

Foundations of

Intelligent Knowledge- Based Systems

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Foundations Of Intelligent Knowledge Based Systems

**Rasiah Logananthara, Günther
Palm, Moonis Ali**



Foundations Of Intelligent Knowledge Based Systems:

Foundations of Intelligent Knowledge-based Systems I. S. Torsun, 1995 The construction of intelligent machines is the primary goal of research in artificial intelligence and knowledge based systems This book is designed to introduce the foundations of mathematical and philosophical approaches to this rapidly expanding research area Foundations of Intelligent Knowledge Based Systems is divided into three parts Part I uses logic as a guideline and addresses fundamental theoretical and practical issues in developing large scale intelligent knowledge based systems IKBS PartII discusses modal and intentional logic nonmonotonic logic induction and reasoning under uncertainty and also covers advanced concepts such as planning actions states and temporal systems Part III looks at the architecture and design principles ofIKBSs using a case study thus illuminating many of the principles and concepts developed in Parts I and II This text presents a unified and rigorous study of IKBS theory and application It is essential reading for advanced undergraduates graduates and developers in knowledge based systems artificial intelligence and expert systems Key Features Presents a unified and rigorous study of intelligent knowledge based systems theory and application Comprehensively addresses computational logic methods and techniques applied to knowledge based systems Covers the whole field from the most theoretical aspects of logic to the most practical aspects of a case study Provides exercises at the end of each chapter Intelligent Knowledge-Based Systems

Cornelius T. Leondes, 2010-04-28 For most of our history the wealth of a nation was limited by the size and stamina of the work force Today national wealth is measured in intellectual capital Nations possessing skillful people in such diverse areas as science medicine business and engineering produce innovations that drive the nation to a higher quality of life To better utilize these valuable resources intelligent knowledge based systems technology has evolved at a rapid and significantly expanding rate Reflecting the most fascinating AI based research and its broad practical applications intelligent knowledge based systems technology is being utilized by nations to improve their medical care advance their engineering technology and increase their manufacturing productivity as well as play a significant role in a very wide variety of other areas of activity of substantive significance Today in the beginning of the 21st century it is difficult to imagine the development of the modern world without extensive use of the AI information technology that is rapidly transforming the global knowledge based economy as well as entire societies The breadth of the major application areas of intelligent knowledge based systems technology is very impressive These include among other areas Agriculture Business Chemistry Communications Computer Systems Education Electronics Engineering Environment Geology Image Processing Information Management Law Manufacturing Mathematics Medicine Meteorology Military Mining Power Systems Science Space Technology and Transportation The great breadth and expanding significance of this field on the international scene require a multi volume major reference work for an adequately substantive treatment of the subject Intelligent Knowledge Based Systems Business and Technology in The New Millennium This work consists of the following distinctly titled and well integrated volumes

Volume I Knowledge Based Systems Volume II Information Technology Volume III Expert and Agent Systems Volume IV Intelligent Systems Volume V Neural Networks This five volume set clearly manifests the great significance of these key technologies for the new economies of the new millennium The Volumes Volume 1 Knowledge Based Systems addresses the basic question of how accumulated data and staff expertise from business operations can be abstracted into useful knowledge and how such knowledge can be applied to ongoing operations The wide range of areas represented includes product innovation and design intelligent database exploitation and business model analysis Eleven chapters Volume 2 Information Technology addresses the important question of how data should be stored and used to maximize its overall value Case studies examine a wide variety of application areas including product development manufacturing product management and product pricing Ten chapters Volume 3 Expert and Agent Systems considers such application areas as image databases business process monitoring e commerce and production planning and scheduling offering a wide range of perspectives and business function concentrations to stimulate readers innovative thought Ten chapters Volume 4 Intelligent Systems discusses applications in such areas as mission critical functions business forecasting medical patient care and product design and development Nine chapters Volume 5 Neural Networks Fuzzy Theory and Genetic Algorithm Techniques explores applications in such areas as bioinformatics product life cycle cost estimating product development computer aided design product assembly and facility location Ten chapters The discussions in these volumes provide a wealth of practical ideas intended to foster innovation in thought and consequently in the further development of technology Together they comprise a significant and uniquely comprehensive reference source for research workers practitioners computer scientists academics students and others on the international scene for years to come

