Vincenzo Loia
Salvatore Sessa

Editors

Soft Computing Agents

New Trends for Designing
Autonomous Systems

Soft Computing Agents New Trends For Designing Autonomous Systems

Cyrus F. Nourani

Soft Computing Agents New Trends For Designing Autonomous Systems:

   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 In 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   Quality Assurance of Agent-Based and Self-Managed Systems Reiner Dumke,Steffen Mencke,Cornelius Wille,2009-08-26 The challenges in implementing intelligent and autonomous software systems remain the development of self adapting systems self healing applications corporate global creation and collaborated robotic teams With software agent technology widely recognized as a key approach in implementing such global infrastructure the importance of the role of   **Soft Computing Agents** Vincenzo Loia,2002 A study of soft computing agents It seeks to explore the development of soft computing based agents examine the role of soft computing based technology in facets of agent design and cross fertilise ideas on the soft computing perspective to the development of agent based systems   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   **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   *Biologically Inspired Robot Behavior Engineering* Richard J. Duro,Jose Santos,Manuel Grana,2003 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 **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 impor tance 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 im provement 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 中国机械工程学会机械设计与制造分会国际会议 ,2001 *Proceedings* ,2005 *American Book Publishing Record* ,2001 **Subject Guide to Books in Print** ,2001 21st International Computer Software and Applications Conference IEEE Computer Society,1997 This text on computer software and application covers such topics as processes supporting software development parallelism in petri net multimedia environment and applications object oriented technology metrics in software development security and compilation and formal networks **Intelligent Multimedia Computing Science** Cyrus F. Nourani,2005 Intelligent Multimedia Computing Science is an interdisciplinary field combining the arts sciences artificial intelligence computer science mathematics and the humanities The field presented is deeply rooted in Al mathematical logic and models modern communications computer and human sciences Academic digital media studies are at times a partnership among Arts and Sciences Computer Science and Mathematics The new fields encompass the intelligent and cognitive aspects of media arts and sciences exploring the technical cognitive and aesthetic bases to human multimedia intelligence and its computation the applications to business intelligence model discovery data mines and intelligent data bases and IT The monograph is a technical and practical book to the popular audience to the business minded professionals and to all groups wanting to be on an intelligent bearing to the new field *Proceedings of*

the Trends in Electronics Conference ,1998   **Proceedings of the ... IEEE International Conference on Fuzzy Systems** ,2004   **Soft Computing Agents** Salvatore Sessa,2014-01-15   **Agent-oriented Software Engineering ...** ,2002   **Runtime Support for Code Mobility in Distributed Systems** Bo Chen,2005   Proceedings of the 1998 ACM SIGMOD International Conference on Management of Data Laura Haas,Ashutosh Tiwary,1998   **Proceedings of the IASTED International Conference, Artificial Intelligence and Soft Computing, July 27 to August 1 1997, Banff, Canada** M. H. Hamza,International Association of Science and Technology for Development,1997

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