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Global Report on Psoriasis

Atlas of Chick Development

The Handbook of Plant Metabolomics

Arts & Humanities Citation Index

The Science of Science

String Processing and Information Retrieval

Linked

Real-time PCR

Plant signaling: Understanding the molecular crosstalk

Computer Vision - ECCV 2020

Databases, Information Systems, and Peer-to-Peer Computing

Networks and Netwars

50th IMO - 50 Years of International Mathematical Olympiads

Concise Encyclopedia of Coding Theory

Solid State Nuclear Track Detection

Chaukhandi Tombs in Pakistan

International Books in Print

Dietary Supplements for the Health and Quality of Cultured Fish

The Defining Moments in Bengal

Comparative Genomics

Class 3.2 Hydrolases VII

The Personal Web

Seminal Contributions to Information Systems Engineering

Computational Methods and Data Engineering

Problem Frames

Burning Bright
The Science Quest
Collaborative Knowledge Creation
The Other Kashmir
Dynamical Systems on Networks
Network Science
Transforming legal aid
A Survey of Statistical Network Models
Sustainability of Urban Freight Transport
Camera Networks
ICDSMLA 2020
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Adsorbents Springer Nature

This book presents perspectives on the knowledge creation metaphor of learning, and elaborates the triological approach to learning. The knowledge creation metaphor differs from both the acquisition and the participation metaphors. In a nutshell triological approaches seek to engage learners in joint work with shared objects and artefacts mediated by collaboration technology. The theoretical underpinnings stem from different origins, including Bereiter and Scardamalia's theory on knowledge building and Engeström's activity theory. The authors

in this collection introduce key concepts and techniques, explain tools designed and developed to support knowledge creation, and report results from case studies in specific contexts. The book chapters integrate theoretical, methodological, empirical and technological research, to elaborate the empirical findings and to explain the design of the knowledge creation tools. The target audiences for this book are researchers, teachers and Human Resource developers interested in new perspectives on collaborative learning, technology-mediated knowledge creation, and applications of this in their own settings, for higher education, teacher training and workplace learning. The book is the result of joint efforts from many contributors who took part in the Knowledge-practices Laboratory (KP-Lab) project (2006-2011) supported by EU FP6.

Global Report on Psoriasis Garland Science

Deals with the historical, cultural, geopolitical, strategic, socio-economic and political perspectives on the entire Karakoram-Himalayan region. The book is based on papers contributed by area specialists and experts from the region - Gilgit-Baltistan, Mirpur-Muzaffarabad and Indian State of Jammu and Kashmir - and academics and strategic analysts.

Atlas of Chick Development Now Publishers Inc

The Springer Handbook of Enzymes provides concise data on some 5,000 enzymes sufficiently well characterized - and here is the second, updated edition. Their application in analytical, synthetic and biotechnology processes as well as in food industry, and for medicinal treatments is added. Data sheets are arranged in their EC-Number sequence. The new edition reflects considerable progress in enzymology: the total material has more than doubled, and the complete 2nd edition consists of 39 volumes plus Synonym Index. Starting in 2009, all newly classified enzymes are treated in Supplement Volumes.

The Handbook of Plant Metabolomics Springer Science & Business Media

A multidisciplinary index covering the journal literature of the arts and humanities. It fully covers 1,144 of the world's leading arts and humanities journals, and it indexes individually selected, relevant items from over 6,800 major science and social science journals.

Arts & Humanities Citation Index Springer

Most coding theory experts date the origin of the subject with the 1948 publication of A Mathematical Theory of Communication by Claude Shannon. Since then, coding theory has grown into a

discipline with many practical applications (antennas, networks, memories), requiring various mathematical techniques, from commutative algebra, to semi-definite programming, to algebraic geometry. Most topics covered in the Concise Encyclopedia of Coding Theory are presented in short sections at an introductory level and progress from basic to advanced level, with definitions, examples, and many references. The book is divided into three parts: Part I fundamentals: cyclic codes, skew cyclic codes, quasi-cyclic codes, self-dual codes, codes and designs, codes over rings, convolutional codes, performance bounds Part II families: AG codes, group algebra codes, few-weight codes, Boolean function codes, codes over graphs Part III applications: alternative metrics, algorithmic techniques, interpolation decoding, pseudo-random sequences, lattices, quantum coding, space-time codes, network coding, distributed storage, secret-sharing, and code-based-cryptography. Features Suitable for students and researchers in a wide range of mathematical disciplines Contains many examples and references Most topics take the reader to the frontiers of research

