overview of environmental aspects of the Sava River, which is the greatest tributary to the Danube River and the major drainage river system of South Eastern Europe. Hydroelectric power plants, river traffic, intensive agricultural activities, heavy industry and floods have considerable influence on the environment and biota in the basin. Summarizing the results that were gathered in the course of EU, bilateral and national projects, the book highlights the most important stressors and helps readers to better understand the impact of anthropogenic activities on the function of river basins. Topics

include: transboundary water cooperation between the riparian countries; climate change projection, including its impact on flood hazards; evaluation of anthropogenic pollution sources; pollution of sediments, metal bioavailability and ecotoxicological and microbiological characterization of the river. The biological part also addresses quality aspects related to wildlife in river aquatic ecosystems (algae, macrophytes, zooplankton, macroinvertebrates and fish) and riparian ecosystems (amphibians, reptiles, birds and mammals). The general state of biodiversity and pressures caused by invasive aquatic species are also discussed.