

N3 Science Question Paper 2014 April

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Self-Reported Population Health: An International Perspective based on EQ-5D
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Handbook of Critical and Indigenous Methodologies

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Identifying the Culprit

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential

equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

Current Index to Journals in Education Semi-Annual Cumulations, 1986

Focusing on the integral role of the researcher, *Qualitative Research for the Social Sciences* uses a conversational writing style that draws readers into the excitement of the research process. Marilyn Lichtman offers a balanced and nuanced approach, covering the full range of qualitative methodologies and viewpoints about the field, including coverage of social media as a tool to facilitate research or as a venue for study. After presenting theoretical concepts and a historical overview, Lichtman guides readers, step by step, through the research process, addressing issues of analyzing data, presenting completed research, and evaluating research. Real-world examples from across the social sciences provide both practical and theoretical information, helping readers understand abstract ideas and apply them to their own research.

Understanding Machine Learning

National Live Stock Journal

Engineering Science N4

The Art of Computer Programming, Volume 4A: Combinatorial Algorithms, Part 1 Knuth's multivolume analysis of algorithms is widely recognized as the definitive description of classical computer science. The first three volumes of this work have long comprised a unique and invaluable resource in programming theory and practice. Scientists have marveled at the beauty and elegance of Knuth's analysis, while practicing programmers have successfully applied his "cookbook" solutions to their day-to-day problems. The level of these first three volumes has remained so high, and they have displayed so wide and deep a familiarity with the art of computer programming, that a sufficient "review" of future volumes could almost be: "Knuth, Volume n has been published." —Data Processing Digest Knuth, Volume n has been published, where $n = 4A$. In this long-awaited new volume, the old master turns his attention to some of his favorite topics in broadword computation and combinatorial generation (exhaustively listing fundamental combinatorial objects, such as permutations, partitions, and trees), as well as his more recent interests, such as binary decision diagrams. The hallmark qualities that distinguish his previous volumes are manifest here anew: detailed coverage of the basics, illustrated with well-chosen examples; occasional forays into more esoteric topics and problems at the frontiers of research; impeccable writing peppered with occasional bits of humor; extensive collections of exercises, all with

solutions or helpful hints; a careful attention to history; implementations of many of the algorithms in his classic step-by-step form. There is an amazing amount of information on each page. Knuth has obviously thought long and hard about which topics and results are most central and important, and then, what are the most intuitive and succinct ways of presenting that material. Since the areas that he covers in this volume have exploded since he first envisioned writing about them, it is wonderful how he has managed to provide such thorough treatment in so few pages. —Frank Ruskey, Department of Computer Science, University of Victoria

The book is Volume 4A, because Volume 4 has itself become a multivolume undertaking. Combinatorial searching is a rich and important topic, and Knuth has too much to say about it that is new, interesting, and useful to fit into a single volume, or two, or maybe even three. This book alone includes approximately 1500 exercises, with answers for self-study, plus hundreds of useful facts that cannot be found in any other publication. Volume 4A surely belongs beside the first three volumes of this classic work in every serious programmer's library. Finally, after a wait of more than thirty-five years, the first part of Volume 4 is at last ready for publication. Check out the boxed set that brings together Volumes 1 - 4A in one elegant case, and offers the purchaser a \$50 discount off the price of buying the four volumes individually. The Art of Computer Programming, Volumes 1-4A Boxed Set, 3/e ISBN: 0321751043

Integration of AI and OR Techniques in Constraint Programming

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and analysis of algorithms for data.

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The Handbook of Critical Methodologies covers everything from the history of critical and indigenous theory and how it came to inform and impact qualitative research and indigenous peoples to the critical constructs themselves, including race/diversity, gender representation (queer theory, feminism), culture, and politics to the meaning of "critical" concepts within specific disciplines (critical psychology, critical communication/mass communication, media studies, cultural studies, political economy, education, sociology, anthropology, history, etc. - all in

an effort to define emancipatory research and explore what critical qualitative research can do for social change and social justice.

