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Better Outcomes, Brighter Futures - 2014

Information-theoretic causal inference of lexical flow - Johannes Dellert
2019

This volume seeks to infer large phylogenetic networks from phonetically encoded lexical data and contribute in this way to the historical study of language varieties. The technical step that enables progress in this case is the use of causal inference algorithms. Sample sets of words from language varieties are preprocessed into automatically inferred cognate sets, and then modeled as information-theoretic variables based on an intuitive measure of cognate overlap. Causal inference is then applied to these variables in order to determine the existence and direction of influence among the varieties. The directed arcs in the resulting graph structures can be interpreted as reflecting the existence and directionality of lexical flow, a unified model which subsumes inheritance and borrowing as the two main ways of transmission that shape the basic lexicon of languages. A flow-based separation criterion and domain-specific directionality detection criteria are developed to make existing causal inference algorithms more robust against imperfect cognacy data, giving rise to two new algorithms. The Phylogenetic Lexical Flow Inference (PLFI) algorithm requires lexical features of proto-languages to be reconstructed in advance, but yields fully general phylogenetic

networks, whereas the more complex Contact Lexical Flow Inference (CLFI) algorithm treats proto-languages as hidden common causes, and only returns hypotheses of historical contact situations between attested languages. The algorithms are evaluated both against a large lexical database of Northern Eurasia spanning many language families, and against simulated data generated by a new model of language contact that builds on the opening and closing of directional contact channels as primary evolutionary events. The algorithms are found to infer the existence of contacts very reliably, whereas the inference of directionality remains difficult. This currently limits the new algorithms to a role as exploratory tools for quickly detecting salient patterns in large lexical datasets, but it should soon be possible for the framework to be enhanced e.g. by confidence values for each directionality decision.

Development and Modern Industrial Policy in Practice - Jesus Felipe
2015-04-24

Development and Modern Industrial Policy in Practice provides an up-to-date analysis of industrial policy. Modern industrial policy refers to the set of actions and strategies used to favor the more dynamic sectors of the economy. A key aspect of moder

Understanding Consumers of Food Products - Lynn Frewer 2006-12-22

In order for food businesses, scientists and policy makers to develop successful products, services and policies, it is essential that they

understand food consumers and how they decide which products to buy. Food consumer behaviour is the result of various factors, including the motivations of different consumers, the attributes of specific foods, and the environment in which food choices occur. Recognising diversity between individual consumers, different stages of life, and different cultural contexts is increasingly important as markets become increasingly diverse and international. The book begins with a comprehensive introduction and analysis of the key drivers of consumer food choices, such as the environment and sensory product features. Part two examines the role of consumers' attitudes towards quality and marketing, and their views on food preparation and technology. Part three covers cultural and individual differences in food choice as well as addressing potentially influential factors such as age and gender. Important topics such as public health and methods to change consumers' preferences for unhealthy foods are discussed in part four. The final section concludes with advice on developing coherent safety policies and the consumers' responsibility for food production and consumption. Understanding consumers of food products is a standard reference for all those in the food industry concerned with product development and regulation. Develop an understanding of buyer behaviour to assist developing successful products Recognise the diversity between consumers and learn how to cater for their needs Covers cultural and individual differences in food choice

Defence Terminology - R. Geoffrey Lee 1991

The defence world is a minefield of abbreviations and acronyms. Servicemen soon realize that they must master them, either in tactical situations or in the daily round of staff work, and a larger problem occurs when the area of military technology is entered. Servicemen, civil servants and businessmen all need to be up-to-date with the current jargon if they are to understand their work.

The Exoplanet Handbook - Michael Perryman 2018-08-30

A complete and in-depth review of exoplanet research, covering the discovery methods, physics and theoretical background.

Mathematical Modelling of Dynamic Biological Systems - Ludwik

Finkelstein 1985-05-08

This volume introduces readers to the methodology of dynamic systems analysis, using mathematical modelling techniques as an aid to understanding biological phenomena. It creates an ability to appreciate current medical and biological literature, in which mathematical models are being used with increasing frequency, and provides an introduction to the more advanced techniques of systems science. Mathematical concepts are illustrated by reference to frequent biological examples. By the use of case studies drawn from physiology, the various levels of mathematical modelling which can be adopted are presented.

