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Transforming Further Education and Training in South Africa: Qualitative findings and analysis May 05 2024 This book contains eight papers from a detailed study of technical college provision in KwaZulu-Natal, South Africa, that raised the following four issues relevant to the transformation of technical colleges across South Africa: (1) the teaching and learning environment at technical colleges is suboptimal; (2) social relations at the technical colleges are tense, with few institutions having successfully come to terms with the rapid deracialization of student enrollments in recent years; (3) the labor market surrounding technical colleges appears totally dysfunctional, with few students obtaining employment after technical college training; and (4) the separate development policies of the past necessitate institutional restructuring. The following papers are included: "A Study of Technical Colleges in KwaZulu-Natal: A Methodological Introduction" (Andre Kraak, Graham Hall); "Problems Facing Further Education and Training" (Andre Kraak); "Planning Imperative: New Policy Framework in FET [Further Education and Training]" (Andre Kraak); "Socio-Economic and Educational Profile of KwaZulu-Natal" (Nisaar Mahomed); "Quantitative Overview of the Technical Colleges of KwaZulu-Natal" (Graham Hall); "Learning, Teaching and Management Environment: Evidence from Qualitative Studies" (Andre Kraak); "Autonomy and Responsiveness: Evidence from the Qualitative Case Studies" (Andre Kraak); and "Critical Overview: The Need for Labour Market and Institutional Reform" (Andre Kraak). The bibliography contains 52 references. (MN)

Solutions Teacher Planning Pack Support Book 7 Mar 23 2023 The only AQA GCSE maths series to be exclusively endorsed and approved by AQA, AQA Mathematics for GCSE blends print and electronic resources to provide you with complete reassurance that you have everything you need to deliver the revised 2006 GCSE Mathematics specification.

SIAM Journal on Computing Jan 26 2021 Contains research articles in the application of mathematics to the problems of computer science and the nonnumerical aspects of computing.

The Official ACT Prep Guide 2022-2023, (Book + Online Course) May 01 2021 THE OFFICIAL ACT® PREP GUIDE 2022-2023 – INCLUDES ONLINE COURSE The comprehensive guide to the 2022–2023 ACT test—including 7 genuine, full-length practice tests. The Official ACT® Prep Guide 2022–2023 book includes six authentic ACT tests—all of which contain the optional writing test—so you get

*maximum practice before your official test date. These tests are also available on the Wiley Efficient Learning platform and mobile app alongside a seventh bonus test via the PIN code inside, so you can study your official materials anytime, anywhere. This guide provides clear explanations for every answer straight from the makers of the ACT to help you improve your understanding of each subject. You'll also get: Practical tips and strategies for boosting your score on the English, math, reading, science, and (optional) writing tests 400+ online flashcards to ensure you're mastering key concepts A customizable online test bank Wiley Efficient Learning's personalized exam planner feature, where you can build the study schedule that meets your unique needs Expert advice on how to mentally and physically prepare for your test Through the Official Guide, you'll learn what to expect on test day, understand the types of questions you will encounter when taking the ACT, and adopt test-taking strategies that are right for you. By using this guide and its accompanying expansive resources, you can feel confident you'll be ready to do your best! *Online prep materials valid for one year from PIN code activation.*

Applications of Computer-aided Text Analysis in Natural Resources Nov 06 2021

Organising Knowledge Aug 28 2023 The organization, processing and representation of knowledge becomes increasingly important in all scientific and business contexts. This book focuses on qualitative methods for knowledge organization and their contributions to knowledge-based issues of marketing management research. Besides theoretical discussions of different approaches to and definitions of knowledge and methods for knowledge organization, several case studies in the field of marketing management are presented. Questions of research design, adequate choice of methodologies and practical relevance of the results are addressed.

Unlocking Environmental Narratives Feb 27 2021 Understanding the role of humans in environmental change is one of the most pressing challenges of the 21st century. Environmental narratives – written texts with a focus on the environment – offer rich material capturing relationships between people and surroundings. We take advantage of two key opportunities for their computational analysis: massive growth in the availability of digitised contemporary and historical sources, and parallel advances in the computational analysis of natural language. We open by introducing interdisciplinary research questions related to the environment and amenable to analysis through written sources. The reader is then introduced to potential collections of narratives including newspapers, travel diaries, policy documents, scientific proposals and even fiction. We demonstrate the application of a range of approaches to analysing natural language computationally, introducing key ideas through worked examples, and providing

access to the sources analysed and accompanying code. The second part of the book is centred around case studies, each applying computational analysis to some aspect of environmental narrative. Themes include the use of language to describe narratives about glaciers, urban gentrification, diversity and writing about nature and ways in which locations are conceptualised and described in nature writing. We close by reviewing the approaches taken, and presenting an interdisciplinary research agenda for future work. The book is designed to be of interest to newcomers to the field and experienced researchers, and set out in a way that it can be used as an accompanying text for graduate level courses in, for example, geography, environmental history or the digital humanities.