Writing Your Doctoral Dissertation or Thesis Faster

A doctoral dissertation is arguably the most important journey that students will embark upon in their professional careers, so smart travelers will want E. Alana James and Tracesea H. Slater's *Writing Your Doctoral Dissertation or Thesis Faster: A Proven Map to Success* at their fingertips. James and Slater identify the key places and challenges that create extra stress during the dissertation process, and offer effective strategies and tools to address those challenges and ensure academic success. Their map walks readers through each step of the process, including: • determining the research topic, • choosing appropriate methods, • turning a hypothesis into a study, • completing a literature review, • writing and defending a proposal, • collecting and analyzing data, • writing up the study, and • ultimately defending the dissertation. Building on years of experience with doctoral students, the authors provide a comprehensive, yet easy-to-use tool that encourages student reflection; includes student stories, hints, and writing tips; and provides end-of-chapter checklists and ideas for incorporating social media. With the proven techniques and guidance of this indispensable and applied book, doctoral students will finish their thesis or dissertation—faster!

Security in Computing

The EQ-5D instrument, as a standardized, cross-culturally validated measure of self-assessed health has a hugely important role in understanding population health within and across countries. Over the past two decades a wealth of international population health survey data have been accumulated by the EuroQol Group from research conducted in many countries across four continents. One of the success factors of the EQ-5D instruments has been the easy availability of national or international sets of EQ-5D data, as well as clear explanations and guidance for users. There is an unmet need to produce a comprehensive book that captures up-to-date and expanded information of EQ-5D self-reported health and index values. EQ-5D population norms and cross-country analyses are provided from representative national surveys of 20 countries and additional regional surveys. This book will be a must for those who believe that how people report and value health is very important.

AJCC Cancer Staging Manual

This book explores three global issues - climate change, peak oil and the limits to growth. It sets out the facts about the inevitable yet still largely unknown changes, and examines the feelings and attitudes the coming changes engender. It offers teachers ways to engage with vital but too often avoided issues, and to share success stories and sources of hope for the future. In these troubled and fast changing times yesterday is no longer an accurate guide to tomorrow. We have to understand and be able to prepare young people for a future very different from today's world. This book is about developing new ways of being and exploring new horizons. The insight and support it provides will help make teachers more

knowledgeable and better able to prepare learners for the transition to a post-carbon future. This book is essential reading for primary and secondary teachers and for students and tutors in Initial Teacher Education. It will also be of value to headteachers, governors, educational researchers and others concerned with matching policy and practice to the demands of changing times. It will develop critical enquiry in Geography, English, Science, Citizenship Education, Personal, Social and Health Education and inspire those working in education for sustainability, sustainable schools and global education.

Current Research in Egyptology 2014

The SAGE Handbook of Special Education

Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Visualizing Social Science Research

The American Joint Committee on Cancer's Cancer Staging Manual is used by physicians throughout the world to diagnose cancer and determine the extent to which cancer has progressed. All of the TNM staging information included in this Sixth Edition is uniform between the AJCC (American Joint Committee on Cancer) and the UICC (International Union Against Cancer). In addition to the information found in the Handbook, the Manual provides standardized data forms for each anatomic site, which can be utilized as permanent patient records, enabling clinicians and cancer research scientists to maintain consistency in evaluating the efficacy of diagnosis and treatment. The CD-ROM packaged with each Manual contains printable copies of each of the book's 45 Staging Forms.

Mathematical Foundations of Computer Science 2014

Engineering Science

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

Computer Science - Theory and Applications

A welcome and much-needed addition to the literature on survey data quality in social research, *Nonsampling Error in Social Surveys*, by David E. McNabb, examines the most common sources of nonsampling error: frame error; measurement error; response error, nonresponse error, and interviewer error. Offering the only comprehensive and non-technical treatment available, the book's focus on controlling error shows readers how to eliminate the opportunity for error to occur, and features revealing examples of past and current efforts to control the incidence and effects of nonsampling error. Most importantly, it gives readers the

tools they need to understand, identify, address, and prevent the most prevalent and difficult-to-control types of survey errors.

