

STUDIES IN FUZZINESS
AND SOFT COMPUTING

in Fuzziness and Soft Computing

Vincenzo Loia
Salvatore Sena
Editors

Soft Computing Agents

New Trends for Designing
Autonomous Systems



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Soft Computing Agents New Trends For Designing Autonomous Systems

Yaochu Jin



Soft Computing Agents New Trends For Designing Autonomous Systems:

Soft Computing Agents Salvatore Sessa, 2001-08-28 In the existing literature the intersection of agent technology with soft computing is a very recent and attractive issue The book is devoted to a unifying perspective of this topic It contains contributions by well known authors whose expertise is universally recognized in these crossing areas Particular emphasis is devoted to advanced research projects involved with Web related technologies Fundamental topics explored in this volume are formal theories and logics to represent and handle imprecise communication acts among communities of agents soft computing approaches to define distributed problem solving techniques to represent and reason about large scale control systems decomposition of a complex system into autonomous or semiautonomous agents through evolutionary models enrichment of agent programming paradigm for cooperative soft computing processing **Soft Computing Agents**

Salvatore Sessa, 2012-08-13 In the existing literature the intersection of agent technology with soft computing is a very recent and attractive issue The book is devoted to a unifying perspective of this topic It contains contributions by well known authors whose expertise is universally recognized in these crossing areas Particular emphasis is devoted to advanced research projects involved with Web related technologies Fundamental topics explored in this volume are formal theories and logics to represent and handle imprecise communication acts among communities of agents soft computing approaches to define distributed problem solving techniques to represent and reason about large scale control systems decomposition of a complex system into autonomous or semiautonomous agents through evolutionary models enrichment of agent programming paradigm for cooperative soft computing processing Soft Computing Agents Salvatore Sessa, 2013-03-20 In the existing

literature the intersection of agent technology with soft computing is a very recent and attractive issue The book is devoted to a unifying perspective of this topic It contains contributions by well known authors whose expertise is universally recognized in these crossing areas Particular emphasis is devoted to advanced research projects involved with Web related technologies Fundamental topics explored in this volume are formal theories and logics to represent and handle imprecise communication acts among communities of agents soft computing approaches to define distributed problem solving techniques to represent and reason about large scale control systems decomposition of a complex system into autonomous or semiautonomous agents through evolutionary models enrichment of agent programming paradigm for cooperative soft computing processing Soft Computing Agents Vincenzo Loia, 2002 Annotation In the last thirty years the researchers

involved in the design of smart systems have continuously provided methodologies and technologies to deal human and artificial behaviours The study of intelligent machines is attested by an enormous and growing literature and by a remarkable spin off in wide range of innovative projects Nevertheless these efforts intelligent based systems design still remain an open problem especially from a performances as well as complexity viewpoints Recent advances in networking technology and the ubiquity of the Internet open new perspectives in software application improvement This new scenario demands new

paradigms to cope with computational models characterized by an unceasing dynamism strong decentralization and high unpredictability The exciting potential of agent technology has deeply marked these last years as a winning strategy to address the issues cited before Agents or Multi Agent Systems sketch intelligent behaviours by describing and managing computational activities shared over communities of large grain entities Even though an agent owns a partial knowledge and a reduced deductive ability it may acquire wider competences thanks to rich interaction cooperation schemas It is clear that agent technology better fits the aspects of all those problems which can be depicted in terms of cooperating endeavours Soft Computing and in particular Fuzzy Technology may play an important role in the design of smart agents Promising benefits derive from well founded soft computing oriented approaches in order to better manage the behavioural models of the agents especially when the interactions occur in an environment characterized by imprecision uncertainty and partial truth The book intends to focus the contributions into three basic directions to present the state of the art in the development of soft computing based agents to examine the role of soft computing based technology in various facets of agent design problem solving autonomy adaptivity reactivity communication interaction to cross fertilize ideas on the soft computing perspective to the development of agent based intelligent information systems Advances in Soft Computing - AFSS 2002 Nikhil R. Pal, Michio Sugeno, 2003-07-31 It is our great pleasure to welcome you all to the 2002 AFSS International Conference on Fuzzy Systems AFSS 2002 to be held in Calcutta the great City of Joy AFSS 2002 is the fth conference in the series initiated by the Asian Fuzzy Systems Society AFSS AFSS 2002 is jointly being organized by the Indian Statistical Institute ISI and Jadavpur University JU Like previous conferences in this series we are sure AFSS 2002 will provide a forum for fruitful interaction and exchange of ideas between the participants from all over the globe The present conference covers all major facets of soft computing such as fuzzy logic neural networks genetic algorithms including both theories and applications We hope this meeting will be enjoyable academically and otherwise We are thankful to the members of the International Program Committee and the Area Chairs for extending their support in various forms to make a strong technical program Each submitted paper was reviewed by at least three referees and in some cases the revised versions were again checked by the referees As a result of this tough screening process we could select only about 50% of the submitted papers We again express our sincere thanks to all referees for doing a great job We are happy to note that 19 different countries from all over the globe are represented by the authors thereby making it a truly international conference We are proud to have a list of distinguished speakers including Profs Z Pawlak J Bezdek D Dubois and T Yamakawa Advanced Fuzzy Systems Design and Applications Yaochu Jin, 2012-12-06 Fuzzy rule systems have found a wide range of applications in many fields of science and technology Traditionally fuzzy rules are generated from human expert knowledge or human heuristics for relatively simple systems In the last few years data driven fuzzy rule generation has been very active Compared to heuristic fuzzy rules fuzzy rules generated from data are able to extract more profound knowledge for more complex systems This book presents a number of