The Science of Science Rand Corporation

This book grew out of the First Symposium on the Personal Web, co-located with CASCON 2010 in Markham, Ontario, Canada. The purpose of the symposium was to bring together prominent researchers and practitioners from a diverse range of research areas relevant to the advancement of science and practice relating to the Personal Web. Research on the Personal Web is an outgrowth of the Smart Internet initiative, which seeks to extend and transform the web to be centred on the user, with the web as a calm platform ubiquitously providing cognitive support to its

user and his or her tasks. As with the preceding SITCON workshop (held at CASCON 2009), this symposium involved a multi-disciplinary effort that brought together researchers and practitioners in data integration; web services modelling and architecture; human-computer interaction; predictive analytics; cloud infrastructure; semantics and ontology; and industrial application domains such as health care and finance. The discussions during the symposium dealt with different aspects of the architecture and functionality needed to make the Personal Web a reality. After the symposium the authors reworked their presentations into draft chapters that were submitted for peer evaluation and review. Every chapter went through two rounds of reviewing by at least two independent expert reviewers, and accepted chapters were then revised and are presented in this book.

String Processing and Information Retrieval Springer

In 2013, the International Conference on Advance Information Systems Engineering (CAiSE) turns 25. Initially launched in 1989, for all these years the conference has provided a broad forum for researchers working in the area of Information Systems Engineering. To reflect on the work done so far and to examine prospects for future work, the CAiSE Steering Committee decided to present a selection of seminal papers published for the conference during these years and to ask their authors, all prominent researchers in the field, to comment on their work and how it has developed over the years. The scope of the papers selected covers a broad range of topics related to modeling and designing information systems, collecting and managing requirements, and with special attention to how information

systems are engineered towards their final development and deployment as software components. With this approach, the book provides not only a historical analysis on how information systems engineering evolved over the years, but also a fascinating social network analysis of the research community. Additionally, many inspiring ideas for future research and new perspectives in this area are sparked by the intriguing comments of the renowned authors.

Linked Basic Books

The Science Quest introduces the Inquiry/Discovery instructional framework, an innovative method for captivating students' interest in science, for building their skills in scientific thinking, and for dramatically enriching their understanding of scientific content and concepts. For teachers curious how to implement ?inquiry? learning as called for in the National Science Education Standards, this book provides detailed and practical guidance. It shows teachers how to transform ordinary lessons in ways that 1) encourage students to take initiative in posing scientific ?inquiry? questions; and 2) enable students to independently ?discover? answers to their questions by engaging in investigative practices and critically evaluating the findings. Inquiry/Discovery practices can be introduced in stages, starting with simple activities and gradually increasing the levels of challenge. The Science Quest includes everything a teacher needs to bring successful instruction, including: Extensive lesson planning and assessment tools Suggestions on working with students in teams Scores of sample lessons from varied disciplines

Real-time PCR Springer Nature

Plant signalling has emerged as an integrated field which has

become indispensable in recent times to study any biological process. Over the last decade, an enormous amount of information has been generated in this field and the advances in information technology gave birth to bioinformatics which has helped greatly in managing the galaxy of information. It is now possible to view the different information's in a systems biology approach which has unravelled the association/ new processes and thus helped us enormously in understanding of the biological processes. The present book is an attempt at understanding the plant signalling processes with different perspectives. Even though the plants are sessile but there exists a tremendous interconnected network of perception at morphological, physiological and molecular levels. The impact of the surrounding environment in terms of abiotic and biotic stresses is significant in terms of its survival, adaptation and productivity for the human welfare. The plants possess a wide array of processes at the organ, tissue and cellular levels which are governed by a plethora of molecules. The molecules govern individual processes and these exists a cross talk between them to form a complex network of processes. The book tries to envision how different processes are operating at different points in the life cycle of the plant.

Plant signaling: Understanding the molecular crosstalk
CABI

This book gathers selected high-impact articles from the 2nd International Conference on Data Science, Machine Learning & Applications 2020. It highlights the latest developments in the areas of artificial intelligence, machine learning, soft computing, human-computer interaction and various data science and

machine learning applications. It brings together scientists and researchers from different universities and industries around the world to showcase a broad range of perspectives, practices and technical expertise.