An Exhibit of Fine Bonsai 2013 - Boon Manakitivipart 2013-10-15

The 2013 Bay Island Bonsai's show book contains over 80 photographs of fine bonsai and accent plants reflect the January show. The 10x8 inch book is available in a hard back with dust jacket, and contains 92 color pages.

Google Hacking for Penetration Testers - Johnny Long 2011-04-18

This book helps people find sensitive information on the Web. Google is one of the 5 most popular sites on the internet with more than 380 million unique users per month (Nielsen/NetRatings 8/05). But, Google's search capabilities are so powerful, they sometimes discover content that no one ever intended to be publicly available on the Web including: social security numbers, credit card numbers, trade secrets, and federally classified documents. Google Hacking for Penetration Testers Volume 2 shows the art of manipulating Google used by security professionals and system administrators to find this sensitive information and "self-police" their own organizations. Readers will learn how Google Maps and Google Earth provide pinpoint military accuracy, see how bad guys can manipulate Google to create super worms, and see how they can "mash up" Google with MySpace, LinkedIn, and more for passive reconnaissance.

- Learn Google Searching Basics Explore Google's Web-based Interface, build Google queries, and work with Google URLs.
- Use Advanced Operators to Perform Advanced Queries Combine advanced operators and learn about colliding operators and bad search-fu.
- Learn the Ways of the Google Hacker See how to use caches for anonymity and review

directory listings and traversal techniques. • Review Document Grinding and Database Digging See the ways to use Google to locate documents and then search within the documents to locate information. • Understand Google's Part in an Information Collection Framework Learn the principles of automating searches and the applications of data mining. • Locate Exploits and Finding Targets Locate exploit code and then vulnerable targets. • See Ten Simple Security Searches Learn a few searches that give good results just about every time and are good for a security assessment. • Track Down Web Servers Locate and profile web servers, login portals, network hardware and utilities. • See How Bad Guys Troll for Data Find ways to search for usernames, passwords, credit card numbers, social security numbers, and other juicy information. • Hack Google Services Learn more about the AJAX Search API, Calendar, Blogger, Blog Search, and more.

Automatic Control - Benjamin C. Kuo 1995-01-15

This best-selling introduction to automatic control systems has been updated to reflect the increasing use of computer-aided learning and design, and revised to feature a more accessible approach — without sacrificing depth.

Handbook of Literacy in Akshara Orthography - R. Malatesha Joshi 2019-06-11

This volume examines the unique characteristics of akshara orthography and how they may affect literacy development and problems along with the implications for assessment and instruction. Even though akshara orthography is used by more than a billion people, there is an urgent need for a systematic attempt to bring the features, research findings, and future directions of akshara together in a coherent volume. We hope that this volume will bridge that gap. Akshara is used in several Indic languages, each calling it by a slightly different name, for example 'aksharamu', in Telugu, 'akshara' in Kannada, and 'akshar' in Hindi. It is the Bhrami-derived orthography used across much of the Indian subcontinent. There is a growing body of research on the psycholinguistic underpinnings of learning to read akshara, and the emerging perspective is that akshara, even though classified as

alphasyllabaries, abugida, and semi-syllabic writing systems, is neither alphabetic nor syllabic. Rather, akshara orthography is unique and deserves to be a separate classification and needs further investigation relating to literacy acquisition in akshara. The chapters in this volume, written by leading authors in the field, will inform the reader of the current research on akshara in a coherent and systematic way.

