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 Repeated Measures Design with Generalized Linear Mixed Models for Randomized Controlled Trials Computational Methods for Protein Folding, Volume 120 DB2 10 for z/OS Technical Overview DB2 10 for z/OS Performance Topics Acoustic Remote Sensing Applications Orange Coast Magazine FEDLINK Services Directory for Fiscal Year ... State Road and Ebner Coulees Flood Control Project, LaCrosse End to End Performance Management on IBM i Basic Photographic Materials and Processes Salesforce Service Cloud For Dummies Lung Ultrasound in the Critically Ill Ultrasound in Critical Care Digital Signal Processing for Multimedia Systems Securities Regulation in Cyberspace, Third Edition Compressed Video Over Networks Adobe Photoshop 2020 for Photographers An Atlas of State Profiles which Estimate Number of Migrant and Seasonal Farmworkers and Members of Their Families HEC-2 Water Surface Profiles An Atlas of State Profiles which Estimate Number of Migrant and Seasonal Farmworkers and Members of Their Families Group Policy The Digital Satellite TV Handbook Criminal Procedure Mathematics of Multidimensional Seismic Imaging, Migration, and Inversion Knowledge Engineering and Knowledge Management American River Watershed, California American River Watershed Common Features Project/Natomas Post-authorization Change Report/Natomas Levee Improvement Program, Phase 4b Landside Improvements Project Chemical Change in Deforming Materials Video Coding for Wireless Communication Systems Pro Drupal Development Computerworld Knockout Cv: How To Get Noticed, Get Interviewed & Get Hired Exploiting structure in computationally hard voting problems Automatic Diatom Identification Urban Energy Systems Advances in Databases and Information Systems Cooling Flows in Clusters and Galaxies Proceedings AIC 2003 Bangkok The Rust Programming Language (Covers Rust 2018)

2023-09-08

Repeated Measures Design with Generalized Linear Mixed Models for Randomized Controlled Trials *2017-09-14*

repeated measures design with generalized linear mixed models for randomized controlled trials is the first book focused on the application of generalized linear mixed models and its related models in the statistical design and analysis of repeated measures from randomized controlled trials the author introduces a new repeated measures design called s t design combined with mixed models as a practical and useful framework of parallel group rct design because of easy handling of missing data and sample size reduction the book emphasizes practical rather than theoretical aspects of statistical analyses and the interpretation of results it includes chapters in which the author describes some old fashioned analysis designs that have been in the literature and compares the results with those obtained from the corresponding mixed models the book will be of interest to biostatisticians researchers and graduate students in the medical and health sciences who are involved in clinical trials author website data sets and programs used in the book are available at medstat jp downloadrepeatedcrc html

Computational Methods for Protein Folding, Volume 120 *2004-04-07*

since the first attempts to model proteins on a computer began almost thirty years ago our understanding of protein structure and dynamics has dramatically increased spectroscopic measurement techniques continue to improve in resolution and sensitivity allowing a wealth of information to be obtained with regard to the kinetics of protein folding and unfolding and complementing the detailed structural picture of the folded state concurrently algorithms software and computational hardware have progressed to the point where both structural and kinetic problems may be studied with a fair degree of realism despite these advances many major challenges remain in understanding protein folding at both the conceptual and practical levels computational methods for protein folding seeks to illuminate recent advances in computational modeling of protein folding in a way that will be useful to physicists chemists and chemical physicists covering a broad spectrum of computational methods and practices culled from a variety of research fields the editors present a full range of models that together provide a thorough and current description of all aspects of protein folding a valuable resource for both students and professionals in the field the book will be of value both as a cutting edge overview of existing information and as a catalyst for inspiring new studies computational methods for protein folding is the 120th volume in the acclaimed series advances in chemical physics a compilation of scholarly works dedicated to the dissemination of contemporary advances in chemical physics edited by nobel prize winner ilya prigogine

