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LNAI 2871

Foundations of Intelligent Systems

14th International Symposium, ISMIS 2003
Maebashi City, Japan, October 2003
Proceedings

Foundations Of Intelligent Systems 14th International Symposium Maebashi City Japan October 2003 Proceedings

Arthur James Wells

Foundations Of Intelligent Systems 14th International Symposium Maebashi City Japan October 2003 Proceedings:

Foundations of Intelligent Systems Ning Zhong,Zbigniew W Ras,Shusaku Tsumoto,Einoshin Suzuki,2003-10-10 This volume contains the papers selected for presentation at the 14th International Symposium on Methodologies for Intelligent Systems ISMIS 2003 held in Maebashi City Japan 28 31 October 2003 The symposium was organized by the Maebashi Institute of Technology in co operation with the Japanese Society for Artificial Intelligence It was sponsored by the Maebashi Institute of Technology Maebashi Convention Bureau Maebashi City Government Gunma Prefecture Government US AFOSR AOARD the Web Intelligence Consortium Japan Gunma Information Service Industry Association and Ryomo Systems Co Ltd ISMIS is a conference series that was started in 1986 in Knoxville Tennessee Since then it has been held in Charlotte North Carolina Knoxville Tennessee Turin Italy Trondheim Norway Warsaw Poland Zakopane Poland and Lyon France The program committee selected the following major areas for ISMIS 2003 active media human computer interaction autonomic and evolutionary computation intelligent agent technology intelligent information retrieval intelligent information systems knowledge representation and integration knowledge discovery and data mining logic for artificial intelligence soft computing and Web intelligence **Foundations of Intelligent Systems** Ning Zhong,Zbigniew W. Ras,Shusaku Tsumoto,Einoshin Suzuki,2003-10-22 This volume contains the papers selected for presentation at the 14th International Symposium on Methodologies for Intelligent Systems ISMIS 2003 held in Maebashi City Japan 28 31 October 2003 The symposium was organized by the Maebashi Institute of Technology in co operation with the Japanese Society for Artificial Intelligence It was sponsored by the Maebashi Institute of Technology Maebashi Convention Bureau Maebashi City Government Gunma Prefecture Government US AFOSR AOARD the Web Intelligence Consortium Japan Gunma Information Service Industry Association and Ryomo Systems Co Ltd ISMIS is a conference series that was started in 1986 in Knoxville Tennessee Since then it has been held in Charlotte North Carolina Knoxville Tennessee Turin Italy Trondheim Norway Warsaw Poland Zakopane Poland and Lyon France The program committee selected the following major areas for ISMIS 2003 active media human computer interaction autonomic and evolutionary computation intelligent agent technology intelligent information retrieval intelligent information systems knowledge representation and integration knowledge discovery and data mining logic for artificial intelligence soft computing and Web intelligence **Developing Intelligent Agent Systems** Lin Padgham,Michael Winikoff,2005-06-24 Build your own intelligent agent system Intelligent agent technology is a tool of modern computer science that can be used to engineer complex computer programmes that behave rationally in dynamic and changing environments Applications range from small programmes that intelligently search the Web buying and selling goods via electronic commerce to autonomous space probes This powerful technology is not widely used however as developing intelligent agent software requires high levels of training and skill The authors of this book have