approaches to the generation of fuzzy rules from data ranging from the direct fuzzy inference based to neural net works and evolutionary algorithms based fuzzy rule generation Besides the approximation accuracy special attention has been paid to the interpretability of the extracted fuzzy rules In other words the fuzzy rules generated from data are supposed to be as comprehensible to human beings as those generated from human heuristics To this end many aspects of interpretability of fuzzy systems have been discussed which must be taken into account in the data driven fuzzy rule generation In this way fuzzy rules generated from data are intelligible to human users and therefore knowledge about unknown systems can be extracted

Agent Autonomy Henry Hexmoor, Cristiano Castelfranchi, Rino Falcone, 2012-12-06 Autonomy is a characterizing notion of agents and intuitively it is rather unambiguous The quality of autonomy is recognized when it is perceived or experienced yet it is difficult to limit autonomy in a definition The desire to build agents that exhibit a satisfactory quality of autonomy includes agents that have a long life are highly independent can harmonize their goals and actions with humans and other agents and are generally socially adept Agent Autonomy is a collection of papers from leading international researchers that approximate human intuition dispel false attributions and point the way to scholarly thinking about autonomy A wide array of issues about sharing control and initiative between humans and machines as well as issues about peer level agent interaction are addressed

Rough-Neural Computing Sankar Kumar Pal, Lech Polkowski, 2012-12-06 Soft computing comprises various paradigms dedicated to approximately solving real world problems e g in decision making classification or learning among these paradigms are fuzzy sets rough sets neural networks genetic algorithms and others It is well understood now in the soft computing community that hybrid approaches combining various paradigms are very promising approaches for solving complex problems Exploiting the potential and strength of both neural networks and rough sets this book is devoted to rough neuro computing which is also related to the novel aspect of computing based on information granulation in particular to computing with words It provides foundational and methodological issues as well as applications in various fields

Granular Computing Andrzej Bargiela, Witold Pedrycz, 2002-11-30 This book is about Granular Computing GC an emerging conceptual and of information processing As the name suggests GC concerns computing paradigm processing of complex information entities information granules In essence information granules arise in the process of abstraction of data and derivation of knowledge from information Information granules are everywhere We commonly use granules of time seconds months years We granulate images millions of pixels manipulated individually by computers appear to us as granules representing physical objects In natural language we operate on the basis of word granules that become crucial entities used to realize interaction and communication between humans Intuitively we sense that information granules are at the heart of all our perceptual activities In the past several formal frameworks and tools geared for processing specific information granules have been proposed Interval analysis rough sets fuzzy sets have all played important role in knowledge representation and processing Subsequently information

granulation and information granules arose in numerous application domains Well known ideas of rule based systems dwell inherently on information granules Qualitative modeling being one of the leading threads of AI operates on a level of information granules Multi tier architectures and hierarchical systems such as those encountered in control engineering planning and scheduling systems all exploit information granularity We also utilize information granules when it comes to functionality granulation reusability of information and efficient ways of developing underlying information infrastructures

Moral Machines Wendell Wallach, Colin Allen, 2008-11-19 Moral Machines explores the development of computers and robots capable of making moral decisions Why do we need them Do we want computers and robots making moral decisions And if we do how can we make ethics computable The challenge of building moral machines forces one to think deeply about how humans make moral decisions

Involuntary Memory John Mace, 2008-04-15 Involuntary memory was identified by the pioneering memory researcher Hermann Ebbinghaus more than a century ago but it was not until very recently that cognitive psychologists began to study this memory phenomenon This book is the first to examine key topics and cutting edge research in involuntary memory Discusses topics such as involuntary memories in everyday life across the life span and in the laboratory the special ways in which involuntary memories sometimes manifest themselves and a number of theoretical treatments of the topic Presents innovative research that not only represents the starting point of the study of involuntary memory but also places it in such broader topics as autobiographical memory consciousness and memory aging and memory implicit and explicit memory depression and psychosis

Changes of Problem Representation Eugene Fink, 2013-03-20 The purpose of our research is to enhance the efficiency of AI problem solvers by automating representation changes We have developed a system that improves the description of input problems and selects an appropriate search algorithm for each given problem Motivation Researchers have accumulated much evidence on the importance of appropriate representations for the efficiency of AI systems The same problem may be easy or difficult depending on the way we describe it and on the search algorithm we use Previous work on the automatic improvement of problem descriptions has mostly been limited to the design of individual learning algorithms The user has traditionally been responsible for the choice of algorithms appropriate for a given problem We present a system that integrates multiple description changing and problem solving algorithms The purpose of the reported work is to formalize the concept of representation and to confirm the following hypothesis An effective representation changing system can be built from three parts a library of problem solving algorithms a library of algorithms that improve problem descriptions a control module that selects algorithms for each given problem