Logical Foundations for Rule-Based Systems Antoni Ligeza, 2006-01-10 The book presents logical foundations for rule based systems An attempt has been made to provide an in depth discussion of logical and other aspects of such systems including languages for knowledge representation inference mechanisms inference control design and verification The ultimate goal was to provide a deeper theoretical insight into the nature of rule based systems and put together the most complete presentation including details so frequently skipped in typical textbooks The book may be useful to potentially wide audience but it is aimed at providing specific knowledge for graduate post graduate and Ph D students as well as knowledge engineers and research workers involved in the domain of AI It also constitutes a summary of the Author s research and experience gathered through several years of his research work

Modeling with Rules Using Semantic Knowledge Engineering Grzegorz J. Nalepa, 2017-10-04 This book proposes a consistent methodology for building intelligent systems It puts forward several formal models for designing and implementing rules based systems and presents illustrative case studies of their applications These include software engineering business process systems Semantic Web and context aware systems on mobile devices Rules offer an intuitive yet powerful method for representing human knowledge and intelligent systems based on rules have many important

applications However their practical development requires proper techniques and models a gap that this book effectively addresses

Foundations of Knowledge Base Management Joachim W. Schmidt, Costantino Thanos, 2012-12-06 In the past applied artificial intelligence systems were built with particular emphasis on general reasoning methods intended to function efficiently even when only relatively little domain specific knowledge was available In other words AI technology aimed at the processing of knowledge stored under comparatively general representation schemes Nowadays the focus has been redirected to the role played by specific and detailed knowledge rather than to the reasoning methods themselves Many new application systems are centered around knowledge bases i.e. they are based on large collections of facts, rules and heuristics that capture knowledge about a specific domain of applications Experience has shown that when used in combination with rich knowledge bases even simple reasoning methods can be extremely effective in a wide variety of problem domains Knowledge base construction and management will thus become the key factor in the development of viable knowledge based applications Knowledge Base Management Systems KBMSs are being proposed that provide user friendly environments for the construction, retrieval and manipulation of large shared knowledge bases In addition to deductive reasoning KBMSs require operational characteristics such as concurrent access, integrity, maintenance, error recovery, security and perhaps distribution For the development of KBMSs the need to integrate concepts and technologies from different areas such as Artificial Intelligence, Databases and Logic has been widely recognized One of the central issues for KBMSs is the framework used for knowledge representation semantic networks, frames, rules and logics are proposed by the AI and logic communities

Intelligent Systems for Engineers and Scientists Adrian A. Hopgood, 2000-10-11 This updated version of the best selling Knowledge Based Systems for Engineers and Scientists CRC Press 1993 embraces both the explicit knowledge based models retained from the first edition and the implicit numerical models represented by neural networks and optimization algorithms The title change to Intelligent Systems for Engineers and Scientists

Intelligent knowledge based systems in electrical power engineering J.R. McDonald, Stephen McArthur, Graeme Burt, Jerry Zielinski, 2012-12-06 Intelligent Knowledge Based Systems in Electrical Power Engineering details how intelligent applications can be used in the power industry The book gives a general and historical overview of intelligent knowledge based systems IKBS and artificial intelligence AI and a broad analysis of the application of these techniques in the electrical power industry It includes chapters on forecasting and planning in power systems, design of electrical plant and systems, IKBS in condition monitoring, alarm processing, event and fault diagnosis and an analysis of future trends in IKBS for power engineering No previous knowledge of IKBS is assumed but an appreciation of electrical transmission and distribution systems would be useful

Multiple Approaches to Intelligent Systems Ibrahim F. Imam, Yves Kodratoff, Ayman El-Dessouki, Moonis Ali, 2004-05-19 We never create anything We discover and reproduce The Twelfth International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems has a distinguished

theme It is concerned with bridging the gap between the academic and the industrial worlds of Artificial Intelligence AI and Expert Systems The academic world is mainly concerned with discovering new algorithms approaches and methodologies however the industrial world is mainly driven by profits and concerned with producing new products or solving customers problems Ten years ago the artificial intelligence research gap between academia and industry was very broad Recently this gap has been narrowed by the emergence of new fields and new joint research strategies in academia Among the new fields which contributed to the academic industrial convergence are knowledge representation machine learning searching reasoning distributed AI neural networks data mining intelligent agents robotics pattern recognition vision applications of expert systems and others It is worth noting that the end results of research in these fields are usually products rather than empirical analyses and theoretical proofs Applications of such technologies have found great success in many domains including fraud detection internet service banking credit risk and assessment telecommunication etc Progress in these areas has encouraged the leading corporations to institute research funding programs for academic institutes Others have their own research laboratories some of which produce state of the art research

