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Deep Learning Springer Science & Business Media This volume constitutes the refereed proceedings of the 6th International Symposium on Bioinformatics Research and Applications, ISBRA 2010, held in Storrs, CT, USA, in May 2010. The 20 revised full papers and 6 invited talks presented were carefully reviewed and selected out of 57 submissions. Topics presented span all areas of bioinformatics and computational biology, including the development of experimental or commercial systems.

Bioinformatics Research and Applications Springer Presented at a symposium held in 1990 to celebrate the Getty Museum's acquisition of the only known illuminated copy of The Visions of Tondal, twenty essays address the celebrated bibliophilic activity of Margaret of York; the career of Simon Marmion, a favorite artist of the Burgundian court; and The Visions of Tondal in relation to illustrated visions of the Middle Ages. Contributors include Maryan Ainsworth, Wim Blockmans, Walter Cahn, Albert Derolez, Peter Dinzelbacher, Rainald Grosshans, Sandra Hindman, Martin Lowry, Nigel Morgan, and Nigel Palmer.

Natural Language Processing for Online Applications Foundations and Trends (R) in Machine Learning

This Open Access proceedings present a good overview of the current research landscape of industrial robots. The objective of MHI Colloquium is a successful networking at academic and management level. Thereby the colloquium is focussing on a high level academic exchange to distribute the obtained research results, determine synergetic effects and trends, connect the actors personally and in conclusion strengthen the research field as well as the

MHI community. Additionally there is the possibility to become acquainted with the organizing institute. Primary audience are members of the scientific association for assembly, handling and industrial robots (WG MHI).

Current Issues in Computational Linguistics: In Honour of Don Walker

Springer

In this age of information overload, people use a variety of strategies to make choices about what to buy, how to spend their leisure time, and even whom to date. Recommender systems automate some of these strategies with the goal of providing affordable, personal, and high-quality recommendations. This book offers an overview of approaches to developing state-of-the-art recommender systems. The authors present current algorithmic approaches for generating personalized buying proposals, such as collaborative and content-based filtering, as well as more interactive and knowledge-based approaches. They also discuss how to measure the effectiveness of recommender systems and illustrate the methods with practical case studies. The final chapters cover emerging topics such as recommender systems in the social web and consumer buying behavior theory. Suitable for computer science researchers and students interested in getting an overview of the field, this book will also be useful for professionals looking for the right technology to build real-world recommender systems.

Crisis Decisionmaking

Cambridge University Press

Providing a broad but in-depth introduction to neural network and machine learning in a statistical framework, this book provides a single, comprehensive resource for study and further research. All the major popular neural network models and statistical learning approaches are covered with examples and exercises in every chapter to develop a practical working understanding of the content. Each of the twenty-five chapters includes state-of-the-art descriptions and important research results on the respective topics. The broad coverage includes the multilayer perceptron, the Hopfield network, associative memory models, clustering models and algorithms, the radial basis function network, recurrent neural networks, principal component analysis, nonnegative matrix factorization, independent component analysis, discriminant analysis, support vector machines, kernel methods, reinforcement learning, probabilistic and Bayesian networks, data fusion and ensemble learning, fuzzy sets and logic, neurofuzzy models, hardware implementations, and some machine learning topics. Applications to biometric/bioinformatics and data mining are also included. Focusing on the prominent accomplishments and their practical aspects, academic and technical staff, graduate students and researchers will find that this provides a solid foundation and encompassing reference for the fields of neural networks, pattern recognition, signal processing, machine learning, computational intelligence, and data mining.

