

# ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEM

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# Second International Expert Systems

**Roman R. Laczkovich**



## **Second International Expert Systems:**

Proceedings of Second International Conference on Sustainable Expert Systems Subarna Shakya, Ke-Lin Du, Wang Haoxiang, 2022-02-26 This book features high quality research papers presented at the 2nd International Conference on Sustainable Expert Systems ICSES 2021 held in Nepal during September 17-18, 2021. The book focusses on the research information related to artificial intelligence sustainability and expert systems applied in almost all the areas of industries, government sectors and educational institutions worldwide. The main thrust of the book is to publish the conference papers that deal with the design, implementation, development, testing and management of intelligent and sustainable expert systems and also to provide both theoretical and practical guidelines for the deployment of these systems. **Proceedings of the Second International Scientific Conference "Intelligent Information Technologies for Industry" (IITI'17)** Ajith Abraham, Sergey Kovalev, Valery Tarasov, Vaclav Snasel, Margreta Vasileva, Andrey Sukhanov, 2017-09-30 This volume of *Advances in Intelligent Systems and Computing* highlights key scientific achievements and innovations in all areas of automation, informatization, computer science and artificial intelligence. It gathers papers presented at the IITI 2017, the Second International Conference on Intelligent Information Technologies for Industry, which was held in Varna, Bulgaria, on September 14-16, 2017. The conference was jointly co-organized by Technical University of Varna, Bulgaria; Technical University of Sofia, Bulgaria; VSB Technical University of Ostrava, Czech Republic; and Rostov State Transport University, Russia. The IITI 2017 brought together international researchers and industrial practitioners interested in the development and implementation of modern technologies for automation, informatization, computer science, artificial intelligence, transport and power, electrical engineering. In addition to advancing both fundamental research and innovative applications, the conference is intended to establish a new dissemination platform and an international network of researchers in these fields.

**Proceedings, the Second International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems**, 1989 *New Computing Techniques In Physics Research II - Proceedings Of The Second International Workshop On Software Engineering, Artificial Intelligence And Expert Systems In High Energy And Nuclear Physics* Denis Perret-Gallix, 1992-09-04 A vivid example of the growing need for frontier physics experiments to make use of frontier technology is in the field of Artificial Intelligence (AI) and related themes. By AI we are referring here to the use of computers to deal with complex objects in an environment based on specific rules. Symbolic Manipulation to assist groups of developers in the design, coding and maintenance of large packages. Software Engineering to mimic human reasoning and strategy with knowledge bases to make a diagnosis of equipment. Expert Systems or to implement a model of the brain to solve pattern recognition problems. Neural Networks. These techniques developed some time ago by AI researchers are confronted by down to earth problems arising in high energy and nuclear physics. However, similar situations exist in other big sciences such as space research or plasma physics and common solutions can be applied. The magnitude and complexity

of the experiments on the horizon for the end of the century clearly call for the application of AI techniques Solutions are sought through international collaboration between research and industry *Expert Systems* Cornelius T.

Leondes,2001-09-26 This six volume set presents cutting edge advances and applications of expert systems Because expert systems combine the expertise of engineers computer scientists and computer programmers each group will benefit from buying this important reference work An expert system is a knowledge based computer system that emulates the decision making ability of a human expert The primary role of the expert system is to perform appropriate functions under the close supervision of the human whose work is supported by that expert system In the reverse this same expert system can monitor and double check the human in the performance of a task Human computer interaction in our highly complex world requires the development of a wide array of expert systems Expert systems techniques and applications are presented for a diverse array of topics including Experimental design and decision support The integration of machine learning with knowledge acquisition for the design of expert systems Process planning in design and manufacturing systems and process control applications Knowledge discovery in large scale knowledge bases Robotic systems Geographic information systems Image analysis recognition and interpretation Cellular automata methods for pattern recognition Real time fault tolerant control systems CAD based vision systems in pattern matching processes Financial systems Agricultural applications Medical diagnosis Expert Systems in Construction and Structural Engineering H. Adeli,2003-09-02 Expert Systems in Construction and Structural Engineering is a valuable reference both for researchers interested in the state of the art of civil engineering expert systems and practitioners interested in exploring the practical applications of this new technology