International Journal of Health Services

This book is a simple yet thorough introduction to Q methodology, a research technique designed to capture the subjective or first-person viewpoints of its participants. Watts and Stenner outline the key theoretical concepts developed by William Stephenson, the founder of Q methodology, including subjectivity, concurrence theory and abduction. They then turn to the practicalities of delivering high quality Q methodological research. Using worked examples throughout, the reader is guided through: • important design issues • the conduct of fieldwork • all the analytic processes of Q methodology, including factor extraction, factor rotation and factor interpretation. Drawing on helpful conceptual introductions to potentially difficult statistical concepts and a step-by-step guide to running Q methodological analyses using dedicated software, this book enables interested readers to design, manage, analyse, interpret and publish their own Q methodological research.

The Art of Computer Programming, Volume 4A

This volume introduces the basic concepts of Exponential Random Graph Modeling (ERGM), gives examples of why it is used, and shows the reader how to conduct basic ERGM analyses in their own research. ERGM is a statistical approach to modeling social network structure that goes beyond the descriptive methods conventionally used in social network analysis. Although it was developed to handle the inherent non-independence of network data, the results of ERGM are interpreted in similar ways to logistic regression, making this a very useful method for examining social systems. Recent advances in statistical software have helped make ERGM accessible to social scientists, but a concise guide to using ERGM has been lacking. An Introduction to Exponential Random Graph Modeling, by Jenine K. Harris, fills that gap, by using examples from public health, and walking the reader through the process of ERGM model-building using R statistical software and the statnet package.

Mathematics for Computer Science

This book constitutes the refereed proceedings of the First International Workshop on Bayesian and Graphical Models for Biomedical Imaging, BAMBI 2014, held in Cambridge, MA, USA, in September 2014 as a satellite event of the 17th International Conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2014. The 11 revised full papers presented were carefully reviewed and selected from numerous submissions with a key aspect on probabilistic modeling applied to medical image analysis. The objectives of this workshop compared to other workshops, e.g. machine learning in medical imaging, have a stronger mathematical focus on the foundations of probabilistic modeling and inference. The papers highlight the potential of using Bayesian or random field graphical models for advancing scientific research in biomedical image analysis or for the advancement of modeling and analysis of medical imaging data.

An Introduction to the Sociology of Health and Illness

This two volume set LNCS 8634 and LNCS 8635 constitutes the refereed conference proceedings of the 39th International Symposium on Mathematical Foundations of Computer Science, MFCS 2014, held in Budapest, Hungary, in August 2014. The 95 revised full papers presented together with 6 invited talks were carefully selected from 270 submissions. The focus of the conference was on following topics: Logic, Semantics, Automata, Theory of Programming, Algorithms, Complexity, Parallel and Distributed Computing, Quantum Computing, Automata, Grammars and Formal Languages, Combinatorics on Words, Trees and Games.

EPA Publications Bibliography

Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer.

Doing Q Methodological Research

Brute facts are facts that don't have explanations. Such facts appear in our explanations, inform many people's views about the structure of the world, and are part of philosophical interpretations in metaphysics and the philosophy of science. Yet, despite the considerable literature on explanation, the question of bruteness has been left largely unexamined. The chapters in Brute Facts address this gap in academic thought by exploring the central considerations which surround this topic. How can we draw a distinction between facts that can reasonably be thought of as brute and facts for which further explanation is possible? Can we explain something and gain understanding by appealing to brute facts? Is naturalism inconsistent with the existence of (non-physical) brute facts? Can modal facts be brute facts? Are emergent facts brute? This volume brings together contributions by authors who offer different answers to these questions. In presenting a range of different viewpoints on these matters, Brute Facts engages with major debates in

contemporary philosophy concerning modality, naturalism, consciousness, reduction and explanation.

