

Reading free Computational intelligence cyber security and computational models proceedings of icc3 2015 advances in intelligent systems and computing (2023)

Intelligent Systems Intelligent Systems Intelligent Systems Computationally Intelligent Systems and their Applications Complex Intelligent Systems and Their Applications Modern Advances in Intelligent Systems and Tools Advanced Intelligent Systems Intelligent Systems and Technologies Intelligent Systems and Applications Intelligent Systems Smart and Intelligent Systems Advances in Intelligent Systems Intelligent Systems and Applications Intelligent Systems and Applications Advances in Intelligent Systems and Computing Smart and Sustainable Intelligent Systems Hybrid Intelligent Systems Lecture Notes in Real-Time Intelligent Systems Research and Development in Intelligent Systems XXIX Research and Development in Intelligent Systems XVI Intelligent Systems Technologies and Applications Intelligent Systems and Interfaces Hybrid Intelligent Systems Intelligent Systems Design and Applications Intelligent System Algorithms and Applications in Science and Technology Fuzzy Intelligent Systems Advances in Computer Science, Intelligent Systems and Environment Advances in Intelligent Systems Research and Innovation Recent Advances in Intelligent Systems and Smart Applications Complex, Intelligent, and Software Intensive Systems Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) Soft Computing and Intelligent Systems Innovations in Hybrid Intelligent Systems Advances in Intelligent Systems and Computing IV Intelligent Systems Design and Applications Intelligent Systems and Applications Design of Logic-based Intelligent Systems Hybrid Intelligent Systems Intelligent Systems and Signal Processing in Power Engineering Intelligent Systems and Applications

Intelligent Systems 2017-12-19

providing a thorough introduction to the field of soft computing techniques intelligent systems modeling optimization and control covers every major technique in artificial intelligence in a clear and practical style this book highlights current research and applications addresses issues encountered in the development of applied systems and describes a wide range of intelligent systems techniques including neural networks fuzzy logic evolutionary strategy and genetic algorithms the book demonstrates concepts through simulation examples and practical experimental results case studies are also presented from each field to facilitate understanding

Intelligent Systems 2011-07-29

computational intelligence is a well established paradigm where new theories with a sound biological understanding have been evolving the current experimental systems have many of the characteristics of biological computers brains in other words and are beginning to be built to perform a variety of tasks that are difficult or impossible to do with conventional computers as evident the ultimate achievement in this field would be to mimic or exceed human cognitive capabilities including reasoning recognition creativity emotions understanding learning and so on this book comprising of 17 chapters offers a step by step introduction in a chronological order to the various modern computational intelligence tools used in practical problem solving starting with different search techniques including informed and uninformed search heuristic search minmax alpha beta pruning methods evolutionary algorithms and swarm intelligent techniques the authors illustrate the design of knowledge based systems and advanced expert systems which incorporate uncertainty and fuzziness machine learning algorithms including decision trees and artificial neural networks are presented and finally the fundamentals of hybrid intelligent systems are also depicted academics scientists as well as engineers engaged in research development and application of computational intelligence techniques machine learning and data mining would find the comprehensive coverage of this book invaluable

Intelligent Systems 2011-08-24

artificial intelligence has changed significantly in recent years and many new resources and approaches are now available to explore and implement this important technology intelligent systems principles paradigms and pragmatics takes a modern 21st century approach to the concepts of artificial intelligence and includes the latest developments developmental tools programming and approaches related to ai the author is careful to make the important distinction between theory and practice and focuses on a broad core of technologies providing students with an accessible and comprehensive introduction to key ai topics

Computationally Intelligent Systems and their Applications 2021-04-24

this book covers all core technologies like neural networks fuzzy systems and evolutionary computation and their applications in the systems computationally intelligent system is a new concept for advanced information processing the objective of this system is to realize a new approach for analyzing and creating flexible information processing of sensing learning recognizing and action taking computational intelligent is a part of artificial intelligence ai which includes the study of versatile components to empower or encourage savvy practices in intricate and evolving situations the computationally intelligent system highly relies on numerical information supplied by manufacturers unlike ai

Complex Intelligent Systems and Their Applications 2010-08-03

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

Modern Advances in Intelligent Systems and Tools 2012-08-16

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 iea aie 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

