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## **Symbolic and Numerical Computation for Artificial Intelligence 1992**

over the last decade there has been considerable progress in investigating methods of symbolic mathematics in many application areas of computer science and artificial intelligence such as engineering design solid and geometric modelling robotics and motion planning and machine vision this research has produced few applications within engineering and robotics because of the combinatorial cost of symbolic techniques therefore it is essential to investigate approaches for systematic integration of symbolic with numerical techniques which are efficient for handling the huge amount of data that arises in practical applications while at the same time maintain a logically consistent solution framework symbolic and numerical computation for artificial intelligence gives an overview of applications in machine vision robotics and engineering design where there is a need for integrating symbolic and numerical methods it also illustrates the case for an integrated symbolic and numerical environment to support the needs of these applications this book will be essential reading for researchers in applied mathematics symbolic and algebraic manipulation and applied artificial intell

# **Intelligent Mathematics: Computational Analysis**

## **2011-03-19**

knowledge can be modeled and computed using computational mathematical methods then lead to real world conclusions the strongly related to that computational analysis is a very large area with lots of applications this monograph includes a great variety of topics of computational analysis we present probabilistic wavelet approximations constrained abstract approximation theory shape preserving weighted approximation non positive approximations to definite integrals discrete best approximation approximation theory of general picard singular operators including global smoothness preservation property fractional singular operators we also deal with non isotropic general picard singular multivariate operators and  $q$  gauss weierstrass singular  $q$  integral operators we talk about quantitative approximations by shift invariant univariate and multivariate integral operators nonlinear neural networks approximation convergence with rates of positive linear operators quantitative approximation by bounded linear operators univariate and multivariate quantitative approximation by stochastic positive linear operators on univariate and multivariate stochastic processes we further present right fractional calculus and give quantitative fractional korovkin theory of positive linear operators we also give analytical inequalities fractional opial inequalities fractional identities and inequalities regarding fractional integrals we further deal with semi

group operator approximation simultaneous feller probabilistic approximation we also present fuzzy singular operator approximations we give transfers from real to fuzzy approximation and talk about fuzzy wavelet and fuzzy neural networks approximations fuzzy fractional calculus and fuzzy ostrowski inequality we talk about discrete fractional calculus nabla discrete fractional calculus and inequalities we study the q inequalities and q fractional inequalities we further study time scales delta and nabla approaches duality principle and inequalities we introduce delta and nabla time scales fractional calculus and inequalities we finally study convergence with rates of approximate solutions to exact solution of multivariate dirichlet problem and multivariate heat equation and discuss the uniqueness of solution of general evolution partial differential equation in multivariate time the exposed results are expected to find applications to applied and computational mathematics stochastics engineering artificial intelligence vision complexity and machine learning this monograph is suitable for graduate students and researchers

## **Computational Intelligence 2006-01-16**

computational intelligence principles techniques and applications presents both theories and applications of computational intelligence in a clear precise and highly comprehensive style the textbook addresses the fundamental aspects of fuzzy sets and logic neural networks evolutionary computing and belief networks the application areas include fuzzy databases

fuzzy control image understanding expert systems object recognition criminal investigation telecommunication networks and intelligent robots the book contains many numerical examples and homework problems with sufficient hints so that the students can solve them on their own

## **Intelligent Computing in Optimal Design 2020-01-01**

the book is devoted to intelligent design of structures as a novel kind of designing based on computational intelligence the proposed methodology based on computational intelligence has some heuristic and learning attributes typical for natural intelligence computer models of the structures are built on the base of the finite element method fem the boundary element method bem or coupling of fem and bem the short description of possible discrete models of structures using these methods is included in the chapter 2 various kinds of intelligent approaches using sequential parallel distributed fuzzy and hybrid evolutionary immune and particle swarm algorithms and neural computing are presented in chapter 3 different kinds of optimization such as shape topology size and material optimization for structures under static and dynamical mechanical and thermo mechanical loadings structures with cracks and composite structures are considered in chapter 4 multi objective optimization for coupled problems is also taken into account several numerical examples illustrating these kinds of optimization are presented for 2 d plane stress or plane strain plates shells as well as 3 d

structures chapter 5 is devoted to special problems related to solving inverse problems in which boundary conditions defects such as voids or cracks and material characteristics are unknown closing comments summarizing the book are presented in chapter 6