Advances in Knowledge Discovery and Data Mining

Springer Science & Business Media

This volume is the Proceedings of the First International Conference on Advanced Multimedia Content Processing (AMCP '98). With the remarkable advances made in computer and communication hardware/software system technologies, we can now

easily obtain large volumes of multimedia data through advanced computer networks and store and handle them in our own personal hardware. Sophisticated and integrated multimedia content processing technologies, which are essential to building a highly advanced information based society, are attracting ever increasing attention in various service areas, including broadcasting, publishing, medical treatment, entertainment, and communications. The prime concerns of these technologies are how to acquire multimedia content data from the real world, how to automatically organize and store these obtained data in databases for sharing and reuse, and how to generate and create new, attractive multimedia content using the stored data. This conference brings together researchers and practitioners from academia, in dustry, and public agencies to present and discuss recent advances in the acquisition, management, retrieval, creation, and utilization of large amounts of multimedia con tent. Artistic and innovative applications through the active use of multimedia con tent are also subjects of interest. The conference aims at covering the following par ticular areas: (1) Dynamic multimedia data modeling and intelligent structuring of content based on active, bottom up, and self organized strategies. (2) Access archi tecture, querying facilities, and distribution mechanisms for multimedia content.

Information Retrieval Architecture and Algorithms Pearson Education

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Scalable Algorithms for Data and Network Analysis MIT Press

An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. “ Written by three experts in the field, Deep Learning is the only comprehensive book on the subject. ” —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no

need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

Machine Learning for Audio, Image and Video Analysis Getty Publications

This work discusses research in theoretical and practical aspects of security in distributed systems, in particular in information systems and related security tools. Topics include XML-based management systems, security of multimedia data, and technology and use of smart cards.

Margaret of York, Simon Marmion, and The Visions of Tondal SIAM

The use of light-emitting proteins for the detection of biomolecules provides fast and sensitive methods which overcome the disadvantages of radioactive labels and the high cost of fluorescent dyes. This reference work summarizes modern advanced techniques and their applications and includes practical examples of assays based on photoproteins. The book presents contemporary key topics like luminescent marine organisms, DNA probes, reporter gene assays and photoproteins, ratiometric sensing, use of photoproteins for in vivo functional imaging and luminescent proteins in binding assays, to name just a few, and is complemented by recent advances in instrumentation. Includes an introductory chapter by 2008 Chemistry Nobel laureate Osamu Shimomura.

Neural Networks and Statistical Learning Springer Science & Business Media

This unique text brings together into a single framework current research in the three areas of discrete calculus, complex networks, and algorithmic content extraction. Many example applications from several fields of computational science are provided.

Patterns, Predictions, and Actions: Foundations of Machine Learning Springer Science & Business Media
Declarative languages build on sound theoretical bases to provide attractive frameworks for application development. These languages have been succe- fully applied to a wide variety of real-world situations including database m- agement, active networks, software engineering, and decision-support systems. New developments in theory and implementation expose fresh opportunities. At the same time, the application of declarative languages to novel problems raises numerous interesting research issues. These well-known questions include scalability, language extensions for application deployment, and programming environments. Thus, applications drive the progress in the theory and imp- mentation of declarative systems, and in turn bene?t from this progress. The International Symposium on Practical Applications of Declarative L- guages (PADL) provides a forum for researchers, practitioners, and implementors of declarative languages to exchange ideas on current and novel application - eas and on the requirements for e?ective use of declarative systems. The fourth PADL symposium was held in Portland, Oregon, on January 19 and 20, 2002.
SharePoint 2010 Web Parts in Action MIT Press
This text presents a theoretical and practical examination of the latest developments in Information Retrieval and their application to existing systems. By starting with a functional discussion of what is needed for an information system, the reader can grasp the scope of information retrieval problems and discover the tools to resolve them. The book takes a system approach to explore every functional processing step in a system from ingest of an item to be indexed to displaying results, showing how implementation decisions add to the information retrieval goal, and thus providing the user with the needed outcome, while minimizing their resources to obtain those results. The text stresses the current migration of information retrieval from just textual to multimedia, expounding upon multimedia search, retrieval and display, as well as classic and new textual techniques. It also introduces developments in hardware, and more importantly, search architectures, such as those introduced by Google, in order to approach scalability issues. About this textbook: A first course text for advanced level courses, providing a survey of information retrieval system theory and architecture, complete with challenging exercises Approaches information retrieval from a practical systems view in order for the reader to grasp both scope and solutions Features what is achievable using existing technologies and investigates what deficiencies warrant additional exploration
Introduction to Information Retrieval Palgrave Macmillan
The rapidly growing volume of digital natural language text and the complexity of data abstracted from it have increasingly rendered

traditional corpus linguistic analytical methodology obsolete. This book describes a cluster analytic methodology for generating linguistic hypotheses on the basis of data abstracted from language corpora.