DB2 10 for z/OS Technical Overview *2014-07-16*

ibm db2 version 10 1 for z os db2 10 for z os or just db2 10 throughout this book is the fourteenth release of db2 for mvstm it brings improved performance and synergy with the system z hardware and more opportunities to drive business value in the following areas cost savings and compliance through optimized innovations db2 10 delivers value in this area by achieving up to 10 cpu savings for traditional

workloads and up to 20 cpu savings for nontraditional workloads depending on the environments synergy with other ibm system z platform components reduces cpu use by taking advantage of the latest processor improvements and z os enhancements streamline security and regulatory compliance through the separation of roles between security and data administrators column level security access and added auditing capabilities business insight innovations productivity improvements are provided by new functions available for purexml data warehousing and traditional online tp applications enhanced support for key business partners that allow you to get more from your data in critical business disciplines like erp bitemporal support for applications that need to correlate the validity of data with time business resiliency innovations database on demand capabilities to ensure that information design can be changed dynamically often without database outages db2 operations and utility improvements enhancing performance usability and availability by exploiting disk storage technology the db2 10 environment is available either for brand new installations of db2 or for migrations from db2 9 for z os or from db2 udb for z os version 8 subsystems this ibm redbooks publication introduces the enhancements made available with db2 10 for z os the contents help you understand the new functions and performance enhancements start planning for exploiting the key new capabilities and justify the investment in installing or migrating or skip migrating to db2 10

DB2 10 for z/OS Performance Topics 2013-08-23

db2 10 for z os can reduce the total db2 cpu demand from 5 20 compared to db2 9 when you take advantage of all the enhancements many cpu reductions are built in directly to db2 requiring no application changes some enhancements are implemented through normal db2 activities through rebinding restructuring database definitions improving applications and utility processing the cpu demand reduction features have the potential to provide significant total cost of ownership savings based on the application mix and transaction types improvements in optimization reduce costs by processing sql automatically with more efficient data access paths improvements through a range list index scan access method list prefetch for in list more parallelism for select and index insert processing better work file usage better record identifier rid pool overflow management improved sequential detection faster log i o access path certainty evaluation for static sql and improved distributed data facility ddf transaction flow all provide more efficiency without changes to applications these enhancements can reduce total cpu enterprise costs because of improved efficiency in the db2 10 for z os db2 10 includes numerous performance enhancements for large objects lobs that save disk space for small lobs and that provide dramatically better performance for lob retrieval inserts load and import export using db2 utilities db210 can also more effectively reorg partitions that contain lobs this ibm redbooks publication provides an overview of the performance impact of db2 10 for z os discussing the overall performance and possible impacts when moving from version to version we include performance measurements that were made in the laboratory and provide some estimates keep in mind that your results are likely to vary as the conditions and work will differ in this book we assume that you are somewhat familiar with db2 10 for z os see db2 10 for z os technical overview sg24 7892 00 for an introduction to the new functions

Acoustic Remote Sensing Applications *2005-10-21*

this book which is divided into three parts gives a state of the art report on technical developments in instrumentation and on theoretical advancements in acoustic remote sensing it explains the utilization of acoustic techniques in studies related to the structure of the lower atmosphere and oceans and discusses various atmospheric and oceanic applications the potential and limitations of acoustic remote sensing are also described this book will be useful to researchers graduate students and teachers interested in the structure of the atmosphere and oceans

Orange Coast Magazine *1987-03*

orange coast magazine is the oldest continuously published lifestyle magazine in the region bringing together orange county¹s most affluent coastal communities through smart fun and timely editorial content as well as compelling photographs and design each issue features an award winning blend of celebrity and newsmaker profiles service journalism and authoritative articles on dining fashion home design and travel as orange county¹s only paid subscription lifestyle magazine with circulation figures guaranteed by the audit bureau of circulation orange coast is the definitive guidebook into the county¹s luxe lifestyle

FEDLINK Services Directory for Fiscal Year ... *1993*

monitoring and managing your system s performance is critical to ensure that you are keeping pace with the changing demands of your business to respond to business changes effectively your system must change too managing your system at first glance might seem like just another time consuming job but the investment soon pays off because the system runs more efficiently and this is reflected in your business it is efficient because changes are planned and managed managing performance of any system can be a complex task that requires a thorough understanding of that system s hardware and software ibm i is an industry leader in the area of performance management and has many qualities that are not found in other systems such as unparalleled performance metrics always on collection of metrics graphical investigation of performance data while understanding all the different processes that affect system performance can be challenging and resolving performance problems requires the effective use of a large suite of tools the functions offered by ibm i are intended to make this job easier for users this ibm redbooks publication explains the tasks and rich tools associated with performance management on ibm i

