

130: Rule-based Expert Systems

Ajith Abraham

Oklahoma State University, Stillwater, OK, USA

1 Problem Solving Using Heuristics	909
2 What are Rule-based Systems?	910
3 Inference Engine in Rule-based Systems	911
4 Expert System Development	911
5 Fuzzy Expert Systems	912
6 Modeling Fuzzy Expert Systems	914
7 Illustration of Fuzzy Expert System Design	914
8 Adaptation of Fuzzy Inference Systems	918
9 Summary	918
References	919

1 PROBLEM SOLVING USING HEURISTICS

A general introduction to artificial intelligence methods of measurement signal processing is given in **Article 128, Nature and Scope of AI Techniques, Volume 2**.

Problem solving is the process of finding a solution when the path leading to that solution is uncertain. Even though we are familiar with several problem-solving techniques, in the real world, sometimes many problems cannot be solved by a technique we are familiar with.

Surprisingly, for some complicated problems, no straightforward solution technique is known at all. For these problems, heuristic solution techniques may be the only alternative. A heuristic can be simplified as a strategy that is powerful and general, but not absolutely guaranteed to provide best solutions.

Heuristic methods are very problem specific. Previous experience and some general rules – often called *rules of*

thumb – could help find good heuristics easier. Humans use heuristics a great deal in their problem solving. Of course, if the heuristic does fail, it is necessary for the problem solver to either pick another heuristic, or know that it is appropriate to give up.

Choosing random solutions, adopting greedy approaches, evolving the basic heuristics for finding better heuristics are just some of the popular approaches used in heuristic problem solving (Michalewicz and Fogel, 1999).

Heuristic problem solving involves finding a set of rules, or a procedure, that finds satisfactory solutions to a specific problem. A good example is finding one's way through a maze. To make the way toward the final goal, a step-by-step movement is necessary. Very often false moves are made but in most cases we solve the problem without much difficulty. For the maze problem, a simple heuristic rule could be "*choose the direction that seems to make progress*". Another good example is the job shop scheduling problem wherein the task is to schedule J_n independent jobs, where $n = [1, 2, \dots, N]$ on R_m heterogeneous resources and $m = [1, 2, \dots, M]$, with an objective of minimizing the completion time of all the jobs and utilizing all the resources effectively.

Each job J_n has processing requirement P_j cycles and resource R_m has speed of S_j cycles/unit time. Any job J_n has to be processed in resource R_m , until completion. If C_j is the completion time and the last job j finishes processing, then we define $C_{\max} = \max[C_j, j = 1, \dots, N]$, the make-span and $\sum C_j$, as the flow-time.

The task is to find an optimal schedule that optimizes the flow-time and make-span. Some simple heuristic rules to achieve this are by scheduling the Shortest Job on the Fastest Resource (SJFR), which would minimize $\sum C_j$ or by

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**John K. C. Kingston, University of
Edinburgh. Artificial Intelligence
Applications Institute**



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Innovations in Intelligent Systems Ajith Abraham, Berend Jan van der Zwaag, 2013-06-29 *Innovations in Intelligent Systems* is a rare collection of the latest developments in intelligent paradigms such as knowledge based systems computational intelligence and hybrid combinations as well as practical applications in engineering science business and commerce The book covers central topics such as intelligent multi agent systems data mining case based reasoning and rough sets Essential techniques to the development of intelligent machines are investigated such as pattern recognition and classification machine learning natural language processing grammar evolutionary schemes fuzzy neural procedures and intelligent vision The book also includes useful applications ranging from medical diagnosis and technical medical language translation to power demand forecasting and manufacturing plants Due to its depth and breadth of the coverage and the usefulness of the techniques and applications this book is a valuable reference for experts and students alike Soft Computing Models in Industrial and Environmental Applications Václav Snášel, Ajith Abraham, Emilio S. Corchado, 2012-08-23 This volume of *Advances in Intelligent and Soft Computing* contains accepted papers presented at SOCO 2012 held in the beautiful and historic city of Ostrava Czech Republic in September 2012 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a thorough peer review process the SOCO 2012 International Program Committee selected 75 papers which are published in these conference proceedings and represents an acceptance rate of 38% In this relevant edition a special emphasis was put on the organization of special sessions Three special sessions were organized related to relevant topics as Soft computing models for Control Theory Applications in Electrical Engineering Soft computing models for biomedical signals and data processing and Advanced Soft Computing Methods in Computer Vision and Data Processing The selection of papers was extremely rigorous in order to maintain the high quality of the conference and we would like to thank the members of the Program Committees for their hard work in the reviewing process This is a crucial process to the creation of a high standard conference and the SOCO conference would not exist without their help

