

AUTONOMY ORIENTED COMPUTING

***From Problem Solving to
Complex Systems Modeling***

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Kluwer Academic Publishers

Autonomy Oriented Computing From Problem Solving To Complex Systems Modeling

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Autonomy Oriented Computing From Problem Solving To Complex Systems Modeling:

Autonomy Oriented Computing Jiming Liu,XiaoLong Jin,Kwok Ching Tsui,2006-07-02 Autonomy Oriented Computing is a comprehensive reference for scientists engineers and other professionals concerned with this promising development in computer science It can also be used as a text in graduate undergraduate programs in a broad range of computer related disciplines including Robotics and Automation Amorphous Computing Image Processing Programming Paradigms Computational Biology etc Part One describes the basic concepts and characteristics of an AOC system and enumerates the critical design and engineering issues faced in AOC system development Part Two gives detailed analyses of methodologies and case studies to evaluate AOC used in problem solving and complex system modeling The final chapter outlines possibilities for future research and development Numerous illustrative examples experimental case studies and exercises at the end of each chapter of Autonomy Oriented Computing help particularize and consolidate the methodologies and theories presented

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Aspects of Natural Language Processing Malgorzata Marciniak,Agnieszka Mykowiecka,2009-10-01 For many years Leonard Bolc has played an important role in the Polish computer science

community He is especially known for his clear vision in the development of artificial intelligence inspiring research organizational and editorial achievements in areas such as e g logic automatic reasoning natural language processing and computer applications of natural language or human like reasoning This Festschrift volume published to honor Leonard Bolc on his 75th birthday includes 17 refereed papers by leading researchers his friends former students and colleagues to celebrate his scientific career The essays present research in the areas which Leonard Bolc and his colleagues investigated during his long scientific career The volume is organized in three parts the first is devoted to logic the domain which was one of the most explored by Leonard Bolc himself The second part contains papers focusing on different aspects of computational linguistics the third part comprises papers describing different applications in which natural language processing or automatic reasoning plays an important role

Soft Computing for Recognition Based on Biometrics Patricia Melin,Witold Pedrycz,2010-09-20 This book describes bio inspired models and applications of hybrid intelligent systems using soft computing techniques for image analysis and pattern recognition based on biometrics and other sources Each section groups papers on a similar subject

Web Intelligence Meets Brain Informatics Ning Zhong,Jiming Liu,Yiyu Yao,Jinglong Wu,Shengfu Lu,Kuncheng Li,2007-12-03 This book constitutes the thoroughly refereed post workshop proceedings of the First WICI International Workshop on Web Intelligence meets Brain Informatics WImBI 2006 which was held in Beijing China in December 2006 The workshop explores a new perspective of Web Intelligence WI research from the viewpoint of Brain Informatics BI The 26 revised full length papers presented together with three introductory lectures have been carefully reviewed and selected

Agent Systems in Electronic Business Li, Eldon Y.,Yuan, Soe-Tsy,2007-11-30 This book delivers definitive research on the use of agent technologies to advance the practice of electronic business in today s organizations targeting the needs of enterprises in open and dynamic business opportunities to incorporate skilled use of multiple independent information systems It clearly articulates the stages involved in developing agent based e business systems Provided by publisher

Life System Modeling and Intelligent Computing Minrui Fei,Li Jia,George W. Irwin,2010-09 This book is part II of a two volume work that contains the refereed proceedings of the International Conference on Life System Modeling and Simulation LSMS 2010 and the International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2010 held in Wuxi China in September 2010 The 194 revised full papers presented were carefully reviewed and selected from over 880 submissions and recommended for publication by Springer in two volumes of Lecture Notes in Computer Science LNCS and one volume of Lecture Notes in Bioinformatics LNBI This particular volume of Lecture Notes in Computer Science LNCS includes 55 papers covering 7 relevant topics The 56 papers in this volume are organized in topical sections on advanced evolutionary computing theory and algorithms advanced neural network and fuzzy system theory and algorithms modeling and simulation of societies and collective behavior biomedical signal processing imaging and visualization intelligent computing and control in distributed power generation systems

intelligent methods in power and energy infrastructure development intelligent modeling monitoring and control of complex nonlinear systems **Knowledge-Oriented Applications in Data Mining** Kimito Funatsu, 2011-01-21 The progress of data mining technology and large public popularity establish a need for a comprehensive text on the subject The series of books entitled by Data Mining address the need by presenting in depth description of novel mining algorithms and many useful applications In addition to understanding each section deeply the two books present useful hints and strategies to solving problems in the following chapters The contributing authors have highlighted many future research directions that will foster multi disciplinary collaborations and hence will lead to significant development in the field of data mining

