

Probabilistic Reasoning In Intelligent Systems Networks Of Plausible Inference Morgan Kaufmann Series In Representation And Reasoning

Advances in Intelligent Systems
Intelligent Systems: Concepts, Methodologies, Tools, and Applications
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Research and Development in Intelligent Systems XXXII
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Complex Intelligent Systems and Their Applications
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Innovations in Intelligent Systems
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intelligent systems involve a large class of systems which posses human like capabilities such as learning observation perception interpretation reasoning under uncertainty planning in known and unknown environments decision making and control action the field of intelligent systems is actually a new interdisciplinary field which is the outcome of the interaction cooperation and synergetic merging of classical fields such as system theory control theory artificial intelligence information theory operational research soft computing communications linguistic theory and others integrated intelligent decision and control systems involve three primary hierarchical levels namely organization coordination and execution levels as we proceed from the be performed organization to the execution level the precision about the jobs to increases and accordingly the intelligence required for these jobs decreases this is in compliance with the principle of increasing precision with decreasing intelligence ipoi known from the management field and theoretically established by saridis using information theory concepts this book is concerned with intelligent systems and techniques and gives emphasis on the computational and processing issues control issues are not included here the contributions of the book are presented in four parts as follows

ongoing advancements in modern technology have led to significant developments in intelligent systems with the numerous applications available it becomes imperative to conduct research and make further progress in this field intelligent systems concepts methodologies tools and applications contains a compendium of the latest academic material on the latest breakthroughs and recent progress in intelligent systems including innovative studies on information retrieval artificial intelligence and software engineering this multi volume book is an ideal source for researchers professionals academics upper

level students and practitioners interested in emerging perspectives in the field of intelligent systems

intelligent systems provide a platform to connect the research in artificial intelligence to real world problem solving applications various intelligent systems have been developed to face real world applications this book discusses the modern advances in intelligent systems and the tools in applied artificial intelligence it consists of twenty three chapters authored by participants of the 25th international conference on industrial engineering other applications of applied intelligent systems ieaaie 2012 which was held in dalian china this book is divided into six parts including applied intelligence cognitive computing and affective computing data mining and intelligent systems decision support systems machine learning and natural language processing each part includes three to five chapters in these chapters many approaches applications restrictions and discussions are presented the material of each chapter is self contained and was reviewed by at least two anonymous referees to assure the high quality readers can select any individual chapter based on their research interests without the need of reading other chapters we hope that this book provides useful reference values to researchers and students in the field of applied intelligence we also hope that readers will find opportunities and recognize challenges through the papers presented in this book

the papers in this volume are the refereed papers presented at ai 2016 the thirty sixth sgai international conference on innovative techniques and applications of artificial intelligence held in cambridge in december 2016 in both the technical and the application streams they present new and innovative developments and applications divided into technical stream sections on knowledge discovery and data mining sentiment analysis and recommendation machine learning ai techniques and natural language processing followed by application stream sections on ai for medicine and disability legal liability and finance telecoms and elearning and genetic algorithms in action the volume also includes the text of short papers presented as posters at the conference this is the thirty third volume in the research and development in intelligent systems series which also incorporates the twenty fourth volume in the applications and innovations in intelligent systems series these series are essential reading for those who wish to keep up to date with developments in this important field

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complex intelligent systems and applications presents the most up to date advances in complex software intensive and intelligent systems each self contained chapter is the contribution of distinguished experts in areas of research relevant to the study of complex intelligent and software intensive systems these contributions focus on the resolution of complex problems from areas of networking optimization and artificial intelligence the book is divided into three parts focusing on complex intelligent network systems efficient resource management in complex systems and artificial data mining

systems through the presentation of these diverse areas of application the volume provides insights into the multidisciplinary nature of complex problems throughout the entire book special emphasis is placed on optimization and efficiency in resource management network interaction and intelligent system design this book presents the most recent interdisciplinary results in this area of research and can serve as a valuable tool for researchers interested in defining and resolving the types of complex problems that arise in networking optimization and artificial intelligence

this new volume covers a diverse range of advances in intelligent systems that involve applications of ai and digital automation such as machine learning deep learning sectional convolutional neural network models and much more it explores advances in predictive analysis such as using ai for leukemia detection and other diseases strategic decision making models using data analytics video object detection using convolution cnn based mask detection medical image watermarking using rdwt svd dct and more

gathering the proceedings of the 2018 intelligent systems conference intellisys 2018 this book offers a remarkable collection of chapters covering a wide range of topics in intelligent systems and computing and their real world applications the conference attracted a total of 568 submissions from pioneering researchers scientists industrial engineers and students from all around the world these submissions underwent a double blind peer review process after which 194 including 13 poster papers were selected to be included in these proceedings as intelligent systems continue to replace and sometimes outperform human intelligence in decision making processes they have made it possible to tackle many problems more effectively this branching out of computational intelligence in several directions and the use of intelligent systems in everyday applications have created the need for such an international conference which serves as a venue for reporting on cutting edge innovations and developments this book collects both theory and application based chapters on all aspects of artificial intelligence from classical to intelligent scope readers are sure to find the book both interesting and valuable as it presents state of the art intelligent methods and techniques for solving real world problems along with a vision of future research directions