Tree-Structure based Hybrid Computational Intelligence Yuehui Chen, Ajith Abraham, 2009-11-27 Research in computational intelligence is directed toward building thinking machines and improving our understanding of intelligence As evident the ultimate achievement in this field would be to mimic or exceed human cognitive capabilities including reasoning recognition creativity emotions understanding learning and so on In this book the authors illustrate an hybrid computational intelligence framework and its applications for various problem solving tasks Based on tree structure based encoding and the specific function operators the models can be flexibly constructed and evolved by using simple computational intelligence techniques The main idea behind this model is the flexible neural tree which is very adaptive accurate and efficient Based on the pre defined instruction operator sets a flexible neural tree model can be created and evolved This volume comprises of 6

chapters including an introductory chapter giving the fundamental definitions and the last Chapter provides some important research challenges Academics scientists as well as engineers engaged in research development and application of computational intelligence techniques and data mining will find the comprehensive coverage of this book invaluable

Recent Advances in Intelligent Paradigms and Applications Ajith Abraham, 2013-03-20 Digital systems that bring together the computing capacity for processing large bodies of information with the human cognitive capability are called intelligent systems Building these systems has become one of the great goals of modern technology This goal has both intellectual and economic incentives The need for such intelligent systems has become more intense in the face of the global connectivity of the internet There has become an almost insatiable requirement for instantaneous information and decision brought about by this confluence of computing and communication This requirement can only be satisfied by the construction of innovative intelligent systems A second and perhaps an even more significant development is the great advances being made in genetics and related areas of biotechnology Future developments in biotechnology may open the possibility for the development of a true human silicon interaction at the micro level neural and cellular bringing about a need for intelligent systems What is needed to further the development of intelligent systems are tools to enable the representation of human cognition in a manner that allows formal manipulation The idea of developing such an algebra goes back to Leibniz in the 17th century with his dream of a calculus ratiocinator It wasn't until two hundred years later beginning with the work of Boole Cantor and Frege that a formal mathematical logic for modeling human reasoning was developed The introduction of the modern digital computer during the Second World War by von Neumann and others was a culmination of this intellectual trend

Intelligent Systems Design and Applications Ajith Abraham, Niketa Gandhi, Thomas Hanne, Tzung-Pei Hong, Tatiane Nogueira Rios, Weiping Ding, 2022-03-26 This book highlights recent research on intelligent systems and nature inspired computing It presents 132 selected papers from the 21st International Conference on Intelligent Systems Design and Applications ISDA 2021 which was held online The ISDA is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry Including contributions by authors from 34 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering

Hybrid Artificial Intelligent Systems Emilio S. Corchado Rodriguez, Vaclav Snasel, Ajit Abraham, Michal Wozniak, Manuel Grana, Sung-Bae Cho, 2012-03-15 The two LNAI volumes 7208 and 7209 constitute the proceedings of the 7th International Conference on Hybrid Artificial Intelligent Systems HAIS 2012 held in Salamanca Spain in March 2012 The 118 papers published in these proceedings were carefully reviewed and selected from 293 submissions They are organized in topical sessions on agents and multi agents systems HAIS applications cluster analysis data mining and knowledge discovery evolutionary computation learning algorithms systems man and cybernetics by HAIS workshop methods of classifier fusion HAIS for computer security

HAISFCS data mining data preparation and analysis hybrid artificial intelligence systems in management of production systems hybrid artificial intelligent systems for ordinal regression hybrid metaheuristics for combinatorial optimization and modelling complex systems hybrid computational intelligence and lattice computing for image and signal processing and nonstationary models of pattern recognition and classifier combinations **Intelligent Systems Design and Applications**

