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CARLIE FARLEY

Artificial Intelligence in Design Addison Wesley Publishing Company
The two-volume set IFIP AICT 363 and 364 constitutes the refereed proceedings of the 12th International Conference on Engineering Applications of Neural Networks, EANN 2011, and the 7th IFIP WG 12.5 International Conference, AIAI 2011, held jointly in Corfu, Greece, in September 2011. The 52 revised full papers and 28 revised short papers presented together with 31 workshop papers were carefully reviewed and selected from 150 submissions. The second volume includes the papers that were accepted for presentation at the AIAI 2011 conference. They are organized in topical sections on computer vision and robotics, classification/pattern recognition, financial and management applications of AI, fuzzy systems, learning and novel algorithms, recurrent and radial basis function ANN, machine learning, generic algorithms, data mining, reinforcement learning, Web applications of ANN, medical applications of ANN and ethics of AI, and environmental and earth applications of AI. The volume also contains the accepted papers from the First Workshop on Computational Intelligence in Software Engineering (CISE 2011) and the Workshop on Artificial Intelligence Applications in Biomedicine (AIAB 2011).
Autonomous and Autonomic Systems: With Applications to NASA Intelligent Spacecraft Operations and Exploration Systems Springer
"This book provides a comprehensive collection of state-of-the-art advancements in rule languages"--Provided by publisher.
Verification and Validation of Rule-Based Expert Systems IGI Global
When I compare the books on expert systems in my library with the production expert systems I know of, I note that there are few good books on building expert systems in Prolog. Of course, the set of actual production systems is a little small for a valid statistical sample, at least at the time and place of this writing -

here in Gennany, and in the first days of 1989. But there are at least some systems I have seen running in real life commercial and industrial environments, and not only at trade shows. I can observe the most impressive one in my immediate neighborhood. It is installed in the Telephone Shop of the Gennan Federal PTT near the Munich National Theater, and helps configure telephone systems and small PBXs for mostly private customers. It has a neat, graphical interface, and constructs and prices an individual telephone installation interactively before the very eyes of the customer. The hidden features of the system are even more impressive. It is part of an expert system network with a distributed knowledge base that will grow to about 150 installations in every Telephone Shop throughout Gennany. Each of them can be updated individually overnight via Teletex to present special offers or to adapt the selection process to the hardware supplies currently available at the local ware houses.

Clinical Informatics Literacy Springer Science & Business Media

Big Data Analytics and Medical Information Systems presents the valuable use of artificial intelligence and big data analytics in healthcare and medical sciences. It focuses on theories, methods and approaches in which data analytic techniques can be used to examine medical data to provide a meaningful pattern for classification, diagnosis, treatment, and prediction of diseases. The book discusses topics such as theories and concepts of the field, and how big medical data mining techniques and applications can be applied to classification, diagnosis, treatment, and prediction of diseases. In addition, it covers social, behavioral, and medical fake news analytics to prevent medical misinformation and myths. It is a valuable resource for graduate students, researchers and members of biomedical field who are interested in learning more about analytic tools to support their work. Presents theories, methods and approaches in which data analytic techniques are used for medical data Brings practical information on how to use big data for classification, diagnosis, treatment, and prediction of diseases Discusses social, behavioral, and medical fake news analytics for medical information systems

Anesthesia Equipment E-Book CRC Press

The Database and Expert Systems Application -DEXA - conferences are mainly oriented to establish a state-of-the art forum on Database and Expert System applications. But Practice without Theory has no sense, as Leonardo said five centuries ago. In this Conference we try a comprornise between these two complementary aspects. A total of 5 sessions are application-oriented, ranging from classical applications to more unusual ones in Software Engineering. Recent research aspects in Databases, such as activity, deductivity and/or Object Orientation are also present in DEXA 92, as well as the implication of the new "data models" such as OO-Model, Deductive Model, etc .. included in the Modelling sessions. Other areas of interest, such as Hyper-Text and Multimedia application, together with the classical field of Information Retrieval are also considered. Finally, Implementation Apects are reflected in very concrete fields. A total of of nearly 200 papers submitted from all over the world were sent to DEXA 92. Only 90 could be accepted. A Poster session has also been establishcd. DEXA 90 was held in Vienna, Austria; DEXA 91 in Berlin, Germany; and DEXA 92 will take place

in Valencia, Spain, where we are celebrating the discovery of thc New World just five centurics ago, in Leonardo's age. Both the quality of the Conference and the compromise between Practice and Thcory are duc to the credit of all the DEXA 92 authors.