**International Expert Systems Conference** ,1987 Empirical Foundations of Information and Software Science V Pranas Zunde,D. Hocking,2012-12-06 This is the proceedings of the Sixth Symposium on Empirical Foundations of Information and Software Sciences EFISS which was held in Atlanta Georgia on October 19 21 1988 The purpose of the symposia is to explore subjects and methods of scientific inquiry which are of common interest to information and software sciences and to identify directions of research that would benefit from the mutual interaction of these two disciplines The main theme of the sixth symposium was modeling in information and software engineering with emphasis on methods and tools of modeling The symposium covered topics such as models of individual and organizational users of information systems methods of selecting appropriate types of models for a given type of users and a given type of tasks deriving models from records of system usage modeling system evolution constructing user and task models for adaptive systems and models of system architectures This symposium was sponsored by the School of Information and Computer Science of the Georgia Institute of Technology and by the U S Army Institute for Research in Management Information Communications and Computer Sciences AIRMICS 17le Editors vii CONTENTS 1 I KEYNOTE ADDRESS *A Single-station Weather Forecasting Expert System* W. H. Jasperson,1987 This report describes the development of an early prototype expert system for the

classical single station weather forecasting problem The skills required to maximize forecast quality based on such limited data are being lost though they continue to have application to certain military scenarios which include communications interruptions Knowledge for the expert system was obtained from a meteorologist experienced in single station weather forecasting by working through case study data The prototype was developed on a microcomputer and uses forward and backward chaining rules frames and other functions and procedures written in LISP The expert system is able to emulate the expert for a several day case study used in the development although much more work must be done to make the system useful for the general meteorological situation

**Expert Systems and Geographic Information Systems for Impact Assessment** Agustin Rodriguez-Bachiller, John Glasson, 2004-08-12 Impact Assessment is becoming part and parcel of an increasing number of development proposals in the UK and Europe As the practice of Impact Assessment develops it becomes more standardized and good practice starts to be defined However the quality of Impact Assessment is still far from satisfactory Expert Systems and GIS for Impact Assessment

Intelligent Software for Chemical Analysis L.M.C. Buydens, P.J. Schoenmakers, 1993-09-03 Various emerging techniques for automating intelligent functions in the laboratory are described in this book Explanations on how systems work are given and possible application areas are suggested The main part of the book is devoted to providing data which will enable the reader to develop and test his own systems The emphasis is on expert systems however promising developments such as self adaptive systems neural networks and genetic algorithms are also described The book has been written by chemists with a great deal of practical experience in developing and testing intelligent software and therefore offers first hand knowledge Laboratory staff and managers confronted with commercial intelligent software will find information on the functioning possibilities and limitations thereof enabling them to select and use modern software in an optimum fashion Finally computer scientists and information scientists will find a wealth of data on the application of contemporary artificial intelligence techniques

Knowledge Engineering John Debenham, 2012-12-06 This monograph describes a methodology for the design of knowledge based systems A knowledge based system contains knowledge as well as information and data The information and data in such a system can be modelled and implemented as a database The knowledge in such a system can be implemented either in a programming language or in an expert systems shell This methodology has two distinguishing features First it is unified A unified methodology represents the data information and knowledge in a homogeneous manner as well as the relationships between them Second the methodology builds a maintenance mechanism into the design In knowledge engineering terms the representation used by this methodology to model knowledge bases applies equally to databases In database terms the representation used by this methodology to model databases applies equally to the database rules The unified methodology unifies the design of the knowledge base component and the database component Unification is achieved in five senses

*Hybrid Intelligent Systems* Larry R. Medsker, 2012-12-06 Hybrid Intelligent Systems summarizes the strengths and weaknesses of five