Ana Maria Madureira, Ajith Abraham, Dorabela Gamboa, Paulo Novais, 2017-02-22 This book comprises selected papers from the 16th International Conference on Intelligent Systems Design and Applications ISDA 16 which was held in Porto Portugal from December 1 to 16 2016 ISDA 2016 was jointly organized by the Portugal based Instituto Superior de Engenharia do Porto and the US based Machine Intelligence Research Labs MIR Labs to serve as a forum for the dissemination of state of the art research and development of intelligent systems intelligent technologies and applications The papers included address a wide variety of themes ranging from theories to applications of intelligent systems and computational intelligence area and provide a valuable resource for students and researchers in academia and industry alike Rule-based Expert Systems and Beyond John K. C. Kingston, University of Edinburgh. Artificial Intelligence Applications Institute, 1987

Rule-based expert systems Bruce G. Buchanan, 1985 Frontiers of Expert Systems Chilukuri Krishna Mohan, 2012-12-06 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 **Expert Systems** Richard Forsyth, 1989 This practical guide provides an introduction for people who want to make use of expert systems It covers some of the practical experiences gained since the emergence of expert systems and their application to real world problems

Introduction to Expert Systems James P. Ignizio, 1991 **RULE BASED EXPERT SYSTEMS: A PRACTICAL INTRODUCTION**, 1993 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 Principles of rule based expert systems B. G. Buchanan, R. O. Duda, Stanford University. Computer Science Department, 1982 *An Introduction to Expert Systems* Robert J. Mockler, Dorothy G. Dologite, 1992 **Introduction to Expert Systems** Peter Jackson, 1986 *Expert Systems* Joseph C. Giarratano, Gary Riley, 1989 The new edition of this market leading text builds upon the blend of expert systems theory and application established in earlier editions **Expert Systems For Experts** Kamran Parsaye, Mark Chignell, 1988-03-18 This introduction to the design of expert systems is written in an easy to read style and offers practical examples for each new topic presented Emphasis is less on the intricacies of programming language more on explanation Defines what expert systems are and discusses knowledge representation and inference Chapters also cover logic two valued inference inexact and semi exact reasoning advanced tools and topics and draw on studies of human cognition to motivate technical definitions Each chapter has an introduction and a summary and provides suggestions for further reading Contains student projects An Introduction to Expert Systems Jay Liebowitz, 1988

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Table of Contents 130 Rule Based Expert Systems Ajith Abraham

1. Understanding the eBook 130 Rule Based Expert Systems Ajith Abraham
 - The Rise of Digital Reading 130 Rule Based Expert Systems Ajith Abraham
 - Advantages of eBooks Over Traditional Books
2. Identifying 130 Rule Based Expert Systems Ajith Abraham
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 130 Rule Based Expert Systems Ajith Abraham
 - User-Friendly Interface
4. Exploring eBook Recommendations from 130 Rule Based Expert Systems Ajith Abraham
 - Personalized Recommendations

- 130 Rule Based Expert Systems Ajith Abraham User Reviews and Ratings
- 130 Rule Based Expert Systems Ajith Abraham and Bestseller Lists
- 5. Accessing 130 Rule Based Expert Systems Ajith Abraham Free and Paid eBooks
 - 130 Rule Based Expert Systems Ajith Abraham Public Domain eBooks
 - 130 Rule Based Expert Systems Ajith Abraham eBook Subscription Services
 - 130 Rule Based Expert Systems Ajith Abraham Budget-Friendly Options
- 6. Navigating 130 Rule Based Expert Systems Ajith Abraham eBook Formats
 - ePub, PDF, MOBI, and More
 - 130 Rule Based Expert Systems Ajith Abraham Compatibility with Devices
 - 130 Rule Based Expert Systems Ajith Abraham Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 130 Rule Based Expert Systems Ajith Abraham
 - Highlighting and Note-Taking 130 Rule Based Expert Systems Ajith Abraham
 - Interactive Elements 130 Rule Based Expert Systems Ajith Abraham
- 8. Staying Engaged with 130 Rule Based Expert Systems Ajith Abraham
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 130 Rule Based Expert Systems Ajith Abraham
- 9. Balancing eBooks and Physical Books 130 Rule Based Expert Systems Ajith Abraham
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 130 Rule Based Expert Systems Ajith Abraham
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 130 Rule Based Expert Systems Ajith Abraham
 - Setting Reading Goals 130 Rule Based Expert Systems Ajith Abraham
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 130 Rule Based Expert Systems Ajith Abraham
 - Fact-Checking eBook Content of 130 Rule Based Expert Systems Ajith Abraham

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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