Advanced Intelligent Systems 2014-07-08

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

Intelligent Systems and Technologies 2009-06-17

intelligent systems and technologies are increasing finding their ways in our daily lives this book presents a sample of recent research results from key researchers the contributions include introduction to intelligent systems a fuzzy density analysis of subgroups by means of dna oligonucleotides evolution of cooperating classification rules with an archiving strategy to underpin collaboration designing agents with dynamic capability localized versus locality preserving representation methods in face recognition tasks invariance properties of recurrent neural networks solving bioinformatics problems by soft computing techniques transforming an interactive expert code into a statefull service and a multicoreenabled system ro wordnet with paradigmatic morphology and subjectivity mark up special cases of relative object qualification using the among operator effective speaker tracking strategies for multi party human computer dialogue the fuzzy interpolative control for passive greenhouses gps safety system for airplanes 3d collaborative interfaces for e learning open projects in contemporary e learning software platform for archaeological patrimony inventory and management the book is directed to the graduate students researchers professors and the practitioner of intelligent systems

Intelligent Systems and Applications 2021-08-03

this book presents proceedings of the 2021 intelligent systems conference which is a remarkable collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world the conference attracted a total of 496 submissions from many academic pioneering researchers scientists industrial engineers and students from all around the world these submissions underwent a double blind peer review process of the total submissions 180 submissions have been selected to be included in these proceedings as we witness exponential growth of computational intelligence in several directions and use of

intelligent systems in everyday applications this book is an ideal resource for reporting latest innovations and future of ai the chapters include theory and application on all aspects of artificial intelligence from classical to intelligent scope we hope that readers find the book interesting and valuable it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research

Intelligent Systems 2012-12-06

published in honour of the 70th birthday of yoh han pao george s dively dis tinguished professor of engineering at case western reserve university cleveland ohio this festschrift embraces a remarkably diverse set of topics drawing from the fields of pattern recognition engineering artificial intelligence and artificial neural systems it is a fitting testament to the extraordinary breadth of his professional in terests both in foundational research into the new technology of intelligent systems and ill the application of that evolving technology to the solution of hard engineering problems in common with many scientists who build their reputations in one field before devoting their considerable energies and talents to another one by 1972 the year in which i met him for the first time yoh han had made significant contributions to laser technology in particular to the development of the highly accurate and stable lasers required for holographic recording purposes in conventional holography the information stored in a hologram produces a virtual image of the object charac terised by it however yoh han became fascinated by the possiblity of driving the process backwards of using the hologram as an associative memory device enabling previously stored information to be retrieved on the basis of partial cues it was this burgeoning interest which shaped his career for more than twenty years just prior to 1972 my colleagues professor christopher longuet higgins and dr

Smart and Intelligent Systems 2021-12-28

the more we know about smart and intelligent systems and their use the more productive organizations can become and the more quality of life will improve gaviel salvendy president academy of science engineering and medicine of florida university distinguished professor university of central florida robots drones self driving cars and personal assistants are only some of the intelligent and smart systems which are populating our world and changing the way we use technology to carry out our everyday activities bringing about both exciting opportunities for human technology symbiosis as well as compelling design and development challenges through a carefully selected choice of chapters authored by top scientists in the field this book edited by abbas moallem sheds light on fundamental aspects of intelligent and smart systems investigating the role and impact of affective and psychophysiological computing machine learning cybersecurity agent transparency and human agent teaming in the shaping of this new interaction paradigm as well as the human factors involved in their application in critical domains such as health education and manufacturing in the emerging technological landscape constantine stephanidis professor of computer science university of crete distinguished member of foundation for research and technology hellas forth in today s digital world the words smart and intelligent are now used to label devices machinery systems and even environments what is a smart system is smart synonymous with intelligent if not what does an intelligent system mean are all smart systems intelligent this book tries to answer these questions by summarizing the existing research in various areas and providing new research findings smart and intelligent systems the human elements in artificial intelligence robotics and cybersecurity presents new areas of smart and intelligent system design it defines smart and intelligent systems offers a human factors approach discusses networking applications and combines the human element with smart and intelligent systems this book is perfect for engineering students in data sciences and artificial intelligence and practitioners at all levels in the fields of human factors and ergonomics systems engineering computer science software engineering and robotics

Advances in Intelligent Systems 2013-12-01

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

Intelligent Systems and Applications 2024-02-10

the book is a unique collection of studies involving intelligent systems and applications of artificial intelligence in the real world to provide solutions to most vexing problems intelligisys received an overwhelming 605 papers which were put under strict double blind peer review for their novelty originality and exhaustive research finally 227 papers were sieved and chosen to be published in the proceedings this book is a valuable collection of all the latest research in the field of artificial intelligence and smart systems it provides a ready made resource to all the readers keen on gaining information regarding the latest trends in intelligent systems it also renders a sneak peek into the future world governed by artificial intelligence

