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Elementary and Beyond Springer Science & Business Media
Connectionist Models contains the proceedings of the 1990 Connectionist Models Summer School held at the University of California at San Diego. The summer school provided a forum for students and faculty to assess the state of the art with regards to connectionist modeling. Topics covered range from theoretical analysis of networks to empirical investigations of learning algorithms; speech and image processing; cognitive psychology; computational neuroscience; and VLSI design. Comprised of 40 chapters, this book begins with an introduction to mean field, Boltzmann, and Hopfield networks, focusing on deterministic Boltzmann learning in networks with asymmetric connectivity; contrastive Hebbian learning in the continuous Hopfield model; and energy minimization and the satisfiability of propositional logic. Mean field networks that learn to discriminate temporally distorted strings are described. The next sections are devoted to reinforcement learning and genetic learning, along with temporal processing and modularity. Cognitive modeling and symbol processing as well as VLSI implementation are also discussed. This monograph will be of interest to both students and academicians concerned with connectionist modeling.

A Probabilistic Perspective Springer Science & Business Media

RoboCup is an international initiative devoted to advancing the state of the art in artificial intelligence and robotics. The aims of the project and potential research directions are numerous. The ultimate, long-range goal is to build a team of robot soccer players that can beat a human World Cup champion team. This book is the second official archival publication devoted to RoboCup. It documents the achievements presented at the Second International Workshop on RoboCup held in Paris, France, in July 1998. The book opens with an overview section, provides research papers on selected technical topics, and presents technical and strategic descriptions of the work of participating teams. Of interest far beyond the rapidly growing RoboCup community, this book is also indispensable reading for R&D professionals interested in multi-agent systems, distributed artificial intelligence, and intelligent robotics.

Introduction to Conventional Transmission Electron Microscopy Springer Nature
Echinoderms, Volume 151, the latest release in the

Methods in Cell Biology series, highlights advances in the field, with this update presenting chapters on Echinoderm Genome Databases, analysis of gene regulatory networks, using ATAC-seq and RNA-seq to increase resolution in GRN connectivity, multiplex cis-regulatory analysis, experimental approaches GRN/signal pathways, BACs, analysis of chromatin accessibility using ATAC-seq, analysis of sea urchin proteins /Click IT, CRISPR/Cas9-mediated genome editing in sea urchins, super-resolution and in toto imaging of echinoderm embryos, and methods for analysis of intracellular ion signals in sperm, eggs and embryos. Presents clear, concise protocols provided by experts who have established the echinoderms as a model systems Highlights new advances in the field, with this update presenting interesting chapters on echinoderms

Stomp and Swerve Elsevier
Echinoderms Academic Press

A Platform Workbook Laxmi Publications

Aimed at undergraduate mathematics and computer science students, this book is an excellent introduction to a lot of problems of discrete mathematics. It discusses a number of selected results and methods, mostly from areas of combinatorics and graph theory, and it uses proofs and problem solving to help students understand the solutions to problems. Numerous examples, figures, and exercises are spread throughout the book.

Classical, Modern, and AI-Based Approaches Springer

The Workshop on the Economics of Information Security (WEIS) is the leading forum for interdisciplinary research and scholarship on information security and privacy, combining ideas, techniques, and expertise from the fields of economics, social science, business, law, policy, and computer science. In 2009, WEIS was held in London, at UCL, a constituent college of the University of London. Economics of Information Security and Privacy includes chapters presented at WEIS 2009, having been carefully reviewed by a program committee composed of leading researchers. Topics covered include identity theft, modeling uncertainty's effects, future directions in the economics of information security, economics of privacy, options, misaligned incentives in systems, cyber-insurance, and modeling security dynamics. Economics of Information Security and Privacy is designed for managers, policy makers, and researchers working in the related fields of economics of information security. Advanced-level students focusing on computer science, business management and economics will find this book valuable as a reference.

Implementation and Management Strategies Elsevier

A comprehensive introduction to machine learning that uses probabilistic models and inference as a unifying approach. Today's Web-enabled deluge of electronic data calls for automated methods of data analysis. Machine learning provides these, developing methods that can automatically detect patterns in data and then use the uncovered patterns to predict future data. This textbook offers a comprehensive and self-contained introduction to the field of machine learning, based on a unified, probabilistic approach. The coverage combines breadth and depth, offering necessary background material on such topics as probability, optimization, and linear algebra as well

as discussion of recent developments in the field, including conditional random fields, L1 regularization, and deep learning. The book is written in an informal, accessible style, complete with pseudo-code for the most important algorithms. All topics are copiously illustrated with color images and worked examples drawn from such application domains as biology, text processing, computer vision, and robotics. Rather than providing a cookbook of different heuristic methods, the book stresses a principled model-based approach, often using the language of graphical models to specify models in a concise and intuitive way. Almost all the models described have been implemented in a MATLAB software package—PMTK (probabilistic modeling toolkit)—that is freely available online. The book is suitable for upper-level undergraduates with an introductory-level college math background and beginning graduate students.