the most common document formalisation for text classification is the vector space model founded on the bag of words phrases representation the main

advantage of the vector space model is that it can readily be employed by classification algorithms however the bag of words phrases representation is suited to capturing only word phrase frequency structural and semantic information is ignored it has been established that structural information plays an important role in classification accuracy 14 an alternative to the bag of words phrases representation is a graph based representation which intuitively possesses much more expressive power however this representation introduces an additional level of complexity in that the calculation of the similarity between two graphs is significantly more computationally expensive than between two vectors see for example 16 some work see for example 12 has been done on hybrid representations to capture both structural elements in the graph model and significant features using the vector model however the computational resources required to process this hybrid model are still extensive

intelligent systems have been initiated with the attempt to imitate the human brain people wish to let machines perform intelligent works many techniques of intelligent systems are based on artificial intelligence according to changing and novel requirements the advanced intelligent systems cover a wide spectrum big data processing intelligent control advanced robotics artificial intelligence and machine learning this book focuses on coordinating intelligent systems with highly integrated and foundationally functional components the book consists of 19 contributions that features social network based recommender systems application of fuzzy enforcement energy visualization ultrasonic muscular thickness measurement regional analysis and predictive modeling analysis of 3d polygon data blood pressure estimation system fuzzy human model fuzzy ultrasonic imaging method ultrasonic mobile smart technology pseudo normal image synthesis subspace classifier mobile object tracking standing up motion guidance system recognition structure multi cam and multi viewer robust gaussian kernel multi human movement trajectory extraction and fashion coordination this edition is published in original peer reviewed contributions covering from initial design to final prototypes and authorization

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

intelligent computing refers greatly to artificial intelligence with the aim at making computer to act as a human this newly developed area of real time intelligent computing integrates the aspect of dynamic environments with the human intelligence this book presents a comprehensive practical and easy to read account which describes current state of the art in designing and implementing real time intelligent computing to robotics alert systems iot remote access control multi agent systems networking mobile smart systems crowd sourcing broadband systems cloud computing streaming data and many other applications areas the solutions discussed in this book will encourage the researchers and it professional to put the methods into their practice

this book presents a broad variety of different contemporary it methods and applications in intelligent systems is displayed every book chapter represents a detailed specific far reaching and original re search in a respective scientific and practical field however all of the chapters share the common point of strong similarity in a sense of being innovative applicable and mutually compatible with each other in other words the methods from the different chapters can be viewed as bricks for building the next generation thinking machines as well as for other futuristic logical applications that are rapidly changing our world nowadays

this book aims to promote a sample of current theoretical and application oriented intelligent systems research specifically in the field of neural networks computing it presents examples of experimental and real world investigations that demonstrate contemporary achievements and advances in the area of intelligent systems this book will prove as a valuable source of up to date theoretical and application oriented research in intelligent systems for researchers

and postgraduate students

this book reports on new theories and applications in the field of intelligent systems and computing it covers cutting edge computational and artificial intelligence methods advances in computer vision big data cloud computing and computation linguistics as well as cyber physical and intelligent information management systems the respective chapters are based on selected papers presented at the workshop on intelligent systems and computing held during the international conference on computer science and information technologies csit 2020 which was jointly organized on september 23 26 2020 by the lviv polytechnic national university ukraine the kharkiv national university of radio electronics ukraine and the technical university of lodz poland under patronage of ministry of education and science of ukraine given its breadth of coverage the book provides academics and professionals with extensive information and a timely snapshot of the field of intelligent systems and is sure to foster new discussions and collaborations among different groups

this book explores the latest research trends in intelligent systems and smart applications it presents high quality empirical and review studies focusing on various topics including information systems and software engineering knowledge management technology in education emerging technologies and social networks it provides insights into the theoretical and practical aspects of intelligent systems and smart applications

this volume is based on the research papers presented in the 4th computer science on line conference the volume software engineering in intelligent systems presents new approaches and methods to real world problems and in particular exploratory research that describes novel approaches in the field of software engineering particular emphasis is laid on modern trends in selected fields of interest new algorithms or methods in a variety of fields are also presented the computer science on line conference csoc 2015 is intended to provide an international forum for discussions on the latest high quality research results in all areas related to computer science the addressed topics are the theoretical aspects and applications of computer science artificial intelligences cybernetics automation control theory and software engineering

advances in intelligent systems reviews vol 1 book series is covering some design and architectural aspects related to intelligent systems and software it ranges from the microarchitecture level via the system software level up to the application specific architecture level the book volume contains ten chapters written by 25 contributors from academia and industry from 8 countries colombia denmark france germany italy japan romania and usa the book will be a valuable tool for those who involved in research and development of various intelligent systems

the proceedings of the 2013 international conference on advances in intelligent systems in bioinformatics chem informatics business intelligence social media and cybernetics intelsys held in jakarta indonesia analysing intelligent systems for quality of life and sustainable development the book highlights contemporary intelligent systems as a concept that combines theoretical research and applications in automation information technologies and measurement containing the ideas and achievements of scientists from all over the world this book covers the theory and practice of various aspects of intelligent systems including intelligent control artificial intelligence decision support systems neural networks soft computing data mining and knowledge discovery ontologies machine learning intelligent measurement

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