Intelligent Systems and Applications 2017-12-30

this book addresses a wide range of topics in areas of intelligent systems and artificial intelligence and their real world applications the 22 chapters have been selected from the 168 papers published in the proceedings of the sai intelligent systems conference 2016 intelligisys 2016 which received highly positive feedback in peer reviews the intelligisys 2016 conference was held in london on 21 22 september 2016 this fascinating book offers readers state of the art intelligent methods and techniques for solving real world problems along with a vision of future research

Advances in Intelligent Systems and Computing 20??

the world is experiencing an unprecedented period of change and growth through all the electronic and technological developments and everyone on the planet has been impacted what was once science fiction today it is a reality this book explores the world of many of once unthinkable advancements by explaining current technologies in great detail each chapter focuses on a different aspect machine vision pattern analysis and image processing advanced trends in computational intelligence and data analytics futuristic communication technologies disruptive technologies for future sustainability the chapters include the list of topics that spans all the areas of smart intelligent systems and computing such as data mining with soft computing evolutionary computing quantum computing expert systems next generation communication blockchain and trust management intelligent biometrics multi valued logical systems cloud computing and security etc an extensive list of bibliographic references at the end of each chapter guides the reader to probe further into application area of interest to him her

Smart and Sustainable Intelligent Systems 2021-04-13

this book highlights the recent research on hybrid intelligent systems and their various practical applications it presents 58 selected papers from the 20th international conference on hybrid intelligent systems his 2020 and 20 papers from the 12th world congress on nature and biologically inspired computing nabic 2020 which was held online from december 14 to 16 2020 a premier conference in the field of artificial intelligence his nabic 2020 brought together researchers engineers and practitioners whose work involves intelligent systems network security and their applications in industry including contributions by authors from 25 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of science and engineering

Hybrid Intelligent Systems 2021-04-16

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

Lecture Notes in Real-Time Intelligent Systems 2017-08-07

the papers in this volume are the refereed papers presented at ai 2012 the thirty second sgai international conference on innovative techniques and applications of artificial intelligence held in cambridge in december 2012 in both the technical and the application streams they present new and innovative developments and applications divided into technical stream sections on data mining data mining and machine learning planning and optimisation and knowledge management and prediction followed by application stream sections on language and classification recommendation practical applications and systems and data mining and machine learning the volume also includes the text of short papers presented as posters at the conference this is the twenty ninth volume in the research and development in intelligent systems series which also incorporates the twentieth 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

Research and Development in Intelligent Systems XXIX 2012-10-30

this volume contains the refereed technical papers presented at es99 the nineteenth sges international conference on knowledge based systems and applied artificial intelligence held in cambridge in december 1999 the papers in this volume present new and innovative developments in the field divided into sections on knowledge engineering knowledge discovery case based reasoning learning and knowledge representation and refinement this is the sixteenth volume in the research and development series the series is essential reading for those who wish to keep up to date with developments in this important field the application stream papers are published as a companion volume under the title applications and innovations in intelligent systems vii

Research and Development in Intelligent Systems XVI 2012-12-06

this book contains a selection of refereed and revised papers from three special tracks ad hoc and wireless sensor networks intelligent distributed computing and business intelligence and big data analytics originally presented at the international symposium on intelligent systems technologies and applications ista august 10 13 2015 kochi india

Intelligent Systems Technologies and Applications 2015-08-26

this volume offers comprehensive coverage of intelligent systems including fundamental aspects software sensors and hardware related issues moreover the contributors to this volume provide beyond a systematic overview of intelligent interfaces and systems deep practical knowledge in building and using intelligent systems in various applications special emphasis is placed on specific aspects and requirements in applications

Intelligent Systems and Interfaces 2013-07-13

hybrid intelligent systems summarizes the strengths and weaknesses of five intelligent technologies fuzzy logic genetic algorithms case based reasoning neural networks and expert systems reviewing the status and significance of research into their integration engineering and scientific examples and case studies are used to illustrate principles and application development techniques the reader will gain a clear idea of the current status of hybrid intelligent systems and discover how to choose and develop appropriate applications the book is based on a thorough literature search of recent publications on research and development in hybrid intelligent systems the resulting 50 page reference section of the book is invaluable the book starts with a summary of the five major intelligent technologies and of the issues in and current status of research into them each subsequent chapter presents a detailed discussion of a different combination of intelligent technologies along with examples and case studies four chapters contain detailed case studies of working hybrid systems the book enables the reader to describe the important concepts strengths and limitations of each technology recognize and analyze potential problems with the application of hybrid systems choose appropriate hybrid intelligent solutions understand how applications are designed with any of the approaches covered choose appropriate commercial development shells or tools an invaluable reference source for those who wish to apply intelligent systems techniques to their own problems