State Road and Ebner Coulees Flood Control Project, LaCrosse *1982*

basic photographic materials and processes describes the three crucial stages of creating the perfect photograph capture processing and output by providing a thorough technical investigation of modern applied photographic technologies this new edition has been fully revised and updated to explore digital image capture processing and output it covers a wide range of topics including the scientific principles of measuring and recording light the inner workings of digital cameras image processing concepts color management and photographic output to screen and print media with these topics come in depth discussions of extending dynamic range image histograms camera characterization display capabilities printer and paper technologies it also includes applied exercises that provide the reader with a deeper understanding of the material through hands on experiments and demonstrations connecting theoretical concepts to real world use this comprehensive text provides photography students educators and working professionals with the technical knowledge required to successfully create images and manage digital photographic assets it is an essential resource for mastering the technical craft of photography

End to End Performance Management on IBM i *2009-11-23*

learn how to provide top grade customer service anywhere anytime with salesforce service cloud salesforce service cloud empowers your service organization tointeract with customers through any channel and provide anindividualized experience that will be worth sharing for yourcustomers and for your company salesforce service cloud fordummies is one the first books to focus specifically onsalesforce service cloud software with it you ll discover how toset up a sophisticated support center for your business in a matterof a few hours whether you re a service executive manager support agent or system administrator you will discover how tomaximize usage of service cloud through best practices andstep by step guidelines this book will help your customer servicedepartments gain a holistic view of the customers they serve andprovide your customers with meaningful efficient interactions examines how to enable your agents to provide efficientservice discusses

how to interact with customers through anychannel offers insights on improving internal communication andcollaboration shows how to resolve customer s questions in a timelymanner take advantage of this opportunity to be heard above yourcompetition with the help of salesforce service cloud fordummies

Basic Photographic Materials and Processes 2019-09-23

written by a pioneer in critical care ultrasound this book discusses the basic technique and signatures of lung ultrasound and explains its main clinical applications the tools and clinical uses of the blue protocol which allows diagnosis of most cases of acute respiratory failure are first described in detail careful attention is then devoted to protocols derived from the blue protocol the falls protocol for diagnosis and management of acute circulatory failure the pink protocol for use in ards and the sesame protocol for use in cardiac arrest and to the luci flr program a means of answering clinical questions while reducing radiation exposure finally the book discusses all the possible settings in which lung ultrasound can be used discipline by discipline and condition by condition lung ultrasound in the critically ill comprehensively explains how ultrasound can become the stethoscope of modern medicine it is a superb complement to the author s previous book whole body ultrasonography in the critically ill

Salesforce Service Cloud For Dummies *2015-04-15*

this book is a complete guide to the use of ultrasound in critical care beginning with an overview of ultrasound and its applications the next chapters discuss basic physics of ultrasound modes of ultrasonography and doppler imaging the following sections cover the use of ultrasound in different critical care situations including for vascular access in acute respiratory distress syndrome for cardiac evaluation in neurocritical care in the icu and more the book concludes with clinical case scenarios and guidance on infection control and legal issues in icu sonography the comprehensive text is further enhanced by more than 300 ultrasound images figures and tables to assist learning key points comprehensive guide to the use of ultrasound in critical care includes discussion on basic physics and modes of ultrasound provides clinical case scenarios and guidance on infection control features more than 300 ultrasound images figures and tables

<u>Lung Ultrasound in the Critically Ill</u> *2015-09-29*

addresses a wide selection of multimedia applications programmable and custom architectures for the implementations of multimedia systems and arithmetic architectures and design methodologies the book covers recent applications of digital signal processing algorithms in multimedia presents high speed and low priority binary and finite field arithmetic architectures details vhdl based implementation approaches and more

Ultrasound in Critical Care *2018-09-30*

this volume details the essential elements for designing optimal end to end systems it progresses from the fundamentals of both video compression and networking technologies to an extensive summary of the constant and continuous interaction between the fields the work seeks to respond to the proliferation of networked digital video applications in daily life with in depth analyses of technical problems and solutions

Digital Signal Processing for Multimedia Systems *1999-03-11*

adobe photoshop 2020 for photographers by acclaimed digital imaging professional martin evening has been revamped to include detailed instruction for all of the updates to photoshop on adobe s creative cloud including significant new features such as cloud document saving the new content area fill and the texture slider and depth range mask for camera raw this guide covers all the tools and techniques photographers and professional image editors need to know when using photoshop from workflow guidance to core skills to advanced techniques for professional results using clear succinct instruction and real world examples this guide is the essential reference for photoshop users the accompanying website has been updated with new sample images tutorial videos and bonus chapters