On Knowledge Base Management Systems

Michael L. Brodie, John Mylopoulos, 2012-12-06 Current experimental systems in industry government and the military take advantage of knowledge based processing For example the Defense Advanced Research Projects Agency DARPA and the United States Geological Survey USGS are supporting the development of information systems that contain diverse vast and growing repositories of data e g vast databases storing geographic information These systems require powerful reasoning capabilities and processing such as data processing communications and multidisciplinary of such systems will scientific analysis The number and importance grow significantly in the near future Many of these systems are severely limited by current knowledge base and database systems technology Currently knowledge based system technology lacks the means to provide efficient and robust knowledge bases while database system technology lacks knowledge representation and reasoning capabilities The time has come to face the complex research problems that must be solved before we can design and implement real large scale software systems that depend on knowledge based processing To date there has been little research directed at integrating knowledge base and database technologies It is now imperative that such coordinated research be initiated and that it respond to the urgent need for a technology that will enable operational large scale knowledge based system applications

Robotics, Automation and Control Pavla Pecherková, Miroslav Flídr, Jindřich Duník, 2008-10-01 This book was conceived as a gathering place of new ideas from academia industry research and practice in the fields of robotics automation and control The aim of the book was to point out interactions among various fields of interests in spite of diversity and narrow specializations which prevail in the current research The common denominator of all included chapters appears to be a synergy of various specializations This synergy yields deeper understanding of the treated problems Each new approach applied to a particular problem can enrich and inspire improvements of already

established approaches to the problem Methodology and Tools in Knowledge-Based Systems Angel P. del Pobil, Jose Mira, Ali Moonis, 2006-04-11 This two volume set constitutes the refereed proceedings of the 11th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems IEA AIE 98 held in Benicassim Castellon Spain in June 1998 The two volumes present a total of 187 revised full papers selected from 291 submissions In accordance with the conference the books are devoted to new methodologies knowledge modeling and hybrid techniques The papers explore applications from virtually all subareas of AI including knowledge based systems fuzzyness and uncertainty formal reasoning neural information processing multiagent systems perception robotics natural language processing machine learning supervision and control systems etc **Methodology and Tools in Knowledge-Based Systems** ,1998 **A Treatise on Good Robots** Krzysztof Tchon, 2017-09-08 This volume investigates the ways emerging technologies in the fields of robotics and bio robotics are influencing society It necessarily considers both philosophical and technological study of robots including what it means for robots to exist as good and moral entities and how they benefit humans and enhance their quality of life Contributors address artificial intelligence and social functions as well as technical matters Chapters are wide ranging and consider robots in science fiction the need for designers to create moral robots specific technology and the development of biological robots Also addressed are robotic technologies already enhancing human bodies such as exoskeletons that allow paraplegics to walk The contributors foresee robots becoming involved not only in mundane domestic tasks such as washing dishes but also in providing health care to the disabled and companionship to the elderly This volume offers exciting philosophical reflections that unveil new connections between robotics and praxiology and their practical applications *Validation and Verification of Knowledge Based Systems* Anca Vermesan, Frans Coenen, 2013-04-17 Knowledge based KB technology is being applied to complex problem solving and critical tasks in many application domains Concerns have naturally arisen as to the dependability of knowledge based systems KBS As with any software attention to quality and safety must be paid throughout development of a KBS and rigorous verification and validation V V techniques must be employed Research in V V of KBS has emerged as a distinct field only in the last decade and is intended to address issues associated with quality and safety aspects of KBS and to credit such applications with the same degree of dependability as conventional applications In recent years V V of KBS has been the topic of annual workshops associated with the main AI conferences such as AAAI IJACI and ECAI Validation and Verification of Knowledge Based Systems contains a collection of papers dealing with all aspects of KBS V V presented at the Fifth European Symposium on Verification and Validation of Knowledge Based Systems and Components EUROVAV 99 which was held in Oslo in the summer of 1999 and was sponsored by Det Norske Veritas and the British Computer Society s Specialist Group on Expert Systems SGES Knowledge Based Systems S. G. Tzafestas, 1997 The field of knowledge based systems KBS has expanded enormously during the last years and many important techniques and tools are currently available Applications of KBS range from

medicine to engineering and aerospace This book provides a selected set of state of the art contributions that present advanced techniques tools and applications These contributions have been prepared by a group of eminent researchers and professionals in the field The theoretical topics covered include knowledge acquisition machine learning genetic algorithms knowledge management and processing under uncertainty conflict detection and resolution structured knowledge architectures and natural language based man machine communication The Applications include Real time decision support system fault diagnosis quality assessment manufacturing production robotic assembly and robotic welding The reader can save considerable time in searching the scattered literature in the field and can find here a powerful set of how to do issues and results