Understanding Innovation Through Exaptation - Caterina AM La Porta 2020-07-09

This book explores the role of exaptation in diverse areas of life, with examples ranging from biology to economics, social sciences and architecture. The concept of exaptation, introduced in evolutionary biology by Gould and Vrba in 1982, describes the possibility that already existing traits can be exploited for new purposes throughout the evolutionary process. Edited by three active scholars in the fields of biology, physics and economics, the book presents an interdisciplinary collection of expert viewpoints illustrating the importance of exaptation for interpreting current reality in various fields of investigation. Using the lenses of exaptation, the contributing authors show how to view the overall macroscopic landscape as comprising many disciplines, all working in unity within a single complex system. This book is the first to discuss exaptation in both hard and soft disciplines and highlights the role of this concept in understanding the birth of innovation by identifying key elements and ideas. It also offers a comprehensive guide to the emerging interdisciplinary field of exaptation, provides didactic explanations of the basic concepts, and avoids excessive jargon and heavy formalism. Its target audience includes graduate students in physics, biology, mathematics, economics, psychology and architecture; it will also appeal to established researchers in the humanities who wish to explore or enter this new science-driven interdisciplinary field.

New Headway: Pre-Intermediate Fourth Edition: Student's Book - John Soars 2012-03-15

Manual of Oculoplastic Surgery - Mark R. Levine 2018-06-26
For the last two decades, this best-selling, step-by-step guide to

oculoplastic surgery has been highly respected and widely used by ophthalmologists, oculofacial plastic fellows, residents, ENT-facial plastic surgeons, and general plastic surgeons. The revised and updated fifth edition of Manual of Oculoplastic Surgery is designed to guide the physician in exploring and completing a variety of ocular plastic procedures in a comprehensive and logical step-by-step sequence. It features new authors. Sections include: Trauma, Lacrimal Surgery, Cosmetic, Congenital Ptosis, Acquired Ptosis, Eyelid Malposition, Facial Nerve Dysfunction, Eyelid Flaps, Orbital Surgery, and Therapeutic Considerations. Each procedure in this must-have resource includes a review of the surgical anatomy, step-by-step instructions, plus the book is complete with more than one hundred color illustrations and dozens of surgical videos for further education.

The "bolometer" - Samuel Pierpont Langley 1881

Moody's Manual of Investments: American and Foreign - 1940

Coaching for Performance - John Whitmore 1993-09-01

Clear, concise, hands-on, and reader friendly, this is a coaching guide written in a coaching style.

Assessor's Guidebook for Quality Assurance in District Hospitals 2013 - 2013

Unorthodox Chess Openings - Eric Schiller 1998

Handbook of Psychology and Diabetes - Clare Bradley 1994

This Handbook fulfils a pressing need within the area of psychological measurement in diabetes research and practice by providing access to material which has either been widely dispersed through the psychological and medical literature or has not previously been published. Journal articles describing the psychometric development of scales have rarely included the scales themselves but this book includes copies of scales and a wealth of additional information from unpublished theses, reports and recent manuscripts. You will find information about

the reliability, validity, scoring, norms, and use of the measures in previous research presented in one volume. The Handbook is designed to help researchers and clinicians: - To select scales suitable for their purposes - To administer and score the scales correctly - To interpret the results appropriately. Dr. Clare Bradley is Reader in Health Psychology and Director of the Diabetes Research Group at Royal Holloway, University of London. Dr. Bradley and her research group have designed, developed and used a wide variety of measures of psychological processes and outcomes. Many of these measures have been designed and developed specifically for people with diabetes. Together with diabetes-specific psychological measures developed by other researchers internationally, these instruments have played an important part in facilitating patient-centred approaches to diabetes research and clinical practice.

Marine Artillery Survey Operations - U. S. Corps 2013-06-27

Marine Corps Warfighting Publication (MCWP) 3-16.7, Marine Artillery Survey Operations, sets forth the doctrinal foundation and technical information that Marines need to provide accurate and timely survey support.

The Statesman's Year-book - 1925

A Beginner's Guide to Mathematical Logic - Raymond M. Smullyan 2014-03-19

Combining stories of great writers and philosophers with quotations and riddles, this completely original text for first courses in mathematical logic examines problems related to proofs, propositional logic and first-order logic, undecidability, and other topics. 2013 edition.