Biologically Inspired Robot Behavior Engineering Richard J. Duro, Jose Santos, Manuel Grana, 2013-06-05 The book presents an overview of current research on biologically inspired autonomous robotics from the perspective of some of the most relevant researchers in this area The book crosses several boundaries in the field of robotics and the closely related field of artificial life The key aim throughout the book is to obtain autonomy at different levels From the basic motor behavior

in some exotic robot architectures right through to the planning of complex behaviors or the evolution of robot control structures the book explores different degrees and definitions of autonomous behavior These behaviors are supported by a wide variety of modeling techniques structural grammars neural networks and fuzzy logic and evolution underlies many of the development processes Thus this text can be used by scientists and students interested in these areas and provides a general view of the field for a more general audience

Belief Functions in Business Decisions Rajendra P.

Srivastava, Theodore J. Mock, 2013-11-11 The book focuses on applications of belief functions to business decisions Section I introduces the intuitive conceptual and historical development of belief functions Three different interpretations the marginally correct approximation the qualitative model and the quantitative model of belief functions are investigated and rough set theory and structured query language SQL are used to express belief function semantics Section II presents applications of belief functions in information systems and auditing Included are discussions on how a belief function framework provides a more efficient and effective audit methodology and also the appropriateness of belief functions to represent uncertainties in audit evidence The third section deals with applications of belief functions to mergers and acquisitions financial analysis of engineering enterprises forecast demand for mobile satellite services modeling financial portfolios and economics

Adaptive Multimedia Retrieval

Andreas Nürnberger, Marcin Detyniecki, 2004-06-16 This book constitutes the thoroughly refereed post proceedings of the First International Workshop on Adaptive Multimedia Retrieval AMR 2003 held in Hamburg Germany in September 2003 The 12 revised full papers presented were carefully selected during two rounds of reviewing and improvement Also included are three invited papers by leading researchers in the area to provide introductory and background information and to complete coverage of the relevant aspects The papers are organized in topical sections on retrieval systems texts and ontologies feature extraction from video image retrieval and sound

Advances in Learning Classifier Systems Pier L. Lanzi, Wolfgang Stolzmann, Stewart W. Wilson, 2003-07-31

Learning classifier systems are rule based systems that exploit evolutionary computation and reinforcement learning to solve difficult problems They were introduced in 1978 by John H Holland the father of genetic algorithms and since then they have been applied to domains as diverse as autonomous robotics trading agents and data mining At the Second International Workshop on Learning Classifier Systems IWLCS 99 held July 13 1999 in Orlando Florida active researchers reported on the then current state of learning classifier system research and highlighted some of the most promising research directions The most interesting contributions to the meeting are included in the book Learning Classifier Systems From Foundations to Applications published as LNAI 1813 by Springer Verlag The following year the Third International Workshop on Learning Classifier Systems IWLCS 2000 held September 15 16 in Paris gave participants the opportunity to discuss further advances in learning classifier systems We have included in this volume revised and extended versions of thirteen of the papers presented at the workshop

Multiagent Learning Classifier System and Its Application to Hot Strip Mills Elias Hasnat, *Improving*

Knowledge Discovery through the Integration of Data Mining Techniques Usman, Muhammad, 2015-08-03 Data warehousing is an important topic that is of interest to both the industry and the knowledge engineering research communities Both data mining and data warehousing technologies have similar objectives and can potentially benefit from each other's methods to facilitate knowledge discovery Improving Knowledge Discovery through the Integration of Data Mining Techniques provides insight concerning the integration of data mining and data warehousing for enhancing the knowledge discovery process Decision makers academicians researchers advanced level students technology developers and business intelligence professionals will find this book useful in furthering their research exposure to relevant topics in knowledge discovery

Evolutionary Machine Learning Technique Elias Hasnat, **Applications of Learning Classifier Systems** Larry Bull, 2012-08-13 The field called Learning Classifier Systems is populated with romantics Why shouldn't it be possible for computer programs to adapt learn and develop while interacting with their environments In particular why not systems that like organic populations contain competing perhaps cooperating entities evolving together John Holland was one of the earliest scientists with this vision at a time when so called artificial intelligence was in its infancy and mainly concerned with preprogrammed systems that didn't learn that like organisms had sensors took Instead Holland envisaged systems actions and had rich self generated internal structure and processing In so doing he foresaw and his work prefigured such present day domains as reinforcement learning and embedded agents that are now displacing the older standard Af One focus was what Holland called classifier systems sets of competing rule like classifiers each a hypothesis as to how best to react to some aspect of the environment or to another rule The system embracing such a rule population would explore its available actions and responses rewarding and rating the active rules accordingly Then good classifiers would be selected and reproduced mutated and even crossed a la Darwin and genetics steadily and reliably increasing the system's ability to cope

Soft Computing Agents New Trends For Designing Autonomous Systems Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Soft Computing Agents New Trends For Designing Autonomous Systems**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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