Survey of Accounting Practices in the European Oil and Gas Industry Dec 08 2021

Work Related Abstracts Oct 06 2021

IJER Vol 26-N4 Jun 06 2024 The mission of the International Journal of Educational Reform (IJER) is to keep readers up-to-date with worldwide developments in education reform by providing scholarly information and practical analysis from recognized international authorities.

Digital Image Processing Aug 16 2022 This long-established and well-received monograph offers an integral view of image processing - from image acquisition to the extraction of the data of interest – written by a physical scientists for other scientists. Supplements discussion of the general concepts is supplemented with examples from applications on PC-based image processing systems and ready-to-use implementations of important algorithms. Completely revised and extended, the most notable extensions being a detailed discussion on random variables and fields, 3-D imaging techniques and a unified approach to regularized parameter estimation. Complete text of the book is now available on the accompanying CD-ROM. It is hyperlinked so that it can be used in a very flexible way. CD-ROM contains a full set of exercises to all topics covered by this book and a runtime version of the image processing software heurisko. A large collection of images, image sequences, and volumetric images is available for practice exercises

California. Court of Appeal (3rd Appellate District). Records and Briefs Aug 04 2021 Number of Exhibits: 30 Received document entitled: APPENDIX IN SUPPORT OF BRIEF OF AMICI CURIAE

The Official ACT Prep Guide 2023-2024, (Book + Online Course) Jul 03 2021 The comprehensive guide to the 2023–2024 ACT test—including 8 genuine, full-length practice tests. The Official ACT® Prep Guide 2023–2024 book includes six authentic ACT tests—all of which contain the optional writing test—so you get maximum practice before your test date. These full-length practice tests are also available on the Wiley Efficient Learning platform and mobile app alongside two

additional bonus tests via the PIN code inside, so you can study your official materials anytime, anywhere. This guide provides clear explanations for every answer straight from the makers of the ACT to help you improve your understanding of each subject. You'll get: Practical tips and strategies for boosting your score on the English, math, reading, science, and (optional) writing tests Eight total practice tests—six in the book, eight online 400+ online flashcards to ensure you're mastering key concepts A customizable online test bank Wiley Efficient Learning's personalized exam planner feature, where you can build the study schedule that meets your unique needs Expert advice on how to mentally and physically prepare for your test This edition has been updated with a new practice test, new writing samples and prompts, so you can be sure your materials will set you up for success on today's ACT. Through the Official Guide, you'll learn what to expect on test day, understand the types of questions you will encounter when taking the ACT, and adopt test-taking strategies that are right for you. By using this guide and its accompanying expansive resources, you can feel confident you'll be ready to do your best! *Online prep materials valid for one year from PIN code activation.*

Health Promotion Feb 19 2023 Written for all professionals who strive to improve the health of others.

EcoPopulism Jun 25 2023 In the popular politics of hazardous waste, Andrew Szasz finds an answer, a scenario for taking the most pressing environmental issues out of the academy and the boardroom and turning them into everyone's business. This work reconstructs the growth of a powerful movement around the question of toxic waste. Szasz follows the issue as it moves from the world of "official" policy-making, onto television and into popular consciousness, and then into neighbourhoods, spurring on the formation of thousands of local, community-based groups. He shows how, in less than a decade, a rich infrastructure of more permanent social organizations emerged from this movement, expanding its focus to include issues like municipal waste, military toxics, and pesticides. Szasz identifies the force that pushed environmental policy away from the traditional approach - pollution removal - toward the superior logic of pollution prevention. He discusses the conflicting official responses to the movement's evolution, revealing that, despite initial resistance, law-makers eventually sought to appease popular discontent by strengthening toxic waste laws. In its success, Szasz suggests, this movement may even prove to be the vehicle for reinvigorating progressive politics.

Online Searching Oct 18 2022 Online Searching is your complete guide to becoming a superstar searcher, wielding advanced searching features, strategies, and tactics for answering questions on any topic under the sun as well as finding answers in trusted, quality sources.