intelligent technologies fuzzy logic genetic algorithms case based reasoning neural networks and expert systems reviewing the status and significance of research into their integration Engineering and scientific examples and case studies are used to illustrate principles and application development techniques The reader will gain a clear idea of the current status of hybrid intelligent systems and discover how to choose and develop appropriate applications The book is based on a thorough literature search of recent publications on research and development in hybrid intelligent systems the resulting 50 page reference section of the book is invaluable The book starts with a summary of the five major intelligent technologies and of the issues in and current status of research into them Each subsequent chapter presents a detailed discussion of a different combination of intelligent technologies along with examples and case studies Four chapters contain detailed case studies of working hybrid systems The book enables the reader to Describe the important concepts strengths and limitations of each technology Recognize and analyze potential problems with the application of hybrid systems Choose appropriate hybrid intelligent solutions Understand how applications are designed with any of the approaches covered Choose appropriate commercial development shells or tools An invaluable reference source for those who wish to apply intelligent systems techniques to their own problems     Expert Systems, Decision Support Systems and Computer-assisted Instruction for Water Resource Management Bonnie Emmert,1993     *Expert Systems, Decision Support Systems and Computer-Assisted Instruction for Water Resource Management* Joseph Makuch,1995-09 Provides 255 citations on the topic of water resource management wastewater expert systems artificial intelligence related topics Most citations have annotations Includes a subject author index     Spatial Economic Science Aura Reggiani,2012-12-06 With the dawn of the twenty first century comes the awareness that current rapid political economic social and technological transformations will affect our of living by producing new forms of information communications common way market work style and leisure In this context human behaviour will certainly change its fixed parameters It is likely that the relationships between internal structures and external influences between individual components and collective behaviour as well as between multi scale networks and interrelated dynamics will show spatio temporal patterns which will be difficult to predict by means of our usual tools As a consequence academic research is increasingly being required to play an active role in addressing new ways of understanding and forecasting the sets of interacting structures ranging from the technical to the organizational and from the social to the economic and political levels while at the same time incorporating concerns about the new economy environment society information and technology It is now evident that social science especially spatial and economic science needs innovative paths together with continuous cross fertilization among the many disciplines involved In order to investigate these intriguing perspectives we seem to have embarked on an era of methodological reflections rather than developing strong theoretical foundations This volume aims to provide an overview of these new insights and frontiers for theoretical methodological studies and research applications in the space economy     *Proceedings of the Second*

*International Conference on Mechatronics and Automatic Control* Wego Wang, 2015-08-03 This book examines mechatronics and automatic control systems The book covers important emerging topics in signal processing control theory sensors mechanic manufacturing systems and automation The book presents papers from the second International Conference on Mechatronics and Automatic Control Systems held in Beijing China on September 20 21 2014 Examines how to improve productivity through the latest advanced technologies Covering new systems and techniques in the broad field of mechatronics and automatic control systems

*Fuzzy Systems: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2017-02-22 There are a myriad of mathematical problems that cannot be solved using traditional methods The development of fuzzy expert systems has provided new opportunities for problem solving amidst uncertainties Fuzzy Systems Concepts Methodologies Tools and Applications is a comprehensive reference source on the latest scholarly research and developments in fuzzy rule based methods and examines both theoretical foundations and real world utilization of these logic sets Featuring a range of extensive coverage across innovative topics such as fuzzy logic rule based systems and fuzzy analysis this is an essential publication for scientists doctors engineers physicians and researchers interested in emerging perspectives and uses of fuzzy systems in various sectors

*Expert systems for technical fault diagnosis* Roman R. Laczkovich, 1990-01-01 First published in 1990 and now available unchanged in English this book offers a rare in depth look at diagnostic expert systems DXPS at the moment they moved from laboratory prototypes into real world use Written for both scientists and practitioners it bridges computer science engineering and business management The author examines the challenges of creating and integrating DXPS beyond pure IT questions sourcing or building knowledge bases embedding systems into operational environments adapting maintenance strategies and addressing legal data protection and security concerns The work demystifies expert systems by clearly defining their actual capabilities and limits Three categories of diagnostic problems are identified and tailored DXPS types are designed for each The result is a practical and conceptual framework that remains relevant today especially for those exploring hybrid AI approaches that combine modern machine learning with transparent rule based reasoning This edition preserves the original text while contextualizing it in a new foreword that links early expert system concepts to the AI architectures of the 21st century

**A Pragmatic Legal Expert System** James Popple, 1996-05-21 Most legal expert systems attempt to implement complex models of legal reasoning This book argues that a complex model is unnecessary It advocates a simpler pragmatic approach in which the utility of a legal expert system is evaluated by reference not to the extent to which it simulates a lawyer's approach to a legal problem but to the quality of its predictions and of its arguments The author describes the development of a legal expert system called SHYSTER which takes a pragmatic approach to case law He discusses the testing of SHYSTER in four different and disparate areas of case law and draws conclusions about the advantages and limitations of this approach to legal expert system development Chapter 1 presents a critical analysis of previous work of

relevance to the development of legal expert systems Chapter 2 explains the pragmatic approach that was adopted in the development of SHYSTER The implementation of SHYSTER is detailed using examples in chapter 3 Chapter 4 describes the testing of SHYSTER and conclusions are drawn from those tests in chapter 5 Examples of SHYSTER s output are provided in appendices



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