Context-Aware Machine Learning and Mobile Data Analytics Wiley-Interscience

This book is about the role of expert systems in marketing, particularly in the consumer goods industry. Section I describes the changing nature of consumer marketing and presents the rationale and need for expert systems. The remainder of the book combines a tutorial on expert systems with a series of expert system prototypes. The tutorial material is presented in three places. First, section II is devoted to introducing expert systems in general. Chapter 3 provides a general introduction to the topic, which is continued in chapter 4 where a small expert system (the Promotion Advisor) is used to illustrate the important features of a backward-chaining, rule-based system. The promotion theme is extended in chapter 5 where a larger system is presented. The material in all three of these chapters was designed as an introduction and tutorial on the most common technology for building applied expert systems: the backward-chaining, rule-based inference engine. Tutorial material is also contained in the body of the chapters that describe the prototypes. This material is usually in the form of sample rules and a description of the process for applying the rules. The third location of the expert system material is in chapters that follow discussions of the prototypes. Chapter 7 is a technical chapter on the coupling of expert systems to traditional systems.

Intelligent Techniques in E-Commerce Springer Science & Business Media

People use the word strategy in a variety of different contexts. The term has connotations ranging from statesmanship to economic planning, and has become pervasive in the social sciences. We also talk about "problem solving strategies" and "corporate strategy" in a large business enterprise. The concept of strategy applies whenever a sequence of goal-oriented actions is based on large-scale and long-range planning. This monograph gives a systematic overview of the theory of strategies, a new area of enquiry developed over the past two decades by the author and his team. The projects described have clearly defined research objectives and are based on realistic assumptions about the environments in which the programming systems will work, and about the constraints and requirements they have to satisfy. Applications of the systems range over various aspects of air traffic control, automatic verification and validation of discrete-event simulation models, econometric model building, distributed planning systems for manufacturing, control of traffic lights, and others. The book is aimed at researchers, teachers and students in computer science, management science and certain areas of engineering. The reader should have some maturity in computer science and mathematics, and familiarity with the basic concepts of artificial intelligence.

Manufacturing Decision Support Systems Dartmouth (Ashgate)

The development of modern knowledge-based systems, for applications ranging from medicine to finance, necessitates going well beyond traditional rule-based programming. Frontiers of Expert Systems: Reasoning with Limited Knowledge attempts to satisfy such a need, introducing exciting and recent advances at

the frontiers of the field of expert systems. Beginning with the central topics of logic, uncertainty and rule-based reasoning, each chapter in the book presents a different perspective on how we may solve problems that arise due to limitations in the knowledge of an expert system's reasoner. Successive chapters address (i) the fundamentals of knowledge-based systems, (ii) formal inference, and reasoning about models of a changing and partially known world, (iii) uncertainty and probabilistic methods, (iv) the expression of knowledge in rule-based systems, (v) evolving representations of knowledge as a system interacts with the environment, (vi) applying connectionist learning algorithms to improve on knowledge acquired from experts, (vii) reasoning with cases organized in indexed hierarchies, (viii) the process of acquiring and inductively learning knowledge, (ix) extraction of knowledge nuggets from very large data sets, and (x) interactions between multiple specialized reasoners with specialized knowledge bases. Each chapter takes the reader on a journey from elementary concepts to topics of active research, providing a concise description of several topics within and related to the field of expert systems, with pointers to practical applications and other relevant literature. Frontiers of Expert Systems: Reasoning with Limited Knowledge is suitable as a secondary text for a graduate-level course, and as a reference for researchers and practitioners in industry.

Contemporary Issues in Audit Management and Forensic Accounting Springer Nature

This volume comprises indexes to Volumes 48-72, a contributing author index, a reference author index and a subject index.

Artificial Intelligence in Precision Health CRC Press

Expert systems are computer systems that engage in legal reasoning by assisting general legal practitioners in solving legal problems beyond their range of knowledge or expertise. This book is a comprehensive investigation of expert systems in law. Susskind uses jurisprudence throughout the book to articulate the presuppositions and limitations of building such systems, and to provide sound practical guidance for their design.