Securities Regulation in Cyberspace, Third Edition *2018-10-08*

get up to speed on the latest group policy tools features and best practices group policy fundamentals security and the managed desktop 3rd edition helps you streamline windows and windows server management using the latest group policy tools and techniques this updated edition covers windows 10 and windows server vnext bringing you up to speed on all the newest settings features and best practices microsoft group policy mvp jeremy moskowitz teaches you the major categories of group policy essential troubleshooting techniques and how to manage your windows desktops this is your complete guide to the latest group policy features and functions for all modern windows clients and servers helping you manage more efficiently and effectively perform true desktop and server management with the group policy preferences admx files and additional add ons use every feature of the gpmc and become a top notch administrator troubleshoot group policy using tools enhanced logs resource kit utilities and third party tools manage printers drive maps restrict hardware and configure internet explorer deploy software to your desktops set up roaming profiles and configure offline files for all your windows clients and manage it all with group policy settings secure your desktops and servers with applocker windows firewall with advanced security and the security configuration manager this is your comprehensive resource to staying current with expert tips techniques and insight

Compressed Video Over Networks *2020-12-30*

cd rom contains a version of the book with hyperlinks

Adobe Photoshop 2020 for Photographers 1990

this contemporary comprehensive case driven textbook from award winning professor matthew lippman combines clear explanations of foundational concepts with thought provoking examples to encourage students to think critically about legal principles and apply the rules of law to criminal procedure organized around the challenge of striking a balance between rights and liberties criminal procedure fourth edition emphasizes diversity and its impact on how laws are enforced built in learning aids including you decide scenarios legal equations and criminal procedure in the news features engage students and help them master key concepts new to this edition new u s supreme court cases help students understand the significant impact the recent decisions have on society such as united states v carpenter which raised important questions around police use of new technology other new cases address important issues including privacy racial discrimination and effective assistance of counsel search and seizure juries plea bargaining the exclusionary rule pretrial motions and habeas corpus updated criminal procedure in the news and you decide features keep students engaged in the content by connecting core concepts to contemporary developments in topics ranging from police use of deadly force the second amendment and gun control racial bias in jury deliberations searches of electronic devices and much more new and expanded topics in criminal procedure encourage students to reflect on their growing impact these topics include technology and the home patterns and trends of terry stops in major cities across the united

states racial bias in the judiciary and the impact of the policies of the trump administration on the use of drones the detention of undocumented immigrants and more each chapter now opens with a new test your knowledge feature that encourages active reading and prepares students for the material that follows give your students the sage edge sage edge offers a robust online environment featuring an impressive array of free tools and resources for review study and further exploration keeping both instructors and students on the cutting edge of teaching and learning

An Atlas of State Profiles which Estimate Number of Migrant and Seasonal Farmworkers and Members of Their Families *1976*

for more than 80 years the oil and gas industry has used seismic methods to construct images and determine physical characteristics of rocks that can yield information about oil and gas bearing structures in the earth this book presents the different seismic data processing methods also known as seismic migration in a unified mathematical way the book serves as a bridge between the applied math and geophysics communities by presenting geophysicists with a practical introduction to advanced engineering mathematics while presenting mathematicians with a window into the world of the mathematically sophisticated geophysicist

HEC-2 Water Surface Profiles 1990

this book constitutes the refereed proceedings of the 20th internationalconference on knowledge engineering and knowledge management ekaw 2016 held in bologna italy in november 2016 the 51 full papers presented were carefully reviewed and selected from 171 submissions the papers cover all aspects of eliciting acquiring modeling and managing knowledge the construction of knowledge intensive systems and services for the semantic knowledge management e business natural language processing intelligent information integration personal digital assistance systems and a variety of other related topics a special focus was on evolving knowledge i e the impact of space and time on knowledge representation concerning all aspects of the management and acquisition of knowledge representation of evolving contextual and local models

An Atlas of State Profiles which Estimate Number of Migrant and Seasonal Farmworkers and Members of Their Families *2015-08-31*

this book is the first to detail the chemical changes that occur in deforming materials subjected to unequal compressions while thermodynamics provides at the macroscopic level an excellent means of understanding and predicting the behavior of materials in equilibrium and non equilibrium states much less is understood about nonhydrostatic stress and interdiffusion at the chemical level little is known for example about the chemistry of a state resulting from a cylinder of deforming material being more strongly compressed along its length than radially a state of non equilibrium that remains no matter how ideal the cylinder s condition in other respects m brian bayly here provides the outline of a comprehensive approach to gaining a simplified and unified understanding of such phenomena the author s perspective differs from those commonly found in the technical literature in that he emphasizes two little used equations that allow for a description and clarification of viscous deformation at the chemical level written at a level that will be accessible to many non specialists this book requires only a fundamental understanding of elementary mathematics the nonhydrostatic stress state and chemical potential geochemists petrologists structural geologists and materials scientists will find chemical change in deforming materials interesting and useful