Computer Vision – ECCV 2020 Cambridge University Press
Networks are ubiquitous in science and have become a focal point for discussion in everyday life. Formal statistical models for the analysis of network data have emerged as a major topic of interest in diverse areas of study, and most of these involve a form of graphical representation. Probability models on graphs date back to 1959. Along with empirical studies in social psychology and sociology from the 1960s, these early works generated an active network community and a substantial literature in the 1970s. This effort moved into the statistical literature in the late 1970s and 1980s, and the past decade has seen a burgeoning network literature in statistical physics and computer science. The growth of the World Wide Web and the emergence of online networking communities such as Facebook, MySpace, and LinkedIn, and a host of more specialized professional network communities has intensified interest in the study of networks and network data. Our goal in this review is to provide the reader with an entry point to this burgeoning literature. We begin with an overview of the historical development of statistical network modeling and then we introduce a number of examples that have been studied in the network literature. Our subsequent discussion focuses on a number of prominent static and dynamic network models and their interconnections. We emphasize formal model descriptions, and pay special attention to the interpretation of parameters and

their estimation. We end with a description of some open problems and challenges for machine learning and statistics. *Databases, Information Systems, and Peer-to-Peer Computing* Oxford University Press

This is the newest title in the successful Molecular Plant Biology Handbook Series. Just like the other titles in the series this new book presents an excellent overview of different approaches and techniques in Metabolomics. Contributors are either from ivy-league research institutions or from companies developing new technologies in this dynamic and fast-growing field. With its approach to introduce current techniques in plant metabolomics to a wider audience and with many labs and companies considering to introduce metabolomics for their research, the title meets a growing market. The Kahl books are in addition a trusted brand for the plant science community and have always sold above expectations.

Networks and Netwars Stationery Office

This book is about Problem Frames - a concept developed by Michael Jackson. It is a practical book which demonstrates how to classify problems that occur during the development of software and how to recognise the correct solution to each problem

50th IMO - 50 Years of International Mathematical Olympiads Springer Science & Business Media

This book presents the selected peer-reviewed proceedings of the International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019). The volume focuses on latest research and advances in the field of civil engineering and materials science such as design and development of new environmental materials, performance testing and verification of

smart materials, performance analysis and simulation of steel structures, design and performance optimization of concrete structures, and building materials analysis. The book also covers studies in geotechnical engineering, hydraulic engineering, road and bridge engineering, building services design, engineering management, water resource engineering and renewable energy. The contents of this book will be useful for students, researchers and professionals working in civil engineering.

Concise Encyclopedia of Coding Theory Springer Science & Business Media

Although our urbanized civilization requires freight transport in order to sustain it, urban freight transport is especially recognized for its unsustainable impacts. To reduce the unsustainable impacts of urban freight transport, many local governments develop policies that focus sometimes more on banning or restricting urban transport than on making it more sustainable. In the first part of this thesis we develop a framework to structure the urban freight transport field and to review urban freight transport sustainability initiatives. The number of initiatives that is successfully implemented in practice turns out to be quite low. In the review and the following analysis, we try to find the barriers for successful implementation of the initiatives in practice. In the second part we examine the impacts of the most commonly used local sustainability policies. Six time-window scenarios and their impacts on the economical, environmental and social sustainability are examined based on a multiple case study. Time-window regulations increase both the environmental and distribution costs. Retail chains are affected differently by time-window pressure and vehicle restrictions due

to differences in their logical concept. based on an experiment we examine the effects of retailers' logical decisions in combination with local sustainability policies. Next, we examine the degree to which retailers are able to deal with problems caused by time-windows. Combining the primary and secondary distribution, i.e. factory gate pricing, results in more sustainable distribution operations for the retailer and in less sensitivity towards time-window regulations.

Solid State Nuclear Track Detection Springer Nature

The 30-volume set, comprising the LNCS books 12346 until 12375, constitutes the refereed proceedings of the 16th European Conference on Computer Vision, ECCV 2020, which was planned to be held in Glasgow, UK, during August 23-28, 2020. The conference was held virtually due to the COVID-19 pandemic. The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions. The papers deal with topics such as computer vision; machine learning; deep neural networks; reinforcement learning; object recognition; image classification; image processing; object detection; semantic segmentation; human pose estimation; 3d reconstruction; stereo vision; computational photography; neural networks; image coding; image reconstruction; object recognition; motion estimation.