Optimization, Learning, and Control for Interdependent Complex Networks Morgan Kaufmann

The Advances in Inorganic Chemistry series present timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry, ranging from bio-inorganic to solid state studies. This acclaimed serial features reviews written by experts in the field and serves as an indispensable reference to advanced researchers. Each volume contains an index, and each chapter is fully referenced. Features comprehensive reviews on the latest developments Includes contributions from leading experts in the field Serves as an indispensable reference to advanced researchers

Quantitative Models for Closed-Loop Supply Chains Prentice Hall For Computer Systems, Computer Organization and Architecture courses in CS, EE, and ECE departments. Few students studying computer science or computer engineering will ever have the opportunity to build a computer system. On the other hand, most students will be required to use and program computers on a near daily basis. Computer Systems: A Programmer's Perspective introduces the important and enduring concepts that underlie computer systems by showing how these ideas affect the correctness, performance, and utility of application programs. The text's hands-on approach (including a comprehensive set of labs) helps students understand the under-the-hood operation of a modern computer system and prepares them for future courses in systems topics such as compilers, computer architecture, operating systems, and networking.

Homogeneous Catalysis Academic Press

The Art and Science of Making Up Your Mind presents basic decision-making principles and tools to help the reader respond efficiently and wisely to everyday dilemmas. Although most decisions are made informally (whether intuitively without deliberate thought, or based on careful reflection), over the centuries people have tried to develop systematic, scientific and structured ways in which to make decisions. Using qualitative counterparts to quantitative models, Rex Brown takes the reader through the basics, like 'what is a decision' and then considers a wide variety of real-life decisions, explaining how the best judgments can be made using logical principles. Combining multiple evaluations of the same judgment ("hybrid judgment") and exploring innovative analytical concepts (such as "ideal judgment"), this book explores and analyzes the skills needed to master the basics of non-mathematical decision making, and what should be done, using real world illustrations of decision methods. The book is an ideal companion for students of Thinking, Reasoning and Decision-Making, and also for anyone wanting to understand how to make better judgments in their everyday lives.

Carnegie-Mellon University Press

The European Symposium on Computer Aided Process Engineering (ESCAPE) series presents the latest innovations and achievements of leading professionals from the industrial and academic communities. The ESCAPE series serves as a forum for engineers, scientists, researchers, managers and students to present and discuss progress being made in the area of Computer Aided Process Engineering (CAPE). European industries large and small are bringing innovations into our lives, whether in the form of new technologies to address environmental problems, new products to make our homes more comfortable and energy efficient or new therapies to improve the health and

well-being of European citizens. Moreover, the European Industry needs to undertake research and technological initiatives in response to humanity's "Grand Challenges", described in the declaration of Lund, namely, Global Warming, Tightening Supplies of Energy, Water and Food, Ageing Societies, Public Health, Pandemics and Security. Thus, the Technical Theme of ESCAPE 21 will be "Process Systems Approaches for Addressing Grand Challenges in Energy, Environment, Health, Bioprocessing & Nanotechnologies".

Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes, and Intrinsic Metal Ions Academic Press

Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes, and Intrinsic Metal Ions Part A & B, are the latest volumes in the Methods in Enzymology series, continuing the legacy of this premier serial with quality chapters authored by leaders in the field. This volume covers research methods centered on the use of Electron Paramagnetic Resonance (EPR) techniques to study biological structure and function. Timely contribution that describes a rapidly changing field Leading researchers in the field Broad coverage: Instrumentation, basic theory, data analysis, and applications

Cloud Computing Academic Press

One of the most frequently occurring types of optimization problems involves decision variables which have to take integer values. From a practical point of view, such problems occur in countless areas of management, engineering, administration, etc., and include such problems as location of plants or warehouses, scheduling of aircraft, cutting raw materials to prescribed dimensions, design of computer chips, increasing reliability or capacity of networks, etc. This is the class of problems known in the professional literature as "discrete optimization" problems. While these problems are of enormous applicability, they present many challenges from a computational point of view. This volume is an update on the impressive progress achieved by mathematicians, operations researchers, and computer scientists in solving discrete optimization problems of very large sizes. The surveys in this volume present a comprehensive overview of the state of the art in discrete optimization and are written by the most prominent researchers from all over the world. This volume describes the tremendous progress in discrete optimization achieved in the last 20 years since the publication of Discrete Optimization '77, Annals of Discrete Mathematics, volumes 4 and 5, 1979 (Elsevier). It contains surveys of the state of the art written by the most prominent researchers in the field from all over the world, and covers topics like neighborhood search techniques, lift and project for mixed 0-1 programming, pseudo-Boolean optimization, scheduling and assignment problems, production planning, location, bin packing, cutting planes, vehicle routing, and applications to graph theory, mechanics, chip design, etc. Key features: • state of the art surveys • comprehensiveness • prominent authors • theoretical, computational and applied aspects. This book is a reprint of Discrete Applied Mathematics Volume 23, Numbers 1-3