Group Policy 1999

explains the transmission of image and video information over wireless channels describes mpeg 4 the latest video coding standard discusses error resilient combined source channel image and video coders and multiple access spread spectrum and future generation wireless video communication systems

The Digital Satellite TV Handbook *2019-01-08*

widely praised for its in depth coverage of drupal internals bestselling pro drupal development has been updated for drupal 6 in this edition and provides are even more tricks of the trade to help you further yourself as a professional drupal developer assuming you already know how to install and bring a standard installation online john k vandyk gives you everything else you need to customize your drupal installation however you see fit pro drupal development second edition delves deep into drupal internals showing you how to take full advantage of its powerful architecture

Criminal Procedure *2013-11-22*

for more than 40 years computerworld has been the leading source of technology news and information for it influencers worldwide computerworld s award winning site computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global it media network

Mathematics of Multidimensional Seismic Imaging, Migration, and Inversion *2016-11-12*

john lees shows you how to write cvs and cover letters that convey your strengths quickly and get you into the interview process

Knowledge Engineering and Knowledge Management *2013*

this thesis explores and exploits structure inherent in voting problems some of these structures are found in the preferences of the voters such as the domain restrictions which have been widely studied in social choice theory ass02 ass10 others can be expressed as quantifiable measures or parameters of the input which make them accessible to a parameterized complexity analysis cyg 15 df13 fg06 nie06 accordingly the thesis deals with two major topics the first topic revolves around preference structures e g single crossing or one dimensional euclidean structures it is covered in chapters 3 to 5 the second topic includes the parameterized complexity analysis of two computationally hard voting problems making use of some of the structural properties studied in the first part of the thesis it also investigates questions on the computational complexity both classical and parameterized of several voting problems for two widely used parliamentary voting rules it is covered in chapters 6 to 8 in chapter 3 we study the single crossing property which describes a natural order of the voters such that for each pair of alternatives there are at most two consecutive voters along this order which differ in their relative ordering of the two alternatives we find finitely many forbidden subprofiles whose absence from a profile is necessary and sufficient for the existence of single crossingness using this result we can detect single crossingness without probing every possible order of the voters we also present an algorithm for the detection of single crossingness in o nm2 time via pq trees bl76 where n denotes the number of voters and m the number of alternatives in chapter 4 we study the one dimensional euclidean property which describes an embedding of the alternatives and voters into the real numbers such that every voter prefers alternatives that are embedded closer to him to those which are embedded farther away we show that contrary to our results for the single crossing property finitely many forbidden