An Introduction to Formal Languages and Automata - Peter Linz 1997

An Introduction to Formal Languages & Automata provides an excellent presentation of the material that is essential to an introductory theory of computation course. The text was designed to familiarize students with the foundations & principles of computer science & to strengthen the students' ability to carry out formal & rigorous mathematical argument.

Employing a problem-solving approach, the text provides students insight into the course material by stressing intuitive motivation & illustration of ideas through straightforward explanations & solid mathematical proofs. By emphasizing learning through problem solving, students learn the material primarily through problem-type illustrative examples that show the motivation behind the concepts, as well as their connection to the theorems & definitions.

Macro, Micro, and Nano-Biosensors - Mahendra Rai 2022-01-06

This book includes an international group of researchers who present the latest achievements in the field of enzyme, immune system, and microbial and nano-biosensors. It highlights the experimental evidence for formation of biological fuel cells (BFCs)-which has a dual purpose - as a device that produces electricity and the systems which produce it simultaneously cleaning up the environment from polluting organic compounds. Considering the work in the field of macro, micro and nano-biosensors, considerable attention is paid to the use of nanomaterials for the modification of working electrodes. Nanomaterials in some cases can significantly improve the parameters of analytical systems. Readers will be interested in the projection of the presented theoretical and experimental materials in the field of practical application of modern analytical developments. The presented results in many cases imply the possibility of using the created models of macro, micro and nano-biosensors, and biofuel elements in the field of health, and protection/restoration of the environment. It includes information about all existing types of transducers of signals in biosensors - electrochemical, optical and quantum-optics, thermoelectric, data of atomic force microscopy, piezoelectric, and more. On the basis of these principles, descriptions are given about the functioning of macro, micro and nano- biosensors for the detection of compounds used in medicine, detection of compounds that clog the environment, and thus affect human health, for compounds that are potentially the basis for the production of drugs, for the selection of compounds that have medicinal activity, for immunodetection, and to assess the quality of food. These questions form the basis of research carried out in the field of biosensors

in the world. Since the described models of biosensors have high sensitivity, high measurement speed and selectivity, the described results attract the attention of both the ordinary reader and business class specialists who create and implement analytical technologies. This book is very useful for researchers in life sciences, chemical sciences, physics, and engineering. In addition, it will be useful for the persons working in industry. Advanced technologies specialists will be attracted by the novelty of the proposed solutions and their relevance and ease of implementation. Since the studies contain sections describing the parameters of different biosensors, BFCs, they are easily navigated into assessing the effectiveness of the practical use of the proposed device. The relevant sections indicate such characteristics as detection ranges, life span, type of biological material used, the method of formation of the bio-receptor part. These parameters are of interest to both developers of new models of biosensors and BFC, and their manufacturers.

Renewable Energy - Mansour Al Qubeissi 2020-09-09

The demand for secure, affordable and clean energy is a priority call to humanity. Challenges associated with conventional energy resources, such as depletion of fossil fuels, high costs and associated greenhouse gas emissions, have stimulated interests in renewable energy resources. For instance, there have been clear gaps and rushed thoughts about replacing fossil-fuel driven engines with electric vehicles without long-term plans for energy security and recycling approaches. This book aims to provide a clear vision to scientists, industrialists and policy makers on renewable energy resources, predicted challenges and emerging applications. It can be used to help produce new technologies for sustainable, connected and harvested energy. A clear response to economic growth and clean environment demands is also illustrated.

Innovation in Information Systems and Technologies to Support Learning Research - Mohammed Serrhini 2019-11-30

This book provides glimpses into contemporary research in information systems & technology, learning, artificial intelligence (AI), machine learning, and security and how it applies to the real world, but the ideas presented also span the domains of telehealth, computer vision, the role

and use of mobile devices, brain-computer interfaces, virtual reality, language and image processing and big data analytics and applications. Great research arises from asking pertinent research questions. This book reveals some of the authors' "beautiful questions" and how they develop the subsequent "what if" and "how" questions, offering readers food for thought and whetting their appetite for further research by the same authors.