On China's Military Rise

This book constitutes the proceedings of the International Conference on the Integration of Artificial Intelligence (AI) and Operations Research (OR) Techniques in Constraint Programming, CPAIOR 2014, held in Cork, Ireland, in May 2014. The 33 papers presented in this volume were carefully reviewed and selected from 70 submissions. The papers focus on constraint programming and global constraints; scheduling modelling; encodings and SAT logistics; MIP; CSP and complexity; parallelism and search; and data mining and machine learning.

Current Index to Journals in Education

The second edition of The SAGE Handbook of Special Education provides a comprehensive overview of special education, offering a wide range of views on key issues from all over the world. The contributors bring together up-to-date theory, research and innovations in practice, with an emphasis on future directions for the role of special education in a global context of inclusion. This brand new edition features: " New chapters on families, interagency collaboration and issues of lifelong learning " The UN Convention on the Rights of Persons with Disabilities " Policy reform proposals " Equity and social justice in education " The impact of new thinking on assessment " Issues and developments in classification " The preparation and qualifications that teachers need The Handbook's breadth, clarity and academic rigour will make it essential reading for researchers and postgraduate students, and also for practitioners, teachers, school managers and administrators.

Orbital Mechanics for Engineering Students

Qualitative Research for the Social Sciences

Best Synthetic Methods: Organophosphorus (V) Chemistry provides systematic coverage of the most common classes of pentavalent organophosphorus compounds and reagents (including phosphonyl, phosphoryl, and organophosphates), and allows researchers an easy point of entry into this complex and economically important field. The book follows the Best Synthetic Methods format, containing practical methods, synthetic tips, and shortcuts. Where relevant, articles include toxicity data and historical context for the reactions. Typical analytical and spectroscopic data are also presented to enable scientists to identify key compound characteristics. The book is a valuable companion to research chemists in both academia and industry, summarizing the best practical methods (often originating in difficult-to-access, foreign-language primary literature) in one place. It is ideally suited for those working on industrial applications of these compounds, including insecticides, herbicides, flame retardants, and plasticizers. Includes a mixture of tried and tested, historical methods that are proven to work, alongside new methods to provide scientists with

a quick, time-saving resource of reliable methods Includes tips and tricks to get reactions to work; important information often missing from other sources Includes key analytical data for compounds, so scientists have one handy resource to select, perform, and analyze the best reaction

Islamic Finance

Ramp up the tension and keep your readers hooked! Inside you'll find everything you need to know to spice up your story, move your plot forward, and keep your readers turning pages. Expert thriller author and writing instructor James Scott Bell shows you how to craft scenes, create characters, and develop storylines that harness conflict and suspense to carry your story from the first word to the last. Learn from examples of successful novels and movies as you transform your work from ho-hum to high-tension. • Pack the beginning, middle, and end of your book with the right amount of conflict. • Tap into the suspenseful power of each character's inner conflict. • Build conflict into your story's point of view. • Balance subplots, flashbacks, and backstory to keep your story moving forward. • Maximize the tension in your characters' dialogue. • Amp up the suspense when you revise. Conflict & Suspense offers proven techniques that help you craft fiction your readers won't be able to put down.