Multi-Agent Programming Rafael H. Bordini, Mehdi Dastani, Jürgen Dix, Amal El Fallah Seghrouchni, 2005-11-21 Multi Agent Programming is an essential reference for anyone interested in the most up to date developments in MAS programming While previous research has focused on the development of formal and informal approaches to analyze and specify Multi Agent Systems this book focuses on the development of programming languages and tools which not only support MAS programming but also implement key concepts of MAS in a unified framework Part I describes approaches that rely on computational logic or process algebra Jason 3APL IMPACT and CLAIM SyMPA Part II presents languages and platforms that extend or are based on Java JADE Jadex and JACKTM Part III provides two significant industry specific applications The DEFECTO System for coordinating human agent teams for disaster response and the ARTIMIS rational dialogue agent technology Also featured are seven appendices for quick reference and comparison **Transactions on Rough Sets VI** James F. Peters, Ivo Düntsch, Jerzy Grzymala-Busse, Ewa Orłowska, Lech Polkowski, 2007-03-08 Annotation The LNCS journal Transactions on Rough Sets is devoted to the entire spectrum of rough sets related issues from logical and mathematical foundations through all aspects of rough set theory and its applications such as data mining knowledge discovery and intelligent information processing to relations between rough sets and other approaches to uncertainty vagueness and incompleteness such as fuzzy sets and theory of evidence Volume VI of the Transactions on Rough Sets TRS commemorates the life and work of Zdzisław Pawlak 1926 2006 His legacy is rich and varied Prof Pawlak's research contributions have had far reaching implications inasmuch as his works are fundamental in establishing new perspectives for scientific research in a wide spectrum of fields This volume of the TRS presents papers that reflect the profound influence of a number of research initiatives by Professor Pawlak In particular this volume introduces a number of new advances in the foundations and applications of artificial intelligence engineering logic mathematics and science These advances have significant implications in a number of research areas such as the foundations of rough sets approximate reasoning bioinformatics computational intelligence cognitive science data mining information systems intelligent systems machine intelligence and security **Wisdom Web of Things** Ning Zhong, Jianhua Ma, Jiming Liu, Runhe Huang, Xiaohui Tao, 2016-11-07 This book provides a thorough overview of the Wisdom Web of Things W2T a holistic framework for

computing and intelligence in an emerging hyper world with a social cyber physical space Fast evolving Web intelligence research and development initiatives are now moving toward understanding the multifaceted nature of intelligence and incorporating it at the Web scale in a ubiquitous environment with data connection and service explosion The book focuses on the framework and methodology of W2T as well as its applications in different problem domains such as intelligent businesses urban computing social computing brain informatics and healthcare From the researcher and developer perspectives the book takes a systematic structured view of various W2T facets and their overall contribution to the development of W2T as a whole Written by leading international researchers this book is an essential reference for researchers educators professionals and tertiary HDR students working on the World Wide Web ubiquitous computing knowledge management and business intelligence

Metasynthetic Computing and Engineering of Complex Systems
Longbing Cao,2015-05-29 Provides a comprehensive overview and introduction to the concepts methodologies analysis design and applications of metasynthetic computing and engineering The author Presents an overview of complex systems especially open complex giant systems such as the Internet complex behavioural and social problems and actionable knowledge discovery and delivery in the big data era Discusses ubiquitous intelligence in complex systems including human intelligence domain intelligence social intelligence network intelligence data intelligence and machine intelligence and their synergy through metasynthetic engineering Explains the concept and methodology of human centred human machine cooperated qualitative to quantitative metasynthesis for understanding and managing open complex giant systems and its computing approach metasynthetic computing Introduces techniques and tools for analysing and designing problem solving systems for open complex problems and systems Metasynthetic Computing and Engineering uses the systematology methodology in addressing system complexities in open complex giant systems for which it may not only be effective to apply reductionism or holism The book aims to encourage and inspire discussions design implementation and reflection of effective methodologies and tools for computing and engineering open complex systems and problems Researchers research students and practitioners in complex systems artificial intelligence data science computer science and even system science cognitive science behaviour science and social science will find this book invaluable

Extending Web Services Technologies
Lawrence Cavedon,Zakaria Maamar,David Martin,Boualem Benatallah,2006-03-30 Extending Web Services Technologies addresses the rapidly growing impact of Multi Agent Systems on web services tools and techniques In particular the book addresses the potential for MAS techniques to impact the difficult challenges that must be tackled for web services technology to realize its promises The area of web services offers the multi agent community exciting research possibilities including similarities in system architectures powerful tools and a focus on issues such as trust and reliability Likewise techniques developed in the multi agent research community promise to have a strong impact on this fast growing technology The contents contain contributions by leading international researchers and professionals from both the web

services and Multi Agent Systems community Topics include semantic web services and associated standards architectures integrating agents and services transactions authorization and service composition **Healthcare Service Management**