subprofiles are not sufficient to characterize the one dimensional euclidean property in chapter 5 we study the computational question of achieving a certain property as for instance single crossingness by deleting the fewest number of either alternatives or voters we show that while achieving single crossingness by deleting the fewest number of voters can be done in polynomial time it is np hard to achieve this if we delete alternatives instead both problem variants are np hard for the remaining popular properties such as single crossingness or value restriction all these problems are trivially fixed parameter tractable for the parameter number of alternatives to delete resp number of voters to delete because for each studied property there are finitely many forbidden subprofiles whose removal makes a profile possess this property in chapter 6 we introduce a combinatorial variant of control by adding voters in control by adding voters as introduced by bartholdi iii tovey and trick btt92 there is a set of unregistered voters with known preference orders and the goal is to add the fewest number of unregistered voters to a given profile such that a specific alternative wins in our new model we additionally assume that adding a voter means also adding a bundle that is a subset of other voters for free we focus on two prominent voting rules the plurality rule and the condorcet rule our problem turns out to be extremely hard it is np hard for even two alternatives we identify different parameters arising from the combinatorial model and obtain an almost complete picture of the parameterized complexity landscape for the case where the bundles of voters have a certain structure our problem remains hard for single peaked preferences while it is polynomial time solvable for single crossing preferences in chapter 7 we investigate how different natural parameters and price function families influence the computational complexity of shift bribery efs09 which asks whether it is possible to make a specific alternative win by shifting it higher in the preference orders of some voters each shift has a price and the goal is not to exceed the budget we obtain both fixed parameter tractability and parameterized intractability results we also study the optimization variant of shift bribery which seeks to minimize the budget spent and present an approximation algorithm which approximates the budget within a factor of 1 epsilon and has a running time whose super polynomial part depends only on the approximation parameter epsilon and the parameter number of voters in chapter 8 we turn our focus to two prominent parliamentary voting rules the successive rule and the amendment rule both rules proceed according to a linear order of the alternatives called the agenda we investigate manipulation which asks to add the fewest number of voters with arbitrary preference orders to make a specific alternative win agenda control which asks to design an appropriate agenda for a specific alternative to win and possible necessary winner which asks whether a specific alternative wins in a every completion of the profile and the agenda we show that while manipulation and agenda control are polynomial time solvable for both rules our real world experimental results indicate that most profiles cannot be manipulated by only few voters and that a successful agenda control is typically impossible possible winner is np hard for both rules while necessary winner is conp hard for the amendment rule it is polynomial time solvable for the successive rule all considered computationally hard voting problems are fixed parameter tractable for the parameter number of alternatives die vorliegende arbeit beschäftigt sich mit wahlproblemen und den darin auftretenden strukturen einige dieser strukturen finden sich in den wählerpräferenzen wie zum beispiel die in der sozialwahltheorie engl social choice theory intensiv erforschten domain restrictions ass02 ass10 wo die wählerpräferenzen eine bestimmte eingeschränkte struktur haben andere strukturen lassen sich wiederum mittels problemparametern quantitativ ausdrücken was sie einer parametrisierten komplexitätsanalyse zugänglich macht cyg 15 df13 fg06 nie06 dieser zweiteilung folgend ist die arbeit in zwei themengebiete untergliedert das erste gebiet beinhaltet betrachtungen zu strukturen in wählerpräferenzen wie z b single crossing strukturen oder eindimensionale euklidische strukturen es wird in den kapiteln 3 bis 5 abgehandelt das zweite themengebiet umfasst die parametrisierte komplexitätsanalyse zweier np schwerer wahlprobleme wobei die neu gewonnenen erkenntnisse zu den im ersten teil der arbeit untersuchten strukturen verwendet werden es beschäftigt sich außerdem mit fragen sowohl zur klassischen als auch zur parametrisierten komplexität mehrerer wahlprobleme für zwei in der praxis weit verbreitete parlamentarische wahlverfahren dieser teil der arbeit erstreckt sich über die kapitel 6 bis 8 kapitel 3 untersucht die single crossing eigenschaft diese beschreibt eine anordnung der wähler bei der es für jedes paar von alternativen höchstens zwei aufeinanderfolgende wähler gibt die unterschiedlicher meinung über die reihenfolge dieser beiden alternativen sind wie sich herausstellt lässt sich diese eigenschaft durch eine endliche anzahl von verbotenen strukturen charakterisieren ein wählerprofil ist genau dann single crossing wenn es keine dieser strukturen beinhaltet es wird außerdem ein algorithmus vorgestellt der die single crossing eigenschaft unter verwendung von pq trees bl76 in o nm2 schritten erkennt wobei n die anzahl der wähler und m die anzahl der alternativen ist kapitel 4 behandelt wählerprofile die