An Introduction to Exponential Random Graph Modeling

Presents the latest research in Egyptology on the theme of Ancient Egypt in a Global World This selection of 23 papers from the 15th annual Current Research in Egyptology symposium addresses the interregional and interdisciplinary theme of 'Ancient Egypt in a Global World'. This theme works on a number of levels highlighting the current global nature of Egyptological research and it places ancient Egypt in the wider ancient world. The first section presents the results of recent excavations, including in the western Valley of the Kings and analysis of the structures, construction techniques, food production and consumption remains at Tell Timai (Thmuis) in the Delta. Part II focuses on the cross-cultural theme with papers including discussions on the presence in India of terracotta figurines from Roman Egypt; the ancient Egyptian influence of Aegean lion-headed divinities; Libyan influence in New Kingdom and Third Intermediate Period Egyptian administration and the identification of ancient Egyptian finds from the British countryside reported to the Portable Antiquities Scheme. The third part of the book includes current research undertaken across the world of Egyptology, including analysis of late Roman crocodile mummies through non-invasive radiographic imaging techniques and the study of infant jar-burials in ancient Egypt and Sudan to identify differences in regional socio-economic contexts and the interaction between people and local resources. The editors of this volume are all PhD candidates at University College and King's College London

Nonsampling Error in Social Surveys

Brute Facts

The New State of the Art in Information Security: Now Covers Cloud Computing, the Internet of Things, and Cyberwarfare Students and IT and security professionals have long relied on Security in Computing as the definitive guide to computer security attacks and countermeasures. Now, the authors have thoroughly updated this classic to reflect today's newest technologies, attacks, standards, and trends. Security in Computing, Fifth Edition, offers complete, timely coverage of all aspects of computer security, including users, software, devices, operating systems, networks, and data. Reflecting rapidly evolving attacks, countermeasures, and computing environments, this new edition introduces best practices for authenticating users, preventing malicious code execution, using encryption, protecting privacy, implementing firewalls, detecting intrusions, and more. More than two hundred end-of-chapter exercises help the student to solidify lessons learned in each chapter. Combining breadth, depth, and exceptional clarity, this comprehensive guide builds carefully from simple to complex topics, so you always understand all you need to know before you move forward. You'll start by mastering the field's basic terms, principles, and concepts. Next, you'll apply these basics in diverse situations and environments, learning to "think like an attacker" and identify exploitable weaknesses. Then you will switch to defense, selecting the best available solutions and countermeasures. Finally, you'll go beyond technology to understand crucial management issues in protecting infrastructure and data. New coverage includes A full chapter on securing cloud environments and managing their unique risks Extensive new coverage of security issues associated with user—web interaction New risks and techniques for safeguarding the Internet of Things A new primer on threats to privacy and how to guard it An assessment of computers and cyberwarfare—recent attacks and emerging risks Security flaws and risks associated with electronic voting systems

Bayesian and graphical Models for Biomedical Imaging

This introductory text presents basic principles of social science research through maps, graphs, and diagrams. The authors show how concept maps and mind maps can be used in quantitative, qualitative, and mixed methods research, using student-friendly examples and classroom-based activities. Integrating theory and practice, chapters show how to use these tools to plan research projects, "see" analysis strategies, and assist in the development and writing of research reports.

Sampling and Choosing Cases in Qualitative Research

Elements of Fiction Writing - Conflict and Suspense

Fundamentals of Nuclear Science and Engineering Second Edition

All qualitative researchers sample, yet methods of sampling and choosing cases have received relatively little attention compared to other qualitative methods. This innovative book critically evaluates widely used sampling strategies, identifying key theoretical assumptions and considering how empirical and

theoretical claims are made from these diverse methods. Nick Emmel presents a groundbreaking reworking of sampling and choosing cases in qualitative research. Drawing on international case studies from across the social sciences he shows how ideas drive choices, how cases are used to work out the relation between ideas and evidence, and why it is not the size of a sample that matters, it is how cases are used to interpret and explain that counts. Fresh, dynamic and timely, this book is essential reading for researchers and postgraduate students engaging with sampling and realism in qualitative research.