Chaukhandi Tombs in Pakistan Springer Science & Business Media

This book celebrates the work and career of the internationally renowned art historian, David Bindman, on the occasion of his 75th birthday, and is above all a tribute to him from his former students and colleagues. With essays on sculpture, drawings,

watercolours and prints, the volume reflects the extraordinary range of Bindman's knowledge of works of art and his impact through his teaching and research on the understanding of British and European artistic developments from the eighteenth to the twentieth century. The essays cast light on questions of technique and stylistic change, patronage, collecting and iconography, and engage with issues such as the representation of race, gender, sexuality, political violence and propaganda, exile, and notions of the canon. The artists discussed here include Hogarth, Blake, Roubiliac, Thorvaldsen and Canova, all subjects of books by David Bindman, as well as Morland, Rowlandson, Gillray, Millais, Munch, Nevinson, and Heartfield.

International Books in Print Springer

As networks of video cameras are installed in many applications like security and surveillance, environmental monitoring, disaster response, and assisted living facilities, among others, image understanding in camera networks is becoming an important area of research and technology development. There are many challenges that need to be addressed in the process. Some of them are listed below: - Traditional computer vision challenges in tracking and recognition, robustness to pose, illumination, occlusion, clutter, recognition of objects, and activities; - Aggregating local information for wide area scene understanding, like obtaining stable, long-term tracks of objects; - Positioning of the cameras and dynamic control of pan-tilt-zoom (PTZ) cameras for optimal sensing; - Distributed processing and scene analysis algorithms; - Resource constraints imposed by different applications like security and surveillance, environmental monitoring, disaster response, assisted living facilities, etc. In this

book, we focus on the basic research problems in camera networks, review the current state-of-the-art and present a detailed description of some of the recently developed methodologies. The major underlying theme in all the work presented is to take a network-centric view whereby the overall decisions are made at the network level. This is sometimes achieved by accumulating all the data at a central server, while at other times by exchanging decisions made by individual cameras based on their locally sensed data. Chapter One starts with an overview of the problems in camera networks and the major research directions. Some of the currently available experimental testbeds are also discussed here. One of the fundamental tasks in the analysis of dynamic scenes is to track objects. Since camera networks cover a large area, the systems need to be able to track over such wide areas where there could be both overlapping and non-overlapping fields of view of the cameras, as addressed in Chapter Two: Distributed processing is another challenge in camera networks and recent methods have shown how to do tracking, pose estimation and calibration in a distributed environment. Consensus algorithms that enable these tasks are described in Chapter Three. Chapter Four summarizes a few approaches on object and activity recognition in both distributed and centralized camera network environments. All these methods have focused primarily on the analysis side given that images are being obtained by the cameras. Efficient utilization of such networks often calls for active sensing, whereby the acquisition and analysis phases are closely linked. We discuss this issue in detail in Chapter Five and show how collaborative and opportunistic sensing in a camera network can

be achieved. Finally, Chapter Six concludes the book by highlighting the major directions for future research. Table of Contents: An Introduction to Camera Networks / Wide-Area Tracking / Distributed Processing in Camera Networks / Object and Activity Recognition / Active Sensing / Future Research Directions

Dietary Supplements for the Health and Quality of Cultured Fish
John Wiley & Sons

This WHO Global report on psoriasis brings the public health impact of psoriasis into focus. The report is written to help raise awareness of the range of ways that psoriasis can affect peoples' lives. It intends to empower policy-makers with practical solutions to improve the health care and social inclusion of people living with psoriasis in their populations. The report highlights that much of the suffering caused by this common and complex disease can be avoided. Improving access to early diagnosis and appropriate treatment for psoriasis requires universally accessible health-care systems that provide people-centered care for patients with complex, lifelong conditions. Governments also have a key role to play in seeking to address the unnecessary social consequences of psoriasis by the challenging the myths and behaviors that lead to the exclusion of patients from healthcare settings and daily life.

The Defining Moments in Bengal Springer Science & Business Media

Netwar-like cyberwar-describes a new spectrum of conflict that is emerging in the wake of the information revolution. Netwar includes conflicts waged, on the one hand, by terrorists, criminals, gangs, and ethnic extremists; and by civil-society

activists (such as cyber activists or WTO protestors) on the other. What distinguishes netwar is the networked organizational structure of its practitioners-with many groups actually being leaderless-and their quickness in coming together in swarming

attacks. To confront this new type of conflict, it is crucial for governments, military, and law enforcement to begin networking themselves.

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