Handbook of Expert Systems Applications in Manufacturing

Structures and rules Springer Science & Business Media

Thinking in terms of facts and rules is perhaps one of the most common ways of approaching problem de?nition and problem solving both in everyday life and under more formal circumstances. The best known set of rules, the Ten Commandments have been accompanying us since the times of Moses; the Decalogue proved to be simple but powerful, concise and universal. It is logically consistent and complete. There are also many other attempts to impose rule-based regulations in almost all areas of life, including professional work, education, medical services, taxes, etc. Some most typical examples may include various codes (e.g. legal or tra?c code), regulations (especially military ones), and many systems of customary or informal rules. The universal nature of rule-based formulation of behavior or inference principles follows from the concept of rules being a simple and intuitive yet powerful concept of very high expressive power. Moreover, rules as such encode in fact functional aspects of behavior and can be used for modeling numerous phenomena.

Contributions to a Computer-Based Theory of Strategies Springer Science & Business Media

Soft computing encompasses various computational methodologies, which, unlike conventional algorithms, are tolerant of imprecision, uncertainty, and partial truth. Soft computing technologies offer adaptability as a characteristic feature and thus permit the tracking of a problem through a changing environment. Besides some recent developments in areas like rough sets and probabilistic networks, fuzzy logic, evolutionary algorithms, and artificial neural networks are core ingredients of soft computing, which are all bio-inspired and can easily be combined synergetically. This book presents a well-balanced integration of fuzzy logic, evolutionary computing, and neural information processing. The three constituents are introduced to the reader systematically and brought together in differentiated combinations step by step. The text was developed from courses given by the authors and offers numerous illustrations as

Management Information Systems for the Information Age Elsevier Health Sciences

The goal of this book is to present a modeling framework for the Virtual Organization that is focused on process composition. This framework uses Predicate Calculus Knowledge Bases. Petri Net-based modeling is also discussed. In this context, a Data Mining model is proposed, using a fuzzy mathematical approach, aiming to discover knowledge. A Knowledge-Based framework has been proposed in order to present an all-inclusive knowledge store for static and dynamic properties. Toward this direction, a Knowledge Base is created, and inferences are arrived at. This book features an advisory tool for Mergers and Acquisitions of Organizations using the Fuzzy Data Mining Framework and highlights the novelty of a Knowledge-Based Service-Oriented Architecture approach and development of an Enterprise Architectural model using AI that serves a wide audience. Students of Strategic Management in business schools and postgraduate programs in technology institutes seeking application areas of AI and Data Mining, as well as business/technology professionals in organizations aiming to create value through Mergers and Acquisitions and elsewhere, will benefit from the reading of this book.

Artificial Intelligence and Expert Systems for Engineers Academic Press

During the last two decades, a tremendous growth in the popularity and applications of computers in manufacturing has occurred. Computer aided design, computer-aided manufacturing, flexible manufacturing systems, group technology and many others are considered by many manufacturing executives as the most promising technologies and philosophies that, if successfully implemented, can reduce costs and enable the US manufacturing companies to become more competitive in the global market. In the computer-integrated manufacturing environ ment, the decision processes are often more involved. The decision makers are frequently required to have access to a vast amount of data to support and analyze their complex decision problems at strategic and tactical levels. Decision support systems are often referred to as computer-based information technologies that allow the decision makers to interactively communicate and solve the decision problems. Manufacturing Decision Support Systems is intended to report the latest developments and address the central issues in this area.