Information Modelling and Knowledge Bases XII Hannu Jaakkola,Hannu Kangassalo,Eiji Kawaguchi,2001 This is the 12th volume in a series on information modelling and knowledge bases The topics of the articles cover a wide variety of themes in the domain of information modelling design and specification of information systems and knowledge bases ranging from foundations and theories to systems construction and application studies The contributions in this volume represent the following major themes models in intelligent activity concept modelling and conceptual modelling conceptual modelling and information requirements specification collections of concepts knowledge base design and database design human computer interaction and modelling software engineering and modelling and applications

Intelligent Problem Solving. Methodologies and Approaches Rasiah Logananthara,Günther Palm,Moonis Ali,2003-07-31 The focus of the papers presented in these proceedings is on employing various methodologies and approaches for solving real life problems Although the mechanisms that the human brain employs to solve problems are not yet completely known we do have good insight into the functional processing performed by the human mind On the basis of the understanding of these natural processes scientists in the field of applied intelligence have developed multiple types of artificial processes and have employed them successfully in solving real life problems The types of approaches used to solve problems are dependant on both the nature of the problem and the expected outcome While knowledge based systems are useful for solving problems in well understood domains with relatively stable environments the approach may fail when the domain knowledge is either not very well understood or changing rapidly The techniques of data discovery through data mining will help to alleviate some problems faced by knowledge based approaches to solving problems in such domains Research and development in the area of artificial intelligence are influenced by opportunity needs and the availability of resources The rapid advancement of Internet technology and the trend of increasing bandwidths provide an opportunity and a need for intelligent information processing thus creating an excellent opportunity for agent based computations and learning Over 40% of the papers appearing in the conference proceedings focus on the area of machine learning and intelligent agents clear evidence of growing interest in this area

Fundamentals of Artificial Intelligence Research Jozef Kelemen,1991-08-28 This volume contains 6 invited lectures and 13 submitted contributions to the scientific programme of the international workshop

Fundamentals of Artificial Intelligence Research FAIR 91 held at Smolenice Castle Czechoslovakia September 8 12 1991 under the sponsorship of the European Coordinating Committee for Artificial Intelligence ECCAI FAIR 91 the first of an intended series of international workshops addresses issues which belong to the theoretical foundations of artificial intelligence considered as a discipline focused on concise theoretical description of some aspects of intelligence by tools and methods adopted from mathematics logic and theoretical computer science The intended goal of the FAIR workshops is to provide a forum for the exchange of ideas and results in a domain where theoretical models play an essential role It is felt that such theoretical studies their development and their relations to AI experiments and applications have to be promoted in the AI research community Proceedings of the Eighth International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'24), Volume 2 Sergey Kovalev, Igor Kotenko, Andrey Sukhanov, Yin Li, Yao Li, 2024-12-19 This book contains the works connected with the key advances in Intelligent Information Technologies for Industry presented at IITI 2024 the Eighth International Scientific Conference on Intelligent Information Technologies for Industry held on November 1 7 2024 in Harbin China The works were written by the experts in the field of applied artificial intelligence including topics such as Machine Learning Explainable AI Decision Making Fuzzy Logic Multi Agent and Bioinspired Systems including their modern applications The following industrial implementations were touched railway automation cyber security intelligent medical systems navigation systems The editors believe that this book will be helpful for all scientists and engineers interested in the modern state of applied artificial intelligence Artificial Intelligence in Design D.T. Pham, 2012-12-06 Computers have been employed for some time in engineering design mainly as numerical or graphical tools to assist analysis and draughting The advent of the technology of artificial intelligence and expert systems has enabled computers to be applied to less deterministic design tasks which require symbolic manipulation and reasoning instead of only routine number processing This book presents recent examples of such applications focusing on mechanical and manufacturing design The term design is interpreted here in its wider sense to include creative activities such as planning The book covers a wide spectrum of design operations ranging from component and product design through to process tooling and systems design Its aim is to expose researchers engineers and engineering designers to several developments in the emerging field of intelligent CAD and to alert them of the possibilities and opportunities in this exciting field

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