Teaching and Assessing Clinical Competence May 25 2023

How to Find Answers to Your Special Education Questions Dec 20 2022 This booklet explains how the ERIC (Educational Resources Information Center) and ECER (Exceptional Child Education Resources) databases can be used to find information about the education of individuals who have disabilities or who are gifted. The guide describes ERIC as a federally funded information system with a database of over 400,000 journal annotations and 300,000 education-related document abstracts. It discusses the clearinghouses that comprise ERIC and outlines how ERIC can be accessed, how to search ERIC manually or by computer, how to locate subject descriptors for search topics and apply Boolean logic to a search, and where to get copies of materials found in ERIC. ECER is then described as a database of citations and abstracts of English-language print and nonprint materials dealing with education and development of people of all ages with disabilities or giftedness. ECER's content is distinguished from ERIC's and search procedures are outlined. The two final chapters discuss services of ERIC clearinghouses and procedures for contributing documents to the ERIC database. Appendixes provide an ERIC search worksheet; ERIC descriptors for disabilities and giftedness; ERIC publication types; order forms for ERIC articles and documents; sample document resumes; guidelines for accessing ERIC through computer networks; and lists of organizations in the field of disabilities and giftedness, special education databases, ERIC clearinghouses, special education journals, online vendors, and 13 print resources. (JDD)

Modelling, Computation and Optimization in Information Systems and Management Sciences Sep 16 2022 Constitutes the refereed proceedings of the Second International Conference MCO 2008, Metz, France, September 2008. This title organizes the papers in topical sections on optimization and decision making; data mining theory, systems and applications; computer vision and image processing; and computer communications and networks.

Librarian's Guide to Online Searching Feb 07 2022 Understanding and navigating online databases is an essential skill for today's librarians, but staying current in this changing landscape can be a challenge. The fifth edition of this vital book ensures that you meet that challenge. Today's librarians not only need to know about existing databases and how to perform searches within them but must also be able to teach search capabilities and strategies to library users. This practical guide introduces librarians to a broad spectrum of the fee-based and freely-available databases that are available, some of which are new to this edition, and explains their underlying information structures as well as updates to some standard databases. In addition, it covers search strategies, provides criteria for evaluating databases, and discusses how to teach others about databases. As in

the previous edition, this book takes a "real world approach," covering everything from basic and advanced search tools to online subject databases. Each chapter includes a thorough discussion, recap, concrete examples, exercises, and points to consider, making this an ideal text for courses in database searching as well as a trustworthy professional resource.

CryptoSchool Oct 30 2023 This book offers an introduction to cryptology, the science that makes secure communications possible, and addresses its two complementary aspects: cryptography—--the art of making secure building blocks—--and cryptanalysis—--the art of breaking them. The text describes some of the most important systems in detail, including AES, RSA, group-based and lattice-based cryptography, signatures, hash functions, random generation, and more, providing detailed underpinnings for most of them. With regard to cryptanalysis, it presents a number of basic tools such as the differential and linear methods and lattice attacks. This text, based on lecture notes from the author's many courses on the art of cryptography, consists of two interlinked parts. The first, modern part explains some of the basic systems used today and some attacks on them. However, a text on cryptology would not be complete without describing its rich and fascinating history. As such, the colorfully illustrated historical part interspersed throughout the text highlights selected inventions and episodes, providing a glimpse into the past of cryptology. The first sections of this book can be used as a textbook for an introductory course to computer science or mathematics students. Other sections are suitable for advanced undergraduate or graduate courses. Many exercises are included. The emphasis is on providing reasonably complete explanation of the background for some selected systems.

General Technical Report NC. Jan 09 2022

Space-Time Integration in Geography and GIScience Sep 04 2021 Space-time analysis is a rapidly growing research frontier in geography, GIS, and GIScience. Advances in integrated GPS/GIS technologies, the availability of large datasets (over time and space), and increased capacity to manage, integrate, model and visualize complex data in (near) real time, offer the GIS and geography communities extraordinary opportunities to begin to integrate sophisticated space-time analysis and models in the study of complex environmental and social systems, from climate change to infectious disease transmission. This volume specifically focuses on research frontiers, comparative research, and research and application interactions in this field in the US and China, arguably the two most dynamic loci for this work today. The contributions to this book, by top researchers in China and the US, productively highlight the differences and similarities in approaches and directions for space-time analysis in the two countries. In light of the recent rapid progress in GIScience research on space-

time integration in both countries, the book's focus on research frontiers in these two countries will attract great interest in both countries and in other parts of the world as well as among related disciplines. In addition, the book also explores the impact of collaborative research and publications underway in this area between the US and China and will provide an overview of these collaborative efforts and programs. This book will not only be of interest to university-based GIS researchers and students, but also to those interested in this new area of research and applications like researchers and developers in business, internet mapping and GIS and location based services (LBS).