Inside Microsoft SharePoint 2013 Cornell University Press

An authoritative, up-to-date graduate textbook on machine learning that highlights its historical context and societal impacts Patterns, Predictions, and Actions introduces graduate students to the essentials of machine learning while offering invaluable perspective on its history and social implications. Beginning with the foundations of decision making, Moritz Hardt and Benjamin Recht explain how representation, optimization, and generalization are the constituents of supervised learning. They go on to provide self-contained discussions of causality, the practice of causal inference, sequential decision making, and reinforcement learning, equipping readers with the concepts and tools they need to assess the consequences that may arise from acting on statistical decisions. Provides a modern introduction to machine learning, showing how data patterns support predictions and consequential actions Pays special attention to societal impacts and fairness in decision making Traces the development of machine learning from its origins to today Features a novel chapter on machine learning benchmarks and datasets Invites readers from all backgrounds, requiring some experience with probability, calculus, and linear algebra An essential textbook for students and a guide for researchers

Discrete Calculus Walter de Gruyter

Theoretical results suggest that in order to learn the kind of complicated functions that can represent high-level abstractions (e.g. in vision, language, and other AI-level tasks), one may need deep architectures. Deep architectures are composed of multiple levels of non-linear operations, such as in neural nets with many hidden layers or in complicated propositional formulae re-using many sub-formulae. Searching the parameter space of deep architectures is a difficult task, but learning algorithms such as those for Deep Belief Networks have recently been proposed to tackle this problem with notable success, beating the state-of-the-art in certain areas. This paper discusses the motivations and principles regarding learning algorithms for deep architectures, in particular those exploiting as building blocks unsupervised learning of single-layer models such as Restricted Boltzmann Machines, used to construct deeper models such as Deep Belief Networks.

Mathematics for Machine Learning Springer Science & Business Media

This book begins with the past and present of the subversive technology of artificial intelligence, clearly analyzes the overall picture, latest developments and development trends of the artificial intelligence industry, and conducts in-depth research on the competitive situation of various countries. The book also provides an

in-depth analysis of the opportunities and challenges that artificial intelligence brings to individuals, businesses, and society. For readers who want to fully understand artificial intelligence, this book provides an important reference and is a must-read.

Nanoscience and Engineering in Superconductivity Springer Science & Business Media

Explains the success of Nearest Neighbor Methods in Prediction, both in theory and in practice.

Semi-Supervised Learning Springer Nature

User modeling researchers look for ways of enabling interactive software systems to adapt to their users-by constructing, maintaining, and exploiting user models, which are representations of properties of individual users. User modeling has been found to enhance the effectiveness and/or usability of software systems in a wide variety of situations. Techniques for user modeling have been developed and evaluated by researchers in a number of fields, including artificial intelligence, education, psychology, linguistics, human-computer interaction, and information science. The biennial series of International Conferences on User Modeling provides a forum in which academic and industrial researchers from all of these fields can exchange their complementary insights on user modeling issues. The published proceedings of these conferences represent a major source of information about developments in this area.

Gulf War and Health Simon and Schuster

Build custom SharePoint solutions with architectural insights from the experts. Take a deep dive into SharePoint 2013, and master the intricacies for designing and implementing robust apps and other business solutions for your organization. Led by an author team with in-depth knowledge of SharePoint architecture, you ' ll thoroughly explore the SharePoint 2013 development platform and new app model through hands-on tasks and extensive code samples. Discover how to: Create SharePoint-hosted, provider-hosted, and autohosted apps Master the new app security model with OAuth and Certificates Develop workflows with the SharePoint 2013 workflow model Design a custom search experience and create search-based apps Leverage the client-side object model and REST APIs Produce catalog-driven web sites with Web Content Management capabilities Get cloud-based data sources with Business Connectivity Services Create and utilize remote event receivers for lists and libraries Generate new social networking apps and solutions