Best Synthetic Methods

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. As the only peer-reviewed scholarly publication that combines authors' voices without regard for the political affiliations perspectives, or research methodologies, IJER provides readers with a balanced view of all sides of the political and educational mainstream. To this end, IJER includes, but is not limited to, inquiry based and opinion pieces on developments in such areas as policy, administration, curriculum, instruction, law, and research. IJER should thus be of interest to professional educators with decision-making roles and policymakers at all levels turn since it provides a broad-based conversation between and among policymakers, practitioners, and academicians about reform goals, objectives, and methods for success throughout the world. Readers can call on IJER to learn from an international group of reform implementers by discovering what they can do that has actually worked. IJER can also help readers to understand the pitfalls of current reforms in order to avoid making similar mistakes. Finally, it is the mission of IJER to help readers to learn about key issues in school reform from movers and shakers who help to study and shape the power base directing educational reform in the U.S. and the world.

Educating for Hope in Troubled Times

Since the 21st century, China's rise has become a fact, and People's Liberation Army has developed rather quickly. Thusso-called China's military rise has become the most challenging phenomenon in world politics.Regarding to its army building and readiness, many studies have shown that the People's Liberation Army, in 2020, will form a complete (antiaccess/area denial) capabilities, capable enough to turn China into a great military power in Asia-Pacific.It will have an impact on the Asia-Pacific regional stability, the cross-strait military balance, and under United States re-balance strategy. Under China's military threat, Taiwan must be innovative in terms of strategic thinking and concept.

Foundations of Data Science

The main purpose of this book is to demonstrate that disease is socially produced and distributed. Becoming sick and unhealthy is not the result of individual misfortune or an accident of nature. It is a consequence of the social, political and economic organization of society. In developing this thesis, the author

systematically introduces students to the major sociological explanations of the role and functions of medical explanations of disease. The book situates the student securely in the literature and provides a guide to the strengths and weaknesses of the major sociological approaches. It draws out the essential features of the major sociological contributions and elucidates how an appreciation of the dynamics of class, gender, ethnicity and the sociology of knowledge challenges medical power.

Self-Reported Population Health: An International Perspective based on EQ-5D

Eyewitnesses play an important role in criminal cases when they can identify culprits. Estimates suggest that tens of thousands of eyewitnesses make identifications in criminal investigations each year. Research on factors that affect the accuracy of eyewitness identification procedures has given us an increasingly clear picture of how identifications are made, and more importantly, an improved understanding of the principled limits on vision and memory that can lead to failure of identification. Factors such as viewing conditions, duress, elevated emotions, and biases influence the visual perception experience. Perceptual experiences are stored by a system of memory that is highly malleable and continuously evolving, neither retaining nor divulging content in an informational vacuum. As such, the fidelity of our memories to actual events may be compromised by many factors at all stages of processing, from encoding to storage and retrieval. Unknown to the individual, memories are forgotten, reconstructed, updated, and distorted. Complicating the process further, policies governing law enforcement procedures for conducting and recording identifications are not standard, and policies and practices to address the issue of misidentification vary widely. These limitations can produce mistaken identifications with significant consequences. What can we do to make certain that eyewitness identification convicts the guilty and exonerates the innocent? Identifying the Culprit makes the case that better data collection and research on eyewitness identification, new law enforcement training protocols, standardized procedures for administering line-ups, and improvements in the handling of eyewitness identification in court can increase the chances that accurate identifications are made. This report explains the science that has emerged during the past 30 years on eyewitness identifications and identifies best practices in eyewitness procedures for the law enforcement community and in the presentation of eyewitness evidence in the courtroom. In order to continue the advancement of eyewitness identification research, the report recommends a focused research agenda. Identifying the Culprit will be an essential resource to assist the law enforcement and legal communities as they seek to understand the value and the limitations of eyewitness identification and make improvements to procedures.

Mining of Massive Datasets

This book constitutes the proceedings of the 9th International Computer Science Symposium in Russia, CSR 2014, held in Moscow, Russia, in June 2014. The 27 full papers presented in this volume were carefully reviewed and selected from 76 submissions. In addition the book contains 4 invited lectures. The scope of the

proposed topics is quite broad and covers a wide range of areas in theoretical computer science and its applications.

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