Parallel Computing Using Optical Interconnections Sep 28 2023 Advances in optical technologies have made it possible to implement optical interconnections in future massively parallel processing systems. Photons are non-charged particles, and do not naturally interact. Consequently, there are many desirable characteristics of optical interconnects, e.g. high speed (speed of light), increased fanout, high bandwidth, high reliability, longer interconnection lengths, low power requirements, and immunity to EMI with reduced crosstalk. Optics can utilize free-space interconnects as well as guided wave technology, neither of which has the problems of VLSI technology mentioned above. Optical interconnections can be built at various levels, providing chip-to-chip, module-to-module, board-to-board, and node-to-node communications. Massively parallel processing using optical interconnections poses new challenges; new system configurations need to be designed, scheduling and data communication schemes based on new resource metrics need to be investigated, algorithms for a wide variety of applications need to be developed under the novel computation models that optical interconnections permit, and so on. Parallel Computing Using Optical Interconnections is a collection of survey articles written by leading and active scientists in the area of parallel computing using optical interconnections. This is the first book which provides current and comprehensive coverage of the field, reflects the state of the art from high-level architecture design and algorithmic points of view, and points out directions for further research and development.

Solutions Teacher Planning Pack Extension Book 7 May 13 2022 This is a major new series developed to provide complete coverage of the framework for teaching mathematics and Medium Term Plan in a highly accessible and modern format.

TeeJay SQA National 4 Applications of Mathematics Jan 21 2023 Help students to apply their mathematical skills in real-life contexts, as they learn and develop through TeeJay's fun and accessible approach to SQA National 4 Applications of Maths. This book provides hundreds of practice questions, with progression and consolidation - the core TeeJay philosophy - underpinning every exercise and chapter. br" Contains three freestanding study areas covering Numeracy,

Geometry & Measure and Finance & Statistics

Polynomial Methods in Combinatorics Apr 23 2023 This book explains some recent applications of the theory of polynomials and algebraic geometry to combinatorics and other areas of mathematics. One of the first results in this story is a short elegant solution of the Kakeya problem for finite fields, which was considered a deep and difficult problem in combinatorial geometry. The author also discusses in detail various problems in incidence geometry associated to Paul Erdős's famous distinct distances problem in the plane from the 1940s. The proof techniques are also connected to error-correcting codes, Fourier analysis, number theory, and differential geometry. Although the mathematics discussed in the book is deep and far-reaching, it should be accessible to first- and second-year graduate students and advanced undergraduates. The book contains approximately 100 exercises that further the reader's understanding of the main themes of the book.

People of the State of Illinois V. James Nov 18 2022

Vedic Maths for 8th Class (Second Edition) Apr 11 2022 Mathematics is a tricky subject. Those who love, enjoy it much and those who don't, feel it's boring. I lost interest in mathematics while in 7th class. Based on whatever I remember, it was mainly due to a lack of understanding of negative numbers. By nature, I am a kinaesthetic person and therefore I refuse to accept anything unless understood thoroughly. Generally, just memorization doesn't work for me and the same thing happened about the multiplication of negative numbers. Our teacher presented them as rules and I refused to accept them at face value. One year later my cousin's grandfather started living with us and he had a great interest in teaching. Moreover, his concepts in mathematics were extremely clear and he could answer all my crazy questions. This retriggered my interest in mathematics. The whole journey was so joyful that I wish everyone get a grandfather like him who is at home to help with fundamental questions in studies. When I started thinking about developing books as per the curriculum, the next question was which board to follow. After a bit of research, I got to know that CBSE is a most popular board in India and therefore I decided to develop Vedic Math books for the CBSE curriculum. Finally, I had a choice of developing books from class I and I decided to develop the first book for class VIII. Class VIII is the foundation for board exams and therefore I felt this is the right time to start strengthening our knowledge, skills, and abilities. The book is designed in such a way that all required methods from Vedic math are covered here and the student need not refer to any other book to learn the basics. Secondly, numbers (data) are represented in pictorial format or charts wherever appropriate. This certainly simplifies the learning. I have explained principles wherever relevant. This shall help the pupil to understand

them further and apply them confidently.