eindimensional euklidisch sind d h für die sich die alternativen und wähler so auf die reelle achse abbilden lassen dass für jeden wähler und je zwei alternativen diejenige näher zum wähler abgebildet wird die er der anderen vorzieht es stellt sich heraus dass es im gegensatz zur single crossing eigenschaft nicht möglich ist eindimensionale euklidische profile durch endlich viele verbotene strukturen zu charakterisieren kapitel 5 beschäftigt sich mit der frage wie berechnungsschwer es ist eine bestimmte strukturelle eigenschaft wie z b die single crossing eigenschaft zu erreichen indem man eine möglichst kleine anzahl von wählern oder kandidaten aus einem profil entfernt es zeigt sich dass dieses problem für die single crossing eigenschaft durch das löschen von wählern zwar in polynomieller zeit gelöst werden kann es durch das löschen von kandidaten jedoch np schwer ist für alle anderen eigenschaften sind beide löschensvarianten ebenfalls np schwer allerdings lässt sich für jedes der probleme auf triviale weise mittels des parameters anzahl der zu löschenden wähler bzw alternativen fixed parameter tractability zeigen das bedeutet dass sie effizient lösbar sind wenn der parameter klein ist der grund dafür ist dass sich alle hier betrachteten eigenschaften durch eine endliche anzahl verbotener strukturen charakterisieren lassen deren zerstörung die gewünschte eigenschaft herstellt kapitel 6 führt die kombinatorische variante des bekannten problems control by adding voters ein das erstmals durch bartholdi iii tovey und trick btt92 beschrieben wurde in der klassischen problemstellung gibt es eine menge von nichtregistrierten wählern mit bekannten präferenzen und es wird eine kleinste teilmenge von nichtregistrierten wählern gesucht sodass deren hinzufügen zu einem gegebenen profil einen bestimmten kandidaten zum gewinner macht in der hier beschriebenen variante wird zusätzlich angenommen dass für jeden hinzugefügten wähler auch eine menge von weiteren wählern kostenlos hinzugefügt werden kann dieses problem wird für die beiden bekannten wahlregeln condorcet wahl und mehrheitswahl untersucht wie sich herausstellt ist die problemstellung schon für zwei alternativen np schwer desweiteren werden parameter identifiziert die sich aus den kombinatorischen eigenschaften dieses problems ergeben für diese lässt sich eine beinahe erschöpfende beschreibung der parametrisierten komplexität des problems erstellen in einem fall bleibt unser problem für sogenannte single peaked präferenzen berechnungsschwer während es für single crossing präferenzen in polynomieller zeit lösbar ist kapitel 7 untersucht wie verschiedene natürliche parameter und preisfunktionen die berechnungskomplexität des shift bribery problems efs09 beeiniv flussen darin fragt man ob eine gegebene alternative zum gewinner gemacht werden kann indem sie in den präferenzen einiger wähler nach vorne verschoben wird jede verschiebung hat einen preis und das ziel ist es ein gegegebenes budget nicht zu überschreiten die ergebnisse sind gemischt einige parameter erlauben effiziente algorithmen während für andere das problem schwer bleibt z b für den parameter anzahl der beeinflussten wähler ist das problem sogar w 2 schwer für die optimierungsvariante von shift bribery bei der das verwendete budget minimiert wird erzielen wir einen approximationsalgorithmus mit einem approximationsfaktor von 1 epsilon dessen laufzeit in ihrem nicht polynomiellen anteil nur von epsilon und der anzahl der wähler abhängt kapitel 8 konzentriert sich auf zwei weitverbreitete parlamentarische wahlregeln die successive rule und die amendment rule beide regeln verwenden eine lineare ordnung der alternativen auch agenda genannt es werden drei probleme untersucht manipulation fragt nach der kleinstmöglichen anzahl von wählern mit beliebigen präferenzen deren hinzufügung einen bestimmten kandidaten zum gewinner macht agenda control fragt ob es möglich ist eine agenda derart festzulegen dass ein bestimmter kandidat gewinnt possible necessary winner fragt für unvollständige wählerpräferenzen und oder eine nur teilweise festgelegte agenda ob eine bestimmte alternative überhaupt bzw sicher zum sieger machen kann es stellt sich heraus dass sowohl manipulation als auch agenda control für beide wahlregeln in polynomieller zeit lösbar sind allerdings deuten die ergebnisse einer auf realem wählerverhalten basierenden experimentellen studie darauf hin dass die meisten profile nicht durch einige wenige wähler manipuliert werden können und dass eine erfolgreiche kontrolle mittels agenda typischerweise nicht möglich ist possible winner ist für beide regeln np schwer während necessary winner für die amendment rule conp schwer und für die successive rule in polynomieller zeit lösbar ist alle betrachtete np schwere oder conp schwere wahlprobleme sind fixed parameter tractable für den parameter anzahl der alternativen

American River Watershed, California *2010*

this is the first book to deal with automatic diatom identification it provides the necessary background information concerning diatom research useful for both diatomists and non diatomists it deals with the development of electronic databases image preprocessing automatic contour extraction the application of existing contour and ornamentation features and the development of new ones as well as the