## **From Curve Fitting to Machine Learning 2011-07-28**

the analysis of experimental data is at heart of science from its beginnings but it was the advent of digital computers that allowed the execution of highly non linear and increasingly complex data analysis procedures methods that were completely unfeasible before non linear curve fitting clustering and machine learning belong to these modern techniques which are a further step towards computational intelligence the goal of this book is to provide an interactive and illustrative guide to these topics it concentrates on the road from two dimensional curve fitting to multidimensional clustering and machine learning with neural networks or support vector machines along the way topics like mathematical optimization or evolutionary algorithms are touched all concepts and ideas are outlined in a clear cut manner with graphically depicted plausibility arguments and a little elementary mathematics the major topics are extensively outlined with exploratory examples and applications the primary goal is to be as illustrative as possible without hiding problems and pitfalls but to address them the character of an illustrative cookbook is complemented with specific sections that address more fundamental questions like the relation between machine learning and human

intelligence these sections may be skipped without affecting the main road but they will open up possibly interesting insights beyond the mere data message all topics are completely demonstrated with the aid of the commercial computing platform mathematica and the computational intelligence packages cip a high level function library developed with mathematica s programming language on top of mathematica s algorithms cip is open source so the detailed code of every method is freely accessible all examples and applications shown throughout the book may be used and customized by the reader without any restrictions the target readerships are students of computer science and engineering as well as scientific practitioners in industry and academia who deserve an illustrative introduction to these topics readers with programming skills may easily port and customize the provided code

## **Numbers, Intelligence, Manufacturing Technology and Machinery Automation 2011-10-24**

volume is indexed by thomson reuters cpci s was the aim of this collection of peer reviewed papers is to strengthen academic exchange and cooperation in the field to promote the rapid development of machinery materials science and engineering applications to improve the academic status of manufacturing technology and machinery automation and to extend

china s international influence by reducing the separation between domestic concerns and world class research

## **Artificial Intelligence By Example 2018-05-31**

be an adaptive thinker that leads the way to artificial intelligence key features ai based examples to guide you in designing and implementing machine intelligence develop your own method for future ai solutions acquire advanced ai machine learning and deep learning design skills book description artificial intelligence has the potential to replicate humans in every field this book serves as a starting point for you to understand how ai is built with the help of intriguing examples and case studies artificial intelligence by example will make you an adaptive thinker and help you apply concepts to real life scenarios using some of the most interesting ai examples right from a simple chess engine to a cognitive chatbot you will learn how to tackle the machine you are competing with you will study some of the most advanced machine learning models understand how to apply ai to blockchain and iot and develop emotional quotient in chatbots using neural networks you will move on to designing ai solutions in a simple manner rather than get confused by complex architectures and techniques this comprehensive guide will be a starter kit for you to develop ai applications on your own by the end of this book will have understood the fundamentals of ai and worked through a number of case studies that will help you develop business vision what you will

learn use adaptive thinking to solve real life ai case studies rise beyond being a modern day factory code worker acquire advanced ai machine learning and deep learning designing skills learn about cognitive nlp chatbots quantum computing and iot and blockchain technology understand future ai solutions and adapt quickly to them develop out of the box thinking to face any challenge the market presents who this book is for artificial intelligence by example is a simple explanatory and descriptive guide for junior developers experienced developers technology consultants and those interested in ai who want to understand the fundamentals of artificial intelligence and implement it practically by devising smart solutions prior experience with python and statistical knowledge is essential to make the most out of this book

## **Intelligent Algorithms in Ambient and Biomedical Computing 2006-09-09**

this book is the outcome of a series of discussions at the philips symposium on intelligent algorithms held in eindhoven in december 2004 it offers exciting and practical examples of the use of intelligent algorithms in ambient and biomedical computing it contains topics such as bioscience computing database design machine consciousness scheduling video summarization audio classification semantic reasoning machine learning tracking and

localization secure computing and communication

## **AI 2009: Advances in Artificial Intelligence 2009-11-18**

this book constitutes the refereed proceedings of the 22nd australasian joint conference on artificial intelligence ai 2009 held in melbourne australia in december 2009 the 68 revised full papers presented were carefully reviewed and selected from 174 submissions the papers are organized in topical sections on agents ai applications computer vision and image processing data mining and statistical learning evolutionary computing game playing knowledge representation and reasoning natural language and speech processing soft computing and user modelling