Frontiers in Algorithmics Jan 01 2024 This book constitutes the proceedings of the 11th International Workshop on Frontiers in Algorithmics, FAW 2017, held in Chengdu, China, in June 2017. The 24 papers presented in this volume were carefully reviewed and selected from 61 submissions. They deal with all aspects of theoretical computer science and algorithms.

*The Official ACT Prep Guide 2022-2023 Mar 30 2021 THE OFFICIAL ACT® PREP GUIDE 2022-2023 – INCLUDES ONLINE COURSE The comprehensive guide to the 2022–2023 ACT test—including 7 genuine, full-length practice tests. The Official ACT® Prep Guide 2022–2023 book includes six authentic ACT tests—all of which contain the optional writing test—so you get maximum practice before your official test date. These tests are also available on the Wiley Efficient Learning platform and mobile app alongside a seventh bonus test via the PIN code inside, so you can study your official materials anytime, anywhere. This guide provides clear explanations for every answer straight from the makers of the ACT to help you improve your understanding of each subject. You'll also get: Practical tips and strategies for boosting your score on the English, math, reading, science, and (optional) writing tests 400+ online flashcards to ensure you're mastering key concepts A customizable online test bank Wiley Efficient Learning's personalized exam planner feature, where you can build the study schedule that meets your unique needs Expert advice on how to mentally and physically prepare for your test Through the Official Guide, you'll learn what to expect on test day, understand the types of questions you will encounter when taking the ACT, and adopt test-taking strategies that are right for you. By using this guide and its accompanying expansive resources, you can feel confident you'll be ready to do your best! *Online prep materials valid for one year from PIN code activation.*

Using NVIVO in Qualitative Research Feb 02 2024 From getting started to completing your research project, this book provides a practical guide to using QSR NVivo. Written in clear language, it contains six tutorials to use with your own data. Much more than a manual, the book offers advice with each section, addressing a range of research approaches and priorities. Each chapter starts with an overview and includes tips on design issues and ways of flexibly managing your project. The CD-ROM that orignally accompanied this book and its contents are no longer available. For more details on the latest versions of the QSR NVivo software please visit https://www.qsrinternational.com/

Proceedings of the Seventeenth Annual ACM-SIAM Symposium on Discrete Algorithms Jul 27 2023 Symposium held in Miami, Florida, January 22–24, 2006.This symposium is jointly sponsored by the ACM Special Interest Group on Algorithms and Computation Theory and the SIAM Activity Group on Discrete

Mathematics.Contents Preface; Acknowledgments; Session 1A: Confronting Hardness Using a Hybrid Approach, Virginia Vassilevska, Ryan Williams, and Shan Leung Maverick Woo; A New Approach to Proving Upper Bounds for MAX-2-SAT, Arist Kojevnikov and Alexander S. Kulikov, Measure and Conquer: A Simple O(20.288n) Independent Set Algorithm, Fedor V. Fomin, Fabrizio Grandoni, and Dieter Kratsch; A Polynomial Algorithm to Find an Independent Set of Maximum Weight in a Fork-Free Graph, Vadim V. Lozin and Martin Milanic; The Knuth-Yao Quadrangle-Inequality Speedup is a Consequence of Total-Monotonicity, Wolfgang W. Bein, Mordecai J. Golin, Larry L. Larmore, and Yan Zhang; Session 1B: Local Versus Global Properties of Metric Spaces, Sanjeev Arora, László Lovász, Ilan Newman, Yuval Rabani, Yuri Rabinovich, and Santosh Vempala; Directed Metrics and Directed Graph Partitioning Problems, Moses Charikar, Konstantin Makarychev, and Yury Makarychev; Improved Embeddings of Graph Metrics into Random Trees, Kedar Dhamdhere, Anupam Gupta, and Harald Räcke; Small Hop-diameter Sparse Spanners for Doubling Metrics, T-H. Hubert Chan and Anupam Gupta; Metric Cotype, Manor Mendel and Assaf Naor; Session 1C: On Nash Equilibria for a Network Creation Game, Susanne Albers, Stefan Eilts, Eyal Even-Dar, Yishay Mansour, and Liam Roditty; Approximating Unique Games, Anupam Gupta and Kunal Talwar; Computing Sequential Equilibria for Two-Player Games, Peter Bro Miltersen and Troels Bjerre Sørensen; A Deterministic Subexponential Algorithm for Solving Parity Games, Marcin Jurdzinski, Mike Paterson, and Uri Zwick; Finding Nucleolus of Flow Game, Xiaotie Deng, Qizhi Fang, and Xiaoxun Sun, Session 2: Invited Plenary Abstract: Predicting the "Unpredictable", Rakesh V. Vohra, Northwestern University; Session 3A: A Near-Tight Approximation Lower Bound and Algorithm for the Kidnapped Robot Problem, Sven Koenig, Apurva Mudgal, and Craig Tovey; An Asymptotic Approximation Algorithm for 3D-Strip Packing, Klaus Jansen and Roberto Solis-Oba; Facility Location with Hierarchical Facility Costs, Zoya Svitkina and Éva Tardos; Combination Can Be Hard: Approximability of the Unique Coverage Problem, Erik D. Demaine, Uriel Feige, Mohammad Taghi Hajiaghayi, and Mohammad R. Salavatipour; Computing Steiner Minimum Trees in Hamming Metric, Ernst Althaus and Rouven Naujoks; Session 3B: Robust Shape Fitting via Peeling and Grating Coresets, Pankaj K. Agarwal, Sariel Har-Peled, and Hai Yu; Tightening Non-Simple Paths and Cycles on Surfaces, Éric Colin de Verdière and Jeff Erickson; Anisotropic Surface Meshing, Siu-Wing Cheng, Tamal K. Dey, Edgar A. Ramos, and Rephael Wenger; Simultaneous Diagonal Flips in Plane Triangulations, Prosenjit Bose, Jurek Czyzowicz, Zhicheng Gao, Pat Morin, and David R. Wood; Morphing Orthogonal Planar Graph Drawings, Anna Lubiw, Mark Petrick, and Michael Spriggs; Session 3C:

Overhang, Mike Paterson and Uri Zwick; On the Capacity of Information Networks, Micah Adler, Nicholas J. A. Harvey, Kamal Jain, Robert Kleinberg, and April Rasala Lehman; Lower Bounds for Asymmetric Communication Channels and Distributed Source Coding, Micah Adler, Erik D. Demaine, Nicholas J. A. Harvey, and Mihai Patrascu; Self-Improving Algorithms, Nir Ailon, Bernard Chazelle, Seshadhri Comandur, and Ding Liu; Cake Cutting Really is Not a Piece of Cake, Jeff Edmonds and Kirk Pruhs; Session 4A: Testing Triangle-Freeness in General Graphs, Noga Alon, Tali Kaufman, Michael Krivelevich, and Dana Ron; Constraint Solving via Fractional Edge Covers, Martin Grohe and Dániel Marx; Testing Graph Isomorphism, Eldar Fischer and Arie Matsliah; Efficient Construction of Unit Circular-Arc Models, Min Chih Lin and Jayme L. Szwarcfiter, On The Chromatic Number of Some Geometric Hypergraphs, Shakhar Smorodinsky; Session 4B: A Robust Maximum Completion Time Measure for Scheduling, Moses Charikar and Samir Khuller; Extra Unit-Speed Machines are Almost as Powerful as Speedy Machines for Competitive Flow Time Scheduling, Ho-Leung Chan, Tak-Wah Lam, and Kin-Shing Liu; Improved Approximation Algorithms for Broadcast Scheduling, Nikhil Bansal, Don Coppersmith, and Maxim Sviridenko; Distributed Selfish Load Balancing, Petra Berenbrink, Tom Friedetzky, Leslie Ann Goldberg, Paul Goldberg, Zengjian Hu, and Russell Martin; Scheduling Unit Tasks to Minimize the Number of Idle Periods: A Polynomial Time Algorithm for Offline Dynamic Power Management, Philippe Baptiste; Session 4C: Rank/Select Operations on Large Alphabets: A Tool for Text Indexing, Alexander Golynski, J. Ian Munro, and S. Srinivasa Rao; O(log log n)-Competitive Dynamic Binary Search Trees, Chengwen Chris Wang, Jonathan Derryberry, and Daniel Dominic Sleator; The Rainbow Skip Graph: A Fault-Tolerant Constant-Degree Distributed Data Structure, Michael T. Goodrich, Michael J. Nelson, and Jonathan Z. Sun; Design of Data Structures for Mergeable Trees, Loukas Georgiadis, Robert E. Tarjan, and Renato F. Werneck; Implicit Dictionaries with O(1) Modifications per Update and Fast Search, Gianni Franceschini and J. Ian Munro; Session 5A: Sampling Binary Contingency Tables with a Greedy Start, Ivona Bezáková, Nayantara Bhatnagar, and Eric Vigoda; Asymmetric Balanced Allocation with Simple Hash Functions, Philipp Woelfel; Balanced Allocation on Graphs, Krishnaram Kenthapadi and Rina Panigrahy; Superiority and Complexity of the Spaced Seeds, Ming Li, Bin Ma, and Louxin Zhang; Solving Random Satisfiable 3CNF Formulas in Expected Polynomial Time, Michael Krivelevich and Dan Vilenchik; Session 5B: Analysis of Incomplete Data and an Intrinsic-Dimension Helly Theorem, Jie Gao, Michael Langberg, and Leonard J. Schulman; Finding Large Sticks and Potatoes in Polygons, Olaf Hall-Holt, Matthew J. Katz, Piyush Kumar, Joseph S. B. Mitchell, and Arik Sityon; Randomized Incremental