Failsafe IS Project Delivery Routledge

This book covers the fundamentals of conventional transmission electron microscopy (CTEM) as applied to crystalline solids. In addition to including a large selection of worked examples and homework problems, the volume is accompanied by a supplementary website (<http://ctem.web.cmu.edu/>) containing interactive modules and over 30,000 lines of free Fortran 90 source code. The work is based on a lecture course given by Marc De Graef in the Department of Materials Science and Engineering at Carnegie Mellon University.

The NeWS Book Elsevier

Reverse logistics concerns the integration of used and obsolete products back into the supply chain as valuable resources ... This book addresses decision making in reverse logistics. It covers a wide range of aspects, related to distribution, production and inventory management, and supply chain management. For each topic, it highlights key managerial issues in real-life examples and explains which quantitative models are available for addressing them.

Natural Language Processing with Spark NLP Springer

Many difficult scientific discovery tasks can only be solved in interactive ways, by combining intelligent computing techniques with intuitive and adaptive user interfaces. It is inevitable to use human intelligence in scientific discovery systems: human eyes can capture complex patterns and relationships, along with detecting the exceptional cases in a data set; the human brain can easily manipulate perceptions to make decisions. Ambient intelligence is about this kind of ubiquitous and autonomous human interaction with information. Scientific discovery is a process of creative perception and communication, dealing with questions like: how do we significantly reduce information while maintaining meaning, or how do we extract patterns from massive data and growing data resources. Originating from the SIGCHI Workshop on Ambient Intelligence for Scientific Discovery, this state-of-the-art survey is organized in three parts: new paradigms in scientific discovery, ambient cognition, and ambient intelligence systems. Many chapters share common features such as interaction, vision, language, and biomedicine.

Machine Learning Chicago Review Press

FNA presents for the first time, in one published reference source, information on the names, taxonomic relationships, continent-wide distributions, and morphological characteristics of all plants native and naturalized found in North America north of Mexico.

Theory and Practice Oxford University Press on Demand

Sorting and Recycling Endosomes provides the latest information on endosomes, the receiving compartment for endocytosed cargos, and the donor compartment and sorting station for cargos designated to lysosomes, Golgi, or plasma membrane. In recent years, the importance of endosomes as a sorting and recycling compartment has become increasingly appreciated. As such, scientists from various fields of cell biology, membrane traffic, and beyond, see the needs to communicate and learn about the methods used to investigate the dynamics and functions of endosomes. This book brings together specialists from the field who contribute their expertise on a broad range of biomedical topics that will provide ideal reading for researchers interested in endosomal sorting and recycling. This volume covers the approaches necessary to study the key components that mediate the generation and transport of membrane-bounded carriers from the endosomes, and how membrane trafficking machinery is coordinated with cytoskeletons during these processes. In addition to studies carried out in mammalian cells, other model systems such as worm and yeast are also included. Provides the latest information on endosomes, the receiving compartment for endocytosed cargos, and the donor compartment and sorting station for cargos designated to lysosomes, Golgi, or plasma membrane. Covers an increasingly appreciated field in cell biology Includes both established and new technologies Brings together specialists from the field who contribute their expertise on a broad range of biomedical topics that will provide ideal reading for researchers interested in endosomal sorting and recycling

A Primer on Finite Element Analysis Springer Science & Business Media

This book examines what goes wrong in IT projects and what can be done to prevent this in the future.

Reverse Logistics Echinoderms

Protected Metal Clusters: From Fundamentals to Applications surveys the fundamental concepts and potential applications of atomically precise metal clusters protected by organic ligands. As this class of materials is now emerging as a result of breakthroughs in synthesis and characterization that have taken place over the last few years, the book provides the first reference with a focus on these exciting novel nanomaterials, explaining their formation, and how, and why, they play an important role in the future of molecular electronics, catalysis, sensing, biological

imaging, and medical diagnosis and therapy. Surveys the fundamental concepts and potential applications of atomically precise metal clusters protected by organic ligands. Provides well-organized, tutorial style chapters that are ideal for teaching and self-study In-depth descriptions by top scientists in the field Presents the state-of-the art of protected metal clusters and their future prospects