developed and tested a methodology and tools for developing intelligent agent systems With this methodology Prometheus developers can start agent oriented designs and implementations easily from scratch saving valuable time and resources Developing Intelligent Agent Systems not only answers the questions what are agents and why are they useful but also the crucial question how do I design and build intelligent agent systems The book covers everything a practitioner needs to know to begin to effectively use this technology including an introduction to the notion of agents a description of the concepts involved and a software engineering methodology Read on for a practical step by step introduction to designing and building intelligent agent systems a full life cycle methodology for developing intelligent agent systems covering specification analysis design and implementation of agents PDT Prometheus Design Tool software support for the Prometheus design process the example of an electronic bookstore to illustrate the design process throughout the book Electronic resources including the Prometheus Design Tool PDT can be found at http www cs rmit edu au agents prometheus This book is aimed at industrial software developers software engineers and at advanced undergraduate students It assumes knowledge of basic software engineering but does not require knowledge of Artificial Intelligence or of mathematics Familiarity with Java will help in reading the examples in chapter 10 **Theory and Applications of Ontology: Computer Applications** Roberto Poli,Michael Healy,Achilles Kameas,2010-09-02 Ontology was once understood to be the philosophical inquiry into the structure of reality the analysis and categorization of what there is Recently however a field called ontology has become part of the rapidly growing research industry in information technology The two fields have more in common than just their name Theory and Applications of Ontology is a two volume anthology that aims to further an informed discussion about the relationship between ontology in philosophy and ontology in information technology It fills an important lacuna in cutting edge research on ontology in both fields supplying stage setting overview articles on history and method presenting directions of current research in either field and highlighting areas of productive interdisciplinary contact Theory and Applications of Ontology Computer Applications presents ontology in ways that philosophers are not likely to find elsewhere The volume offers an overview of current research in ontology distinguishing basic conceptual issues domain applications general frameworks and mathematical formalisms It introduces the reader to current research on frameworks and applications in information technology in ways that are sure to invite reflection and constructive responses from ontologists in philosophy **Data Mining: Foundations and Practice** Tsau Young Lin,Ying Xie,Anita Wasilewska,Churn-Jung Liau,2008-08-17 The IEEE ICDM 2004 workshop on the Foundation of Data Mining and the IEEE ICDM 2005 workshop on the Foundation of Semantic Oriented Data and Web Mining focused on topics ranging from the foundations of data mining to new data mining paradigms The workshops brought together both data mining researchers and practitioners to discuss these two topics while seeking solutions to long standing data mining problems and stimul ing new data mining research directions We feel that the papers presented at these workshops may encourage the study of data mining as a scienti c eld and spark

new communications and collaborations between researchers and practitioners Toexpressthevisionsforgedintheworkshopstoawiderangeofdatam ing researchers and practitioners and foster active participation in the study of foundations of data mining we edited this volume by involving extended and updated versions of selected papers presented at those workshops as well as some other relevant contributions The content of this book includes st ies of foundations of data mining from theoretical practical algorithmical and managerial perspectives The following is a brief summary of the papers contained in this book **Pattern Classification Using Ensemble Methods** Lior Rokach,2010 1 Introduction to pattern classification 1 1 Pattern classification 1 2 Induction algorithms 1 3 Rule induction 1 4 Decision trees 1 5 Bayesian methods 1 6 Other induction methods 2 Introduction to ensemble learning 2 1 Back to the roots 2 2 The wisdom of crowds 2 3 The bagging algorithm 2 4 The boosting algorithm 2 5 The AdaBoost algorithm 2 6 No free lunch theorem and ensemble learning 2 7 Bias variance decomposition and ensemble learning 2 8 Occam s razor and ensemble learning 2 9 Classifier dependency 2 10 Ensemble methods for advanced classification tasks 3 Ensemble classification 3 1 Fusions methods 3 2 Selecting classification 3 3 Mixture of experts and meta learning 4 Ensemble diversity 4 1 Overview 4 2 Manipulating the inducer 4 3 Manipulating the training samples 4 4 Manipulating the target attribute representation 4 5 Partitioning the search space 4 6 Multi inducers 4 7 Measuring the diversity 5 Ensemble selection 5 1 Ensemble selection 5 2 Pre selection of the ensemble size 5 3 Selection of the ensemble size while training 5 4 Pruning post selection of the ensemble size 6 Error correcting output codes 6 1 Code matrix decomposition of multiclass problems 6 2 Type I training an ensemble given a code matrix 6 3 Type II adapting code matrices to the multiclass problems 7 Evaluating ensembles of classifiers 7 1 Generalization error 7 2 Computational complexity 7 3 Interpretability of the resulting ensemble 7 4 Scalability to large datasets 7 5 Robustness 7 6 Stability 7 7 Flexibility 7 8 Usability 7 9 Software availability 7 10 Which ensemble method should be used The Art of Agent-oriented Modeling Leon Sterling,Kuldar Taveter,2009 The Art of Agent Oriented Modeling is an introduction to agent oriented software development for students and for software developers who are interested in learning about new software engineering techniques Foreword **Data Mining With Decision Trees: Theory And Applications (2nd Edition)** Oded Z Maimon,Lior Rokach,2014-09-03 Decision trees have become one of the most powerful and popular approaches in knowledge discovery and data mining it is the science of exploring large and complex bodies of data in order to discover useful patterns Decision tree learning continues to evolve over time Existing methods are constantly being improved and new methods introduced This 2nd Edition is dedicated entirely to the field of decision trees in data mining to cover all aspects of this important technique as well as improved or new methods and techniques developed after the publication of our first edition In this new edition all chapters have been revised and new topics brought in New topics include Cost Sensitive Active Learning Learning with Uncertain and Imbalanced Data Using Decision Trees beyond Classification Tasks Privacy Preserving Decision Tree Learning Lessons Learned from Comparative