This volume consists of 14 refereed chapters, written by leading researchers from academia and industry.
Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches Springer Science & Business Media
In a systematic and clear manner, the authors discuss the problems associated with clinical decision making and explore the current methods to solve them. In this monograph, they examine the results of combining the classical control system approach with the symbolic approaches which have been central to developments in artificial intelligence. Well illustrated with case studies, this volume will prove to be an invaluable resource to system scientists, engineers, computer scientists, and members of the medical community.
Expert Systems for Scanner Data Environments CRC Press
Clinical decision support systems, medical applications, and electronic health records each help to ensure the provision of efficient, accurate healthcare services, thereby providing patients with a better experience and overall reducing health care costs. Advancing Technologies and Intelligence in Healthcare and Clinical Environments Breakthroughs is a prime resource for both academic researchers and practitioners looking to advance their knowledge of the interdisciplinary areas of healthcare information technology and management research. This book addresses innovative concepts and critical issues in the emerging field of health information systems and informatics, with an emphasis on sustainable computer information systems, ensuring healthcare efficiency, and denoising MRI and ECG outputs.
Introduction to Expert Systems Academic Press
Offering highly visual, easy-to-read coverage of the full range of anesthesia equipment in use today, this authoritative reference is your go-to text for objective, informed answers to ensure optimal patient safety. Anesthesia Equipment, 3rd Edition, provides detailed information on the intricate workings of each device or workstation, keeping you fully up to date and helping you meet both equipment and patient care challenges. Remains unequalled in both depth and breadth of coverage, offering readable, concise guidance on all aspects of today’s anesthesia machines and equipment. Details the latest machines, vaporizers, ventilators, breathing systems, vigilance, ergonomics, and simulation. Improves your understanding of the physical principles of equipment, the rationale for its use, delivery systems for inhalational anesthesia, systems monitoring, hazards and safety features, maintenance and quality assurance, special situations/equipment for non-routine adult anesthesia, and future directions for the field. Includes ASA Practice Parameters for care, and helps you ensure patient safety with detailed advice on risk management and medicolegal implications of equipment use. Highlights the text with hundreds of full-color line drawings and photographs, graphs, and charts.
Dealing with Medical Knowledge Springer Science & Business Media
In the 18 chapters in this volume of Contemporary Studies in Economic and Financial Analysis, expert contributors gather together to examine the extent and characteristics of forensic accounting, a field which has been practiced for many years, but is still not internationally regulated yet.
Competent Expert Systems Springer Science & Business Media

This book provides a comprehensive presentation of artificial intelligence (AI) methodologies and tools valuable for solving a wide spectrum of engineering problems. What's more, it offers these AI tools on an accompanying disk with easy-to-use software. Artificial Intelligence and Expert Systems for Engineers details the AI-based methodologies known as: Knowledge-Based Expert Systems (KBES); Design Synthesis; Design Critiquing; and Case-Based Reasoning. KBES are the most popular AI-based tools and have been successfully applied to planning, diagnosis, classification, monitoring, and design problems. Case studies are provided with problems in engineering design for better understanding of the problem-solving models using the four methodologies in an integrated software environment. Throughout the book, examples are given so that students and engineers can acquire skills in the use of AI-based methodologies for application to practical problems ranging from diagnosis to planning, design, and construction and manufacturing in various disciplines of engineering. Artificial Intelligence and Expert Systems for Engineers is a must-have reference for students, teachers, research scholars, and professionals working in the area of civil engineering design in particular and engineering design in general.

A Pragmatic Legal Expert System Springer Science & Business Media

Anesthesia Equipment: Principles and Applications, 2nd Edition, by Dr. Jan Ehrenwerth and Dr. James B. Eisenkraft, offers expert, highly visual, practical guidance on the full range of delivery systems and technology used in practice today. It equips you with the objective, informed answers you need to ensure optimal patient safety. "This is a comprehensive, up-to-date reference textbook covering all aspects of physics and equipment for the modern American anaesthetist. It may be helpful to those studying for American fellowship examinations but is not suited to preparation for the UK FRCA examinations." Reviewed by: I.Wrench on behalf of the British Journal of Anaesthesia, Feb 2014 Make informed decisions by expanding your understanding of the physical principles of equipment, the rationale for its use, delivery systems for inhalational anesthesia, systems monitoring, hazards and safety features, maintenance and quality assurance, special situations/equipment for non-routine adult anesthesia, and future directions for the field. Ensure patient safety with detailed advice on risk management and medicolegal implications of equipment use. Apply the most complete and up-to-date information available on machines, vaporizers, ventilators, breathing systems, vigilance, ergonomics, and simulation. Visualize the safe and effective use of equipment thanks to hundreds of full-color line drawings and photographs. Access the complete text and images online, fully searchable, at www.expertconsult.com.