Manual of Home Health Nursing Procedures - Robyn Rice 2000
CD-ROM contains full text for all the procedures available in the manual. Files are provided both as fully formatted Word 6.0 (.doc) documents and as text-only documents (.txt).

Preschool Education Programs for Children with Autism - Jan S. Handleman 2008

Since the first two additions of Preschool Education Programs (1994, 2001), more exciting advances, particularly the Applied Behavior Analysis (ABA), have arisen to benefit the special education of youngsters in school. Contributing to this 12-chapter edition are 11 scholar programs (Alpine Learning Center; ASCENT; Autism Center at the University of Washington; CABAS Program; Children's Unit at SUNY Binghamton; Douglass Developmental Disabilities Center; Groden Center; LEAP Program; Summit Academy Sussex Consortium; and Valley Program), answering a common set of questions concerning the treatment of very young children with Autism Spectrum Disorders, using a range of ABA technology. This book addresses educational settings including public, private and university-based programs in America. It is an especially valuable resource for parents, professionals and administrators who are in the process of developing programs for the preschool student. Topics discussed include: * Addressing problem behaviors, social skills, and play * Teaching speech and language through verbal behavior framework, visual supports, sign language, and other augmentative/naturalistic methods * Measuring outcomes of students * Conducting transition to school age programs * Determining a child's eligibility for admission and the diagnostic materials used

Industrial Biotransformations - Andreas Liese 2008-07-11

Industrial Biotransformations - a user-friendly and application-oriented up-to-date overview of one-step biotransformations of industrial importance. The data conferring each process is arranged in a convenient format to survey so that the processes can easily be compared. Each set of data is accompanied by key literature citations. As far as flow sheets of the processes are available, these are given reduced to their significant elements. An extensive index classified by substrates, products, enzymes, and companies provides direct access to each process organized in the order of enzyme classes. The reader will find all significant parameters characterizing the biotransformation itself and the process.

Maximum Boost - Corky Bell 1997-08-10

Whether you're interested in better performance on the road or extra horsepower to be a winner on the track, this book gives you the knowledge you need to get the most out of your engine and its turbocharger system. Find out what works and what doesn't, which turbo is right for your needs, and what type of set-up will give you that extra boost. Bell shows you how to select and install the right turbo, how to prep your engine, test the systems, and integrate a turbo with EFI or carbureted engine.

Metal Recycling - 2015-01-14

Metal recycling is a complex business that is becoming increasingly difficult! Recycling started long ago, when people realized that it was more resource- and cost-efficient than just throwing away the resources and starting all over again. In this report, we discuss how to increase metal-recycling rates and thus resource efficiency from both quantity and quality viewpoints. The discussion is based on data about recycling input, and the technological infrastructure and worldwide economic realities of recycling. Decision-makers set increasingly ambitious targets for recycling, but far too much valuable metal today is lost because of the imperfect collection of end-of-life (EoL) products, improper practices, or structural deficiencies within the recycling chain, which hinder achieving our goals of high resource efficiency and resource security, and of better recycling rates.

Well Dressed? - Julian M. Allwood 2006

Researchers have laid out a set of proposals outlining how consumers could satisfy their needs for clothes and textiles with significantly reduced impact on the environment, while also offering new business opportunities to UK companies. This book looks at these proposals.

Biotransformations - K. Faber 2003-06-30

Whereas the hydrolases such as proteases, esterases and lipases are sufficiently well researched to be applied in every standard laboratory, other types of enzymes are still waiting to be discovered with respect to their applicability in organic-chemistry transformations on a preparative scale. This latter point is stressed here, with the focus on the newcomers'enzymes'which show great synthetic potential.