Hybrid Intelligent Systems 1995-06-30

this book highlights recent research on intelligent systems and nature inspired computing it presents 212 selected papers from the 18th international conference on intelligent systems design and applications isda 2018 and the 10th world congress on nature and biologically inspired computing nabic which was held at vit university india isda nabic 2018 was a premier conference in the field of computational intelligence and brought together researchers engineers and practitioners whose work involved intelligent systems and their applications in industry and the real world including contributions by authors from over 40 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering

Intelligent Systems Design and Applications 2019-04-11

the 21st century has witnessed massive changes around the world in intelligence systems in order to become smarter energy efficient reliable and cheaper this volume explores the application of intelligent techniques in various fields of engineering and technology it addresses diverse topics in such areas as machine learning based intelligent systems for healthcare applications of artificial intelligence and the internet of things intelligent data analytics techniques intelligent network systems and applications and inequalities and process control systems the authors explore the full breadth of the field which encompasses data analysis image processing speech processing and recognition medical science and healthcare monitoring smart irrigation systems insurance and banking robotics and process control and more

Intelligent System Algorithms and Applications in Science and Technology 2022-02-03

fuzzy intelligent systems a comprehensive guide to expert systems and fuzzy logic that is the backbone of artificial intelligence the objective in writing the book is to foster advancements in the field and help disseminate results concerning recent applications and case studies in the areas of fuzzy logic intelligent systems and web based applications among working professionals and those in education and research covering a broad cross section of technical disciplines fuzzy intelligent systems methodologies techniques and applications comprises state of the art chapters detailing how expert systems are built and how the fuzzy logic resembling human reasoning powers them engineers both current and future need systematic training in the analytic theory and rigorous design of fuzzy control systems to keep up with and advance the rapidly evolving field of applied control technologies as a consequence expert systems with fuzzy logic capabilities make for a more versatile and innovative handling of problems this book showcases the combination of fuzzy logic and neural networks known as a neuro fuzzy system which results in a hybrid intelligent system by combining a human like reasoning style of neural networks audience researchers and students in computer science internet of things artificial intelligence machine learning big data analytics and information and communication technology related fields students will gain a thorough understanding of fuzzy control systems theory by mastering its contents

Fuzzy Intelligent Systems 2021-09-08

csise2011 is an integrated conference concentrating its focus upon computer science intelligent system and environment in the proceeding you can learn much more knowledge about computer science intelligent system and environment of researchers all around the world the international conference will provide a forum for engineers scientist teachers and all researchers to discuss their latest research achievements and their future research plan the main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned field in order to meet high standard of springer s advances in intelligent and soft computing the organization committee has made their efforts to do the following things firstly poor quality paper has been refused after reviewing course by anonymous referee experts secondly periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions finally the conference organization had several preliminary sessions before the conference through efforts of different people and departments the conference will be successful and fruitful we hope that you can get much more knowledges from our csise2011 and we also hope that you can give us good suggestions to improve our work in the future

Advances in Computer Science, Intelligent Systems and Environment 2011-09-18

this book represents the experience of successful researchers from four continents on a broad range of intelligent systems and it hints how to avoid anticipated conflicts and problems during multidisciplinary innovative research from industry 4.0 and/or internet of things through modern machine learning and software agent applications to open data science big data advance analytics visual analytics text mining web mining knowledge discovery deep data mining issues the considered intelligent part is essential in most smart control systems cyber security bioinformatics virtual reality robotics mathematical modelling projects and its significance rapidly increases in other technologies theoretical foundations of fuzzy sets mathematical and non classical logic also are rapidly developing

Advances in Intelligent Systems Research and Innovation 2021-11-03

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

Recent Advances in Intelligent Systems and Smart Applications 2020-06-26

this book provides a platform of scientific interaction between the three challenging and closely linked areas of ICT enabled application research and development software intensive systems complex systems and intelligent systems software intensive systems strongly interact with other systems sensors actuators devices other software systems and users more and more domains are using software intensive systems e.g. automotive and telecommunication systems embedded systems in general industrial automation systems and business applications moreover web services offer a new platform for enabling software intensive systems complex systems research is focused on the overall understanding of systems rather than their components complex systems are characterized by the changing environments in which they interact they evolve and adapt through internal and external dynamic interactions the development of intelligent systems and agents which are increasingly characterized by their use of ontologies and their logical foundations offer impulses for both software intensive systems and complex systems recent research in the field of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences are vital for the future development and innovation of software intensive and complex systems