## ***Green and Intelligent Technologies for Sustainable and Smart Asphalt Pavements 2021-11-25***

green and intelligent technologies for sustainable and smart asphalt pavements contains 124 papers from 14 different countries which were presented at the 5th international symposium on frontiers of road and airport engineering ifrae 2021 delft the netherlands 12 14 july 2021 the contributions focus on research in the areas of circular sustainable and smart airport and

highway pavement and collects the state of the art and state of practice areas of long life and circular materials for sustainable cost effective smart airport and highway pavement design and construction the main areas covered by the book include green and sustainable pavement materials recycling technology warm cold mix asphalt materials functional pavement design self healing pavement materials eco efficiency pavement materials pavement preservation maintenance and rehabilitation smart pavement materials and structures safety technology for smart roads pavement monitoring and big data analysis role of transportation engineering in future pavements green and intelligent technologies for sustainable and smart asphalt pavements aims at researchers practitioners and administrators interested in new materials and innovative technologies for achieving sustainable and renewable pavement materials and design methods and for those involved or working in the broader field of pavement engineering

## **Computational Intelligence and Security 2007-09-13**

the refereed post proceedings of the international conference on computational intelligence and security are presented in this volume the 116 papers were submitted to two rounds of careful review papers cover bio inspired computing evolutionary computation learning systems and multi agents cryptography information processing and intrusion detection systems and security image and signal processing and pattern recognition

## ***Artificial Intelligence and Soft Computing 2017-06-01***

the two volume set Inai 10245 and Inai 10246 constitutes the refereed proceedings of the 16th international conference on artificial intelligence and soft computing icaisc 2017 held in zakopane poland in june 2017 the 133 revised full papers presented were carefully reviewed and selected from 274 submissions the papers included in the second volume are organized in the following five parts data mining artificial intelligence in modeling simulation and control various problems of artificial intelligence special session advances in single objective continuous parameter optimization with nature inspired algorithms special session stream data mining

## **Intelligent Instrumentation 2010-11-17**

with the advent of microprocessors and digital processing technologies as catalyst classical sensors capable of simple signal conditioning operations have evolved rapidly to take on higher and more specialized functions including validation compensation and classification this new category of sensor expands the scope of incorporating intelligence into instrumentation systems yet with such rapid changes there has developed no universal standard for design definition or requirement with which to unify intelligent instrumentation explaining the underlying design methodologies of intelligent instrumentation intelligent

instrumentation principles and applications provides a comprehensive and authoritative resource on the scientific foundations from which to coordinate and advance the field employing a textbook like language this book translates methodologies to more than 80 numerical examples and provides applications in 14 case studies for a complete and working understanding of the material beginning with a brief introduction to the basic concepts of process process parameters sensors and transducers and classification of transducers the book describes the performance characteristics of instrumentation and measurement systems and discusses static and dynamic characteristics various types of sensor signals and the concepts of signal representations various transforms and their operations in both static and dynamic conditions it describes smart sensors cogent sensors soft sensors self validating sensors vlsi sensors temperature compensating sensors microcontrollers and ann based sensors and indirect measurement sensors the author examines intelligent sensor signal conditioning such as calibration linearization and compensation along with a wide variety of calibration and linearization techniques using circuits analog to digital converters adcs microcontrollers anns and software the final chapters highlight ann techniques for pattern classification recognition prognostic diagnosis fault detection linearization and calibration as well as important interfacing protocols in the wireless networking platform

## **Artificial Intelligence Applications and Innovations**

### **2013-09-03**

this book constitutes the refereed proceedings of the 9th ifip wg 12 5 international conference on artificial intelligence applications and innovations aiai 2013 held in paphos cyprus in september october 2013 the 26 revised full papers presented together with a keynote speech at the main event and 44 papers of 8 collocated workshops were carefully reviewed and selected for inclusion in the volume the papers of the main event are organized in topical sections on data mining medical informatics and biomedical engineering problem solving and scheduling modeling and decision support systems robotics and intelligent signal and image processing