Integral Meditation - Ken Wilber 2016-03-15

Prepare to encounter your mind in a radically new way as Ken Wilber introduces Integral Mindfulness, a meditative approach based on Integral Theory and Practice. This leading-edge technique combines, for the first time in history, the ancient paths of meditation and mindfulness—or Waking Up—with modern research into psychological development and human evolution—Growing Up—resulting in a complete and powerfully effective method of personal transformation. Integral Meditation focuses attention on the inner "maps" we use to navigate life—in relationships, at work and study, in play, in just about everything we do. Mindfulness is used to unearth these unconscious maps, then uproot them so that we can substitute happier and healthier perspectives. With experiential exercises, guided meditation instructions, and tools to identify the individual's own greatest potential, this book points the way to realizing our Supreme Identity—and to finding the reason why each of us has come into being: to embody and express in the world our unique perspective of Spirit.

Intelligent Transportation Systems for Electric Vehicles - João Carlos Amaro Ferreira 2020-09-18

The Special Issue of Energies on the subject area of "Intelligent Transportation Systems (ITS) for Electric Vehicles (EV)", covers new work on EV and associated topics like charging process, smart grids,

emerging ITS for EV and applications for electromoV market penetration with an increase of 60% per year, associated challenges of the charging process and system and changes in the energy market and grid. EV is associated with sustainability and the EU has committed to reducing CO2 emissions by 37.5 percent by 2030. The charging process and open energy market with renewable energy create interesting research problems where IoT and intelligent systems play an essential role in the flexibility of the EV charging process and the EV operation.bility.

Considering EV market penetration with an increase of 60% per year, associated challenges of charging process and system and the change on the Energy market and Grid. EV is associated with sustainability with the commit of EU in, aiming to reduce CO2 emissions by 37.5 percent from 2021 to 2030. Charging process and open energy market with renewable energy creates interesting research problems where IoT and Intelligent System plays an essential role in the flexibility of the EV charging process and the EV operation.

Stirling Engine Design Manual - William Martini 2013-01-25

For Stirling engines to enjoy widespread application and acceptance, not only must the fundamental operation of such engines be widely understood, but the requisite analytic tools for the stimulation, design, evaluation and optimization of Stirling engine hardware must be readily available. The purpose of this design manual is to provide an introduction to Stirling cycle heat engines, to organize and identify the available Stirling engine literature, and to identify, organize, evaluate and, in so far as possible, compare non-proprietary Stirling engine design methodologies. This report was originally prepared for the National Aeronautics and Space Administration and the U. S. Department of Energy.

Pediatric Head and Neck Tumors - Reza Rahbar 2013-12-02

The pediatric head and neck cancer patient necessitates a multidisciplinary team of specialists to provide an optimal continuum of care. This A-Z guide provides practical, in-depth information for all medical professionals involved in the evaluation and treatment of these patients. Written in an easy to follow format, each entry contains

illustrative figures to aid in pathological and radiographical diagnosis, as well as structured discussion of evaluation and multimodality management. The alphabetical layout eliminates redundancy and allows the busy physician to quickly locate relevant information. Pediatric Head and Neck Tumors is ideal for young physicians as well as attending physicians seeking to expand their knowledgebase to the various subspecialties involved in the multidisciplinary care of their patients.

UNESCO Guidelines for Assessing Learning Facilities in the Context of Disaster Risk Reduction and Climate Change Adaptation - Torres, Jair
2019-10-17

Coal Geology - Larry Thomas 2020-07-13

A global exploration of coal geology, from production and use to chemical properties and coal petrology Coal Geology, 3rd Edition, offers

a revised and updated edition of this popular book which provides a comprehensive overview of the field of coal geology including coal geophysics, hydrogeology and mining. Also covered in this volume are fully revised coverage of resource and reserve definitions, equipment and recording techniques together with the use of coal as an alternative energy source as well as environmental implications. This third edition provides a textbook ideally suited to anyone studying, researching or working in the field of coal geology, geotechnical engineering and environmental science. Fills the gap between academic aspects of coal geology and the practical role of geology in the coal industry Examines sedimentological and stratigraphical geology, together with mining, geophysics, hydrogeology, environmental issues and coal marketing Defines global coal resource classifications and methods of calculation Addresses the alternative uses of coal as a source of energy Covers a global approach to coal producers and consumers