application of different classifiers neural networks decision trees etc these are tested using two image sets i a very difficult set of sellaphora pupula with 6 demes and 120 images ii a mixed genera set with 37 taxa and approximately 800 images the results are excellent and recognition rates well above 90 have been achieved on both sets the results are compared with identification rates obtained by human experts one chapter of the book deals with automatic image capture i e microscope slide scanning at different resolutions using a motorized microscope stage autofocusing multifocus fusion and particle screening to select only diatoms and to reject debris this book is the final scientific report of the european adiac project automatic diatom identification and classification and it lists the web sites with the created public databases and an identification demo contents introduction to adiac and this book h du buf m m bayer diatoms organism and image d g mann diatom applications r j telford et al adiac imaging techniques and databases m m bayer s juggins human error and quality assurance in diatom analysis m g kelly et al contour extraction s fischer et al identification using classical and new features in combination with decision tree ensembles s fischer h bunke identification by curvature of convex and concave segments r e loke h du buf identification by contour profiling and legendre polynomials a ciobanu h du buf identification by gabor features l m santos h du buf identification by mathematical morphology m h f wilkinson et al mixed method identifications m a westenberg j b t m roerdink automatic slide scanning j l pech pacheco g cristóbal adiac achievements and future work h du buf m m bayer readership researchers in pattern recognition and computer vision researchers working with diatoms and psychologists keywords

American River Watershed Common Features Project/Natomas Post-authorization Change Report/Natomas Levee Improvement Program, Phase 4b Landside Improvements Project 1993-01-21

this book analyses the technical and social systems that satisfy these needs and asks how methods can be put into practice to achieve this

Chemical Change in Deforming Materials 2018-10-03

this book constitutes the thoroughly refereed proceedings of the 19th east european conference on advances in databases and information systems adbis 2015 held in poitiers france in september 2015 the 31 full papers and 18 short papers presented were carefully selected and reviewed from 135 submissions the papers are organized in topical sections such as database theory and access methods user requirements and database evolution multidimensional modeling and olap etl transformation extraction and archiving modeling and ontologies time series processing performance and tuning advanced query processing approximation and skyline confidentiality and trust

Video Coding for Wireless Communication Systems 2008-09-24

x ray astronomers discovered the diffuse gas in clusters of galaxies about 20 years ago it was later realized that the central gas density in some clusters and in elliptical galaxies is so high that radiative cooling is a significant energy loss the cooling time of the gas decreases rapidly towards the centre of the cluster or galaxy and is less than a hubble time within the innermost few hundred kiloparsecs this results in a cooling flow in which the gas density rises in order to maintain pressure to support the weight of the overlying gas the rate at which mass is deposited by the flow is inferred to be several hundreds of solar masses per year in some clusters the fraction of clusters in which cooling flows are found may exceed 50 per cent small flows probably occur in most normal elliptical galaxies that are not in rich clusters the implications of this simple phenomenon are profound for we appear to be witnessing the ongoing formation of the central galaxy in particular since most of the gas is undetected once it cools below about 3 million k it appears to form dark matter there is no reason why it should be detectable with current techniques if each cooling proton only recombines once and the matter condenses into objects of low mass

Pro Drupal Development 1983-02-28

the official book on the rust programming language written by the rust development team at the mozilla foundation fully updated for rust 2018 the rust programming language is the official book on rust an open source systems programming language that helps you write faster more reliable software rust offers control over low level details such as memory usage in combination with high level ergonomics eliminating the hassle traditionally associated with low level languages the authors of the rust programming language members of the rust core team share their knowledge and experience to show you how to take full advantage of rust s features from installation to creating robust and scalable programs you ll begin with basics like creating functions choosing data types and binding variables and then move on to more advanced concepts such as ownership and borrowing lifetimes and traits using rust s memory safety guarantees to build fast safe programs testing error handling and effective refactoring generics smart pointers multithreading trait objects and advanced pattern matching using cargo rust s built in package manager to build test and document your code and manage dependencies how best to use rust s advanced compiler with compiler led programming techniques you ll find plenty of code examples throughout the book as well as three chapters dedicated to building complete projects to test your learning a number guessing game a rust implementation of a command line tool and a multithreaded server new to this edition an extended section on rust macros an expanded chapter on modules and appendixes on rust development tools and editions

Computerworld *2013-09-01*

Knockout Cv: How To Get Noticed, Get Interviewed & Get Hired *2016-11-11*

Exploiting structure in computationally hard voting problems *2002-07-12*

Automatic Diatom Identification *2013*

Urban Energy Systems *2015-08-14*

Advances in Databases and Information Systems *2012-12-06*

Cooling Flows in Clusters and Galaxies *2003*

Proceedings AIC 2003 Bangkok *2019-09-03*

The Rust Programming Language (Covers Rust 2018)