Construction of Three-Dimensional Convex Hulls and Planar Voronoi Diagrams, and Approximate Range Counting, Haim Kaplan and Micha Sharir; Vertical Ray Shooting and Computing Depth Orders for Fat Objects, Mark de Berg and Chris Gray; On the Number of Plane Graphs, Oswin Aichholzer, Thomas Hackl, Birgit Vogtenhuber, Clemens Huemer, Ferran Hurtado, and Hannes Krasser; Session 5C: All-Pairs Shortest Paths for Unweighted Undirected Graphs in o(mn) Time, Timothy M. Chan; An O(n log n) Algorithm for Maximum st-Flow in a Directed Planar Graph, Glencora Borradaile and Philip Klein; A Simple GAP-Canceling Algorithm for the Generalized Maximum Flow Problem, Mateo Restrepo and David P. Williamson; Four Point Conditions and Exponential Neighborhoods for Symmetric TSP, Vladimir Deineko, Bettina Klinz, and Gerhard J. Woeginger; Upper Degree-Constrained Partial Orientations, Harold N. Gabow; Session 7A: On the Tandem Duplication-Random Loss Model of Genome Rearrangement, Kamalika Chaudhuri, Kevin Chen, Radu Mihaescu, and Satish Rao; Reducing Tile Complexity for Self-Assembly Through Temperature Programming, Ming-Yang Kao and Robert Schweller; Cache-Oblivious String Dictionaries, Gerth Stølting Brodal and Rolf Fagerberg; Cache-Oblivious Dynamic Programming, Rezaul Alam Chowdhury and Vijaya Ramachandran; A Computational Study of External-Memory BFS Algorithms, Deepak Ajwani, Roman Dementiev, and Ulrich Meyer; Session 7B: Tight Approximation Algorithms for Maximum General Assignment Problems, Lisa Fleischer, Michel X. Goemans, Vahab S. Mirrokni, and Maxim Sviridenko; Approximating the k-Multicut Problem, Daniel Golovin, Viswanath Nagarajan, and Mohit Singh; The Prize-Collecting Generalized Steiner Tree Problem Via A New Approach Of Primal-Dual Schema, Mohammad Taghi Hajiaghayi and Kamal Jain; 8/7-Approximation Algorithm for (1,2)-TSP, Piotr Berman and Marek Karpinski; Improved Lower and Upper Bounds for Universal TSP in Planar Metrics, Mohammad T. Hajiaghayi, Robert Kleinberg, and Tom Leighton; Session 7C: Leontief Economies Encode NonZero Sum Two-Player Games, B. Codenotti, A. Saberi, K. Varadarajan, and Y. Ye; Bottleneck Links, Variable Demand, and the Tragedy of the Commons, Richard Cole, Yevgeniy Dodis, and Tim Roughgarden; The Complexity of Quantitative Concurrent Parity Games, Krishnendu Chatterjee, Luca de Alfaro, and Thomas A. Henzinger; Equilibria for Economies with Production: Constant-Returns Technologies and Production Planning Constraints, Kamal Jain and Kasturi Varadarajan; Session 8A: Approximation Algorithms for Wavelet Transform Coding of Data Streams, Sudipto Guha and Boulos Harb; Simpler Algorithm for Estimating Frequency Moments of Data Streams, Lakshimath Bhuvanagiri, Sumit Ganguly, Deepanjan Kesh, and Chandan Saha; Trading Off Space for Passes in Graph Streaming Problems, Camil Demetrescu, Irene Finocchi, and Andrea Ribichini; Maintaining