## **AI 2001: Advances in Artificial Intelligence 2001-11-28**

this book constitutes the refereed proceedings of the 14th australian joint conference on artificial intelligence ai 2001 held in adelaide australia in december 2001 the 55 revised full papers presented together with one invited contribution were carefully reviewed and selected from a total of 100 submissions the papers cover the whole range of artificial intelligence from theoretical and foundational issues to advanced applications in a variety of fields

## **Encyclopedia of Artificial Intelligence 2009-01-01**

this book is a comprehensive and in depth reference to the most recent developments in the field covering theoretical developments techniques technologies among others provided by publisher

## **Learn Python From an Expert: The Complete Guide: With Artificial Intelligence 2023-06-08**

the ultimate guide to advanced python and artificial intelligence unleash the power of code are you ready to take your python programming skills to the next level and dive into the exciting world of artificial intelligence look no further we proudly present the comprehensive book written by renowned author edson l p camacho advanced python mastering ai in today s rapidly evolving technological landscape the demand for ai professionals is soaring python with its simplicity and versatility has become the go to language for ai development whether you are a seasoned pythonista or a beginner eager to learn this book is your gateway to mastering ai concepts and enhancing your programming expertise what sets advanced python mastering ai apart from other books is its unparalleled combination of in depth theory and hands on practicality edson l p camacho a leading expert in the field guides you through

every step from laying the foundation of python fundamentals to implementing cutting edge ai algorithms here s a glimpse of what you ll find within the pages of this comprehensive guide

- 1 python fundamentals review and reinforce your knowledge of python basics including data types control flow functions and object oriented programming build a solid foundation to tackle complex ai concepts
- 2 data manipulation and visualization learn powerful libraries such as numpy pandas and matplotlib to handle and analyze data understand how to preprocess and visualize data effectively for ai applications
- 3 machine learning essentials dive into the world of machine learning and explore popular algorithms like linear regression decision trees support vector machines and neural networks discover how to train evaluate and optimize models for various tasks
- 4 deep learning and neural networks delve deeper into neural networks the backbone of modern ai gain insights into deep learning architectures including convolutional neural networks cnns and recurrent neural networks rnns implement advanced techniques like transfer learning and generative models
- 5 natural language processing nlp explore the fascinating field of nlp and learn how to process and analyze textual data using python discover techniques like sentiment analysis named entity recognition and text generation
- 6 computer vision unleash the power of python for image and video analysis build computer vision applications using popular libraries like opencv and tensorflow understand concepts like object detection image segmentation and image captioning
- 7 reinforcement learning embark on the exciting journey of reinforcement learning master the fundamentals of q learning policy gradients and deep q networks create

intelligent agents that can learn and make decisions in dynamic environments advanced python mastering ai not only equips you with the theoretical knowledge but also provides numerous real world examples and projects to reinforce your understanding each chapter is accompanied by practical exercises and coding challenges to sharpen your skills and boost your confidence don t miss the opportunity to stay ahead in this ai driven era order your copy of advanced python mastering ai today and unlock the full potential of python programming with artificial intelligence take your career to new heights and become a proficient ai developer get ready to write the code that shapes the future

## **Computational Intelligence in Remanufacturing** ***2013-12-31***

in attempts to reduce greenhouse gas emissions many alternatives to manufacturing have been recommended from a number of international organizations although challenges will arise remanufacturing has the ability to transform ecological and business value computational intelligence in remanufacturing introduces various computational intelligence techniques that are applied to remanufacturing related issues results and lessons from specific applications while highlighting future development and research this book is an essential reference for students researchers and practitioners in mechanical industrial and

electrical engineering

## **Artificial Intelligence in Industry 4.0 and 5G Technology 2022-06-30**

artificial intelligence in industry 4 0 and 5g technology explores innovative and value added solutions for application problems in the commercial business and industry sectors as the pace of artificial intelligence ai technology innovation continues to accelerate identifying the appropriate ai capabilities to embed in key decision processes has never been more critical to establishing competitive advantage new and emerging analytics tools and technologies can be configured to optimize business value change how an organization gains insights and significantly improve the decision making process across the enterprise artificial intelligence in industry 4 0 and 5g technology helps readers solve real world technological engineering optimization problems using evolutionary and swarm intelligence mathematical programming multi objective optimization and other cutting edge intelligent optimization methods contributions from leading experts in the field present original research on both the theoretical and practical aspects of implementing new ai techniques in a variety of sectors including big data analytics smart manufacturing renewable energy smart cities robotics and the internet of things iot presents detailed information on meta heuristic applications with a