Li Tao, Jiming Liu, 2019-05-08 Healthcare service systems are of profound importance in promoting the public health and wellness of people This book introduces a data driven complex systems modeling approach D2CSM to systematically understand and improve the essence of healthcare service systems In particular this data driven approach provides new perspectives on health service performance by unveiling the causes for service disparity such as spatio temporal variations in wait times across different hospitals The approach integrates four methods Structural Equation Modeling SEM based analysis integrated projection service management strategy design and evaluation and behavior based autonomy oriented modeling to address respective challenges encountered in performing data analytics and modeling studies on healthcare services The thrust and uniqueness of this approach lies in the following aspects Ability to explore underlying complex relationships between observed or latent impact factors and service performance Ability to predict the changes and demonstrate the corresponding dynamics of service utilization and service performance Ability to strategically manage service resources with the adaptation of unpredictable patient arrivals Ability to figure out the working mechanisms that account for certain spatio temporal patterns of service utilization and performance To show the practical effectiveness of the proposed systematic approach this book provides a series of pilot studies within the context of cardiac care in Ontario Canada The exemplified studies have unveiled some novel findings e g 1 service accessibility and education may relieve the pressure of population size on service utilization 2 functionally coupled units may have a certain cross unit wait time relationship potentially because of a delay cascade phenomena 3 strategically allocating time blocks in operating rooms ORs based on a feedback mechanism may benefit OR utilization 4 patients and hospitals autonomous behavior and their interactions via wait times may bear the responsible for the emergence of spatio temporal patterns observed in the real world cardiac care system Furthermore this book presents an intelligent healthcare decision support iHDS system an integrated architecture for implementing the data driven complex systems modeling approach to developing analyzing investigating supporting and advising healthcare related decisions In summary this book provides a data driven systematic approach for addressing practical decision support problems confronted in healthcare service management This approach will provide policy makers researchers and practitioners with a practically useful way for examining service utilization and service performance in various what if scenarios inspiring the design of effectiveness resource allocation strategies and deepening the understanding of the nature of complex healthcare service systems **Advances in Web Intelligence** Janusz Kacprzyk, 2005-05-30 This book constitutes the refereed proceedings of the Third International Atlantic Web Intelligence Conference AWIC 2005 held in Lodz Poland in June 2005 The 74 revised papers presented together with abstracts of 4 invited papers were carefully reviewed and selected from 140 submissions All current aspects Web intelligence are

addressed including semantic Web issues ambient intelligence intelligent information services Web search distributed service management clustering visualization data mining description logics ontologies Web query processing categorization classification Web services e learning and knowledge discovery **Products and Services** Igor Fuerstner,2010-11-02

Today s global economy offers more opportunities but is also more complex and competitive than ever before This fact leads to a wide range of research activity in different fields of interest especially in the so called high tech sectors This book is a result of widespread research and development activity from many researchers worldwide covering the aspects of development activities in general as well as various aspects of the practical application of knowledge **Agent and**

Multi-Agent Systems: Technologies and Applications Geun Sik Jo,Lakhmi Jain,2008-03-14 Following from the very successful First KES Symposium on Agent and Multi Agent Systems Technologies and Applications KES AMSTA 2007 held in Wroclaw Poland 31 May 1 June 2007 the second event in the KES AMSTA symposium series KES AMSTA 2008 was held in Incheon Korea March 26 28 2008 The symposium was organized by the School of Computer and Information Engineering Inha University KES International and the KES Focus Group on Agent and Mul agent Systems The KES AMSTA Symposium Series is a sub series of the KES Conference Series The aim of the symposium was to provide an international forum for scientific research into the technologies and applications of agent and multi agent systems Agent and multi agent systems are related to the modern software which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems A key development in the field of agent and multi agent systems has been the specification of agent communication languages and formalization of ontologies Agent communication languages are intended to provide standard declarative mechanisms for agents to communicate knowledge and make requests of each other whereas ontologies are intended for conceptualization of the knowledge domain The symposium attracted a very large number of scientists and practitioners who submitted their papers for nine main tracks concerning the methodology and applications of agent and multi agent systems a doctoral track and two special sessions *Agent Intelligence Through Data Mining* Andreas L.

Symeonidis,Pericles A. Mitkas,2006-05-06 Knowledge hidden in voluminous data repositories routinely created and maintained by today s applications can be extracted by data mining The next step is to transform this discovered knowledge into the inference mechanisms or simply the behavior of agents and multi agent systems Agent Intelligence Through Data Mining addresses this issue as well as the arguable challenge of generating intelligence from data while transferring it to a separate possibly autonomous software entity This book contains a methodology tools and techniques and several examples of agent based applications developed with this approach This volume focuses mainly on the use of data mining for smarter more efficient agents Agent Intelligence Through Data Mining is designed for a professional audience of researchers and practitioners in industry This book is also suitable for graduate level students in computer science **Advances in**

Intelligent IT Y. Li,M. Looi,N. Zhong,2006-05-09 Active Media Technology is an area of intelligent information technology

and computer science that emphasizes the proactive roles of interfaces and systems This book brings together papers from researchers from diverse areas such as Web intelligence data mining intelligent agents smart information use networking and intelligent interface

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