Studies and Learning Decision Trees for Big Data A walk through guide to existing open source data mining software is also included in this edition This book invites readers to explore the many benefits in data mining that decision trees offer

IAENG Transactions on Engineering Sciences Sio-Iong Ao,Alan Hoi-Shou Chan,Hideki Katagiri,Li Xu,2014-04-07 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong March 13 15 2013 under the International MultiConference of Engineers and Computer Scientists IMECS 2013 and in London U K 3 5 July 2013 under the World Congress on Engineering 2013 WCE 2013 respectively IMECS 2013 and WCE 2013 were organize Handbook of Ontologies for Business Interaction Rittgen, Peter,2007-11-30 This book documents high quality research addressing ontological issues relevant to the modeling of enterprises and information systems in general and business processes in particular covering both static and dynamic aspects of structural concepts It provides reference content to researchers practitioners and scholars in the fields of language design information systems enterprise modeling artificial intelligence and the Semantic Web Provided by publisher *International Labour Review* ,2005 **Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing** Dominik Ślęzak,2005 This volume contains the papers selected for presentation at the 10th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2005 organized at the University of Regina August 31st September 3rd 2005 **Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing** Dominik Slezak,JingTao Yao,James F. Peters,Wojciech Ziarko,Xiaohua Hu,2005-09-14 This volume contains the papers selected for presentation at the 10th Int national Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2005 organized at the University of Regina August 31st September 3rd 2005 This conference followed in the footsteps of inter tional events devoted to the subject of rough sets held so far in Canada China Japan Poland Sweden and the USA RSFDGrC achievedthe status of biennial international conference starting from 2003 in Chongqing China The theory of rough sets proposed by Zdzis law Pawlak in 1982 is a model of approximate reasoning The main idea is based on indiscernibility relations that describe indistinguishability of objects Concepts are represented by proximations In applications rough set methodology focuses on approximate representation of knowledge derivable from data It leads to signi cant results in many areas such as nance industry multimedia and medicine The RSFDGrC conferences put an emphasis on connections between rough sets and fuzzy sets granularcomputing and knowledge discoveryand data m ing both at the level of theoretical foundations and real life applications In the case of this event additional e ort was made to establish a linkage towards a broader range of applications We achieved it by including in the conference program the workshops on bioinformatics security engineering and embedded systems as well as tutorials and sessions related to other application areas *Intelligent Information Processing and Web Mining* Mieczyslaw A. Klopotek,2003-05-09 This edited book contains articles accepted for presentation during The Intelligent Information Processing and Web Mining Conference IIS IIPWM 03 held in Zakopane Poland on June 2 5 2003 A lot of attention is devoted to the newest developments in the area of Artificial

Intelligence with special calls for contributions on artificial immune systems and search engines This book will be a valuable source for further research in the fields of data mining intelligent information processing immunogenetics machine learning or language processing for search engines **The British National Bibliography** Arthur James Wells,2003 **American Book Publishing Record** ,2004 **Web Intelligence: Research and Development** Ning Zhong,Yiyu Yao,Jiming Liu,Setsuo Ohsuga,2003-06-30 This book constitutes the refereed proceedings of the First Asia Pacific Conference on Web Intelligence WI 2001 held in Maebashi City Japan in October 2001 The 28 revised full papers and 45 revised short papers presented were carefully reviewed and selected from 153 full length paper submissions Also included are an introductory survey and six invited presentations The book offers topical sections on Web information systems environments and foundations Web human media engineering Web information management Web information retrieval Web agents Web mining and farming and Web based applications Advanced Topics in Database Research, Volume 2 Siau, Keng,2002-07-01 Advanced Topics in Database Research features the latest cutting edge research findings dealing with all aspects of database management systems analysis and design and software engineering This book provides information that is instrumental in the improvement and development of theory and practice related to information technology and management of information resources **Methodologies for intelligent systems : proceedings of the ... international symposium ; 1** ,1986 **Methodologies for intelligent systems : proceedings of the ... international symposium ; 4** ,1989

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