Complex, Intelligent, and Software Intensive Systems 2018-06-18

this book includes the outcomes of the international conference on advanced intelligent systems for sustainable development AI2SD 2018 held in Tangier Morocco on July 12-14 2018 presenting the latest research in the field of computing sciences and information technology it discusses new challenges and provides valuable insights into the field the goal being to stimulate debate and to promote closer interaction and interdisciplinary collaboration between researchers and practitioners though chiefly intended for researchers and practitioners in advanced information technology management and networking the book will also be of interest to those engaged in emerging fields such as data science and analytics big data internet of things smart networked systems artificial intelligence expert systems and cloud computing

Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) 2019-03-06

the field of soft computing is emerging from the cutting edge research over the last ten years devoted to fuzzy engineering and genetic algorithms the subject is being called soft computing and computational intelligence with acceptance of the research fundamentals in these important areas the field is expanding into direct applications through engineering and systems science this book covers the fundamentals of this emerging field as well as direct applications and case studies there is a need for practicing engineers computer scientists and system scientists to directly apply fuzzy engineering into a wide array of devices and systems

Soft Computing and Intelligent Systems 1999-10-28

this carefully edited book combines symbolic and sub symbolic techniques to construct more robust and reliable problem solving models this volume focused on hybrid artificial intelligence systems contains a collection of papers that were presented at the 2nd international workshop on hybrid artificial intelligence systems held in 12 13 november 2007 salamanca spain

Innovations in Hybrid Intelligent Systems 2007-12-22

this book reports on new theories and applications in the field of intelligent systems and computing it covers computational and artificial intelligence methods as well as advances in computer vision current issues in big data and cloud computing computation linguistics and cyber physical systems it also reports on important topics in intelligent information management written by active researchers the respective chapters are based on selected papers presented at the xiv international scientific and technical conference on computer science and information technologies csit 2019 held on september 17 20 2019 in lviv ukraine the conference was jointly organized 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

Advances in Intelligent Systems and Computing IV 2019-11-01

this book highlights recent research on intelligent systems and nature inspired computing it presents 62 selected papers from the 19th international conference on intelligent systems design and applications isda 2019 which was held online the isda is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry including contributions by authors from 33 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering

Intelligent Systems Design and Applications 2020-08-14

this book is a remarkable collection of chapters covering a wider range of topics including unsupervised text mining anomaly and intrusion detection self reconfiguring robotics application of fuzzy logic to development aid design and optimization context aware reasoning dna sequence assembly and multilayer perceptron networks the twenty one chapters present extended results from the sai intelligent systems conference intellisys 2015 and have been selected based on high recommendations during intellisys 2015 review process this book presents innovative research and development carried out presently in fields of knowledge representation and reasoning machine learning and particularly in intelligent systems in a more broad sense it provides state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research

Intelligent Systems and Applications 2018-05-31

principles for constructing intelligent systems design of logic based intelligent systems develops principles and methods for constructing intelligent systems for complex tasks that are readily done by humans but are difficult for machines current artificial intelligence ai approaches rely on various constructs and methods production rules neural nets support vector machines fuzzy logic bayesian networks etc in contrast this book uses an extension of propositional logic that treats all aspects of intelligent systems in a unified and mathematically compatible manner topics include levels of thinking and logic special cases expert systems and intelligent agents formulating and solving logic systems reasoning under uncertainty learning logic formulas from data nonmonotonic and incomplete reasoning question and answer processes intelligent systems that construct intelligent systems design of logic based intelligent systems is both a handbook for the ai practitioner and a textbook for advanced undergraduate and graduate courses on intelligent systems included are more than forty algorithms and numerous examples and exercises the purchaser of the book may obtain an accompanying software package leibniz system free of charge via the internet at leibnizsystem.com

Design of Logic-based Intelligent Systems 2004-05-20

this book highlights the recent research on hybrid intelligent systems and their various practical applications it presents 34 selected papers from the 18th international conference on hybrid intelligent systems his 2019 and 9 papers from the 15th international conference on information assurance and security ias 2019 which was held at vit bhopal university india from december 10 to 12 2019 a premier conference in the field of artificial intelligence his ias 2019 brought together researchers engineers and practitioners whose work involves intelligent systems network security and their applications in industry including contributions by authors from 20 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering

Hybrid Intelligent Systems 2020-08-12

this highly experienced author sets out to build a bridge between two inter disciplinary power engineering practices the book looks into two major fields used in modern power systems intelligent systems and the signal processing the intelligent systems section comprises fuzzy logic neural network and support vector machine the author looks at relevant theories on the topics without assuming much particular background following the theoretical basics he studies their applications in various problems in power engineering like load forecasting phase balancing or disturbance analysis

Intelligent Systems and Signal Processing in Power Engineering 2007-09-23

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

Intelligent Systems and Applications 2019

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