Significant Stream Statistics over Sliding Windows, L.K. Lee and H.F. Ting; Streaming and Sublinear Approximation of Entropy and Information Distances, Sudipto Guha, Andrew McGregor, and Suresh Venkatasubramanian; Session 8B: FPTAS for Mixed-Integer Polynomial Optimization with a Fixed Number of Variables, J. A. De Loera, R. Hemmecke, M. Köppe, and R. Weismantel; Linear Programming and Unique Sink Orientations, Bernd Gärtner and Ingo Schurr; Generating All Vertices of a Polyhedron is Hard, Leonid Khachiyan, Endre Boros, Konrad Borys, Khaled Elbassioni, and Vladimir Gurvich; A Semidefinite Programming Approach to Tensegrity Theory and Realizability of Graphs, Anthony Man-Cho So and Yinyu Ye; Ordering by Weighted Number of Wins Gives a Good Ranking for Weighted Tournaments, Don Coppersmith, Lisa Fleischer, and Atri Rudra; Session 8C: Weighted Isotonic Regression under L1 Norm, Stanislav Angelov, Boulos Harb, Sampath Kannan, and Li-San Wang; Oblivious String Embeddings and Edit Distance Approximations, Tugkan Batu, Funda Ergun, and Cenk Sahinalp0898716012\\This comprehensive book not only introduces the C and C++ programming languages but also shows how to use them in the numerical solution of partial differential equations (PDEs). It leads the reader through the entire solution process, from the original PDE, through the discretization stage, to the numerical solution of the resulting algebraic system. The well-debugged and tested code segments implement the numerical methods efficiently and transparently. Basic and advanced numerical methods are introduced and implemented easily and efficiently in a unified object-oriented approach.

The Search for Mathematical Roots, 1870-1940 Mar 11 2022 While many books have been written about Bertrand Russell's philosophy and some on his logic, I. Grattan-Guinness has written the first comprehensive history of the mathematical background, content, and impact of the mathematical logic and philosophy of mathematics that Russell developed with A. N. Whitehead in their Principia mathematica (1910-1913). ? This definitive history of a critical period in mathematics includes detailed accounts of the two principal influences upon Russell around 1900: the set theory of Cantor and the mathematical logic of Peano and his followers. Substantial surveys are provided of many related topics and figures of the late nineteenth century: the foundations of mathematical analysis under Weierstrass; the creation of algebraic logic by De Morgan, Boole, Peirce, Schröder, and Jevons; the contributions of Dedekind and Frege; the phenomenology of Husserl; and the proof theory of Hilbert. The many-sided story of the reception is recorded up to 1940, including the rise of logic in Poland and the impact on Vienna Circle philosophers Carnap and Gödel. A strong American theme runs though the story, beginning with the mathematician E. H. Moore and

the philosopher Josiah Royce, and stretching through the emergence of Church and Quine, and the 1930s immigration of Carnap and Gödel. Grattan-Guinness draws on around fifty manuscript collections, including the Russell Archives, as well as many original reviews. The bibliography comprises around 1,900 items, bringing to light a wealth of primary materials. Written for mathematicians, logicians, historians, and philosophers--especially those interested in the historical interaction between these disciplines--this authoritative account tells an important story from its most neglected point of view. Whitehead and Russell hoped to show that (much of) mathematics was expressible within their logic; they failed in various ways, but no definitive alternative position emerged then or since.

The Epidemic of Rape and Child Sexual Abuse in the United States Apr 04 2024 This study evaluates the findings of the last 15 years regarding the prevalence of sexual assault against women and girls. It discusses the politicised debates surrounding the issue and provides a definitive statement on the realities.

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Combinatorial Geometry and Its Algorithmic Applications Jul 15 2022 "Based on

a lecture series given by the authors at a satellite meeting of the 2006 International Congress of Mathematicians and on many articles written by them and their collaborators, this volume provides a comprehensive up-to-date survey of several core areas of combinatorial geometry. It describes the beginnings of the subject, going back to the nineteenth century (if not to Euclid), and explains why counting incidences and estimating the combinatorial complexity of various arrangements of geometric objects became the theoretical backbone of computational geometry in the 1980s and 1990s. The combinatorial techniques outlined in this book have found applications in many areas of computer science from graph drawing through hidden surface removal and motion planning to frequency allocation in cellular networks. "Combinatorial Geometry and Its Algorithmic Applications" is intended as a source book for professional mathematicians and computer scientists as well as for graduate students interested in combinatorics and geometry. Most chapters start with an attractive, simply formulated, but often difficult and only partially answered mathematical question, and describes the most efficient techniques developed for its solution. The text includes many challenging open problems, figures, and an extensive bibliography."--BOOK JACKET.

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