focus on technology and engineering sectors such as smart manufacturing smart production innovative cities and 5g networks offers insights into the use of metaheuristic strategies to solve optimization problems in business economics finance and industry where uncertainty is a factor provides guidance on implementing metaheuristics in different applications and hybrid technological systems describes various ai approaches utilizing hybrid meta heuristics optimization algorithms including meta search engines for innovative research and hyper heuristics algorithms for performance measurement artificial intelligence in industry 4 0 and 5g technology is a valuable resource for it specialists industry professionals managers and executives researchers scientists engineers and advanced students an up to date reference to innovative computing uncertainty management and optimization approaches

## **Intelligence Systems in Environmental Management: Theory and Applications 2016-09-03**

this book offers a comprehensive reference guide to intelligence systems in environmental management it provides readers with all the necessary tools for solving complex environmental problems where classical techniques cannot be applied the respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts including ant colony genetic algorithms evolutionary algorithms fuzzy multi criteria

decision making tools particle swarm optimization agent based modelling artificial neural networks simulated annealing tabu search fuzzy multi objective optimization fuzzy rules support vector machines fuzzy cognitive maps cumulative belief degrees and many others to foster a better understanding all the chapters include relevant numerical examples or case studies taken together they form an excellent reference guide for researchers lecturers and postgraduate students pursuing research on complex environmental problems moreover by extending all the main aspects of classical environmental solution techniques to its intelligent counterpart the book presents a dynamic snapshot on the field that is expected to stimulate new directions and stimulate new ideas and developments

## ***Advances in Web Intelligence 2003-08-03***

we are pleased to present the proceedings of the 2003 atlantic intelligence conference awic 2003 the conference was located in madrid spain during may 5 6 2003 organized locally by the technical university of madrid awic 2003 aimed to be the first of a series of conferences on intelligence to be celebrated annually alternatively in europe and america starting in madrid it was born as an activity of the recently created wic poland research centre and the wic spain research centre both belonging to the web intelligence consortium wic wi consortium org awic 2003 was supported with grants from the spanish ministry for science and technology and the european network of excellence in knowledge discovery kdnet awic 2003 brought

together scientists engineers computer users and students to exchange and share their experiences new ideas and research results about all aspects theory applications and tools of artificial intelligence techniques applied to based systems and to discuss the practical challenges encountered and the solutions adopted almost 70 contributions were submitted after a preliminary evaluation 60 of these papers were accepted to the conference and were assigned at least two reviewers from the international program committee out of this 60 33 were conditionally accepted and 32 of them were finally accepted after the conditions set by the reviewers had been met which resulted in an acceptance ratio of 45

## **Advances and Applications of Artificial Intelligence & Machine Learning 2023-12-21**

this volume comprises the select peer reviewed proceedings of the international conference on advances and applications of artificial intelligence and machine learning 2022 (icaaaaiml 2022) it aims to provide a comprehensive and broad spectrum picture of state of the art research and development in the areas of artificial intelligence machine learning deep learning and their advanced applications in computer vision and blockchain it also covers research in core concepts of computers intelligent system design and deployment real time systems wsn sensors and sensor nodes software engineering image processing and cloud

computing this volume will provide a valuable resource for those in academia and industry

## ***Trends in Mathematics and Computational Intelligence*** **2018-10-08**

this book presents appealing contributions on computational intelligence and mathematics connecting both areas and offering solutions to a number of interesting real world problems such problems often require novel solutions as complexity exceeds the tractable size at the same time the need for good quality realistic solutions results in models and algorithms with a good balance of resource intensiveness and model quality accuracy many areas of knowledge call for hybrid solutions that combine traditional mathematical techniques and computational intelligence based on subsymbolic knowledge representation important research topics are focused on developing the interaction between computational intelligence and mathematics in order to address various challenges of the current technological age written by influential leading researchers this book discusses the latest trends in hybridising mathematics and computational intelligence

## **Progress in Intelligent Decision Science 2021-01-29**

this book contains the topics of artificial intelligence and deep learning that do have much application in real life problems the concept of uncertainty has long been used in applied science especially decision making and a logical decision must be made in the field of uncertainty or in the real life environment that is formed and combined with vague concepts and data the chapters of this book are connected to the new concepts and aspects of decision making with uncertainty besides other chapters are involved with the concept of data mining and decision making under uncertain computations

## ***Developments Of Artificial Intelligence Technologies In Computation And Robotics - Proceedings Of The 14th International Flins Conference (Flins 2020) 2020-08-04***

flins an acronym introduced in 1994 and originally for fuzzy logic and intelligent technologies in nuclear science is now extended into a well established international research forum to advance the foundations and applications of computational intelligence for applied research in general and for complex engineering and decision support systems the principal mission of flins is bridging the gap between machine intelligence and real complex systems via joint

research between universities and international research institutions encouraging interdisciplinary research and bringing multidiscipline researchers together flins 2020 is the fourteenth in a series of conferences on computational intelligence systems

## **Artificial Intelligence and Soft Computing, Part I 2010-06**

the Inai series reports state of the art results in artificial intelligence research development education at a high level and in both printed and electronic form enjoying tight cooperation with the r d community with numerous individuals as well as with prestigious organizations and societies Inai has grown into the most comprehensive artificial intelligence research forum available the scope of Inai spans the whole range of artificial intelligence and intelligent information processing including interdisciplinary topics in a variety of application fields

## **Customer Oriented Product Design 2020-03-19**

this book offers a comprehensive reference guide to customer oriented product design and intelligence it provides readers with the necessary intelligent tools for designing customer

oriented products in contexts characterized by incomplete information or insufficient data where classical product design approaches cannot be applied the respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts including fuzzy qfd fuzzy fmea the fuzzy kano model fuzzy axiomatic design fuzzy heuristics based design conjoint analysis based design and many others to foster reader comprehension all chapters include relevant numerical examples or case studies taken together they form an excellent reference guide for researchers lecturers and postgraduate students pursuing research on customer oriented product design moreover by extending all the main aspects of classical customer oriented product design to its intelligent and fuzzy counterparts the book presents a dynamic snapshot of the field that is expected to stimulate new directions ideas and developments

## ***Artificial Intelligence Techniques in Prolog 2014-05-12***

artificial intelligence techniques in prolog introduces the reader to the use of well established algorithmic techniques in the field of artificial intelligence ai with prolog as the implementation language the techniques considered cover general areas such as search rule based systems and truth maintenance as well as constraint satisfaction and uncertainty management specific application domains such as temporal reasoning machine learning and natural language are also discussed comprised of 10 chapters this book begins with an

overview of prolog paying particular attention to prolog terms and rules and prolog facts as special cases unification the and or computation tree induced by a prolog program and a query the depth first left to right traversal of that tree by the standard prolog interpreter and built in predicates such as unification and equality subsequent chapters deal with search and representation of graphs in prolog backward chaining methods truth maintenance systems and constraint satisfaction reasoning with uncertainty planning and temporal reasoning and machine learning are also tackled the book concludes with an assessment of natural language processing and some of the linguistic notions that are easily encoded in prolog this monograph will be of interest to both students and practitioners in the fields of ai and computer science

## **Artificial Intelligence and Industrial Applications**

**2023-10-16**

amid the dynamic growth of artificial intelligence this book presents a collection of findings and advancements from the second edition of the a2ia artificial intelligence and industrial applications conference the conference hosted by ensam meknès at moulay ismail university morocco fosters knowledge exchange in ai focusing primarily on its industrial applications covering a wide range of topics the book highlights the adaptable nature of ai and its

increasing impact on industrial sectors it brings together contributions from an international cohort of researchers discussing themes such as intelligent manufacturing and maintenance intelligent supply chain management various modes of learning including supervised unsupervised reinforcement semi supervised and graph based as well as neural networks deep learning planning and optimization a defining feature of this edition is its extensive scope and emphasis on the practical applications of ai along with its foundational elements it facilitates an understanding of ai s current state and potential future direction showcasing recent developments that bridge the gap between theory and practice designed for a diverse readership this book is of interest to ai practitioners academics and enthusiasts as well as to those new to the field it provides an opportunity to explore ai s critical role in industrial applications and the practical insights it offers are likely to be beneficial for decision making within industrial settings

## ***Artificial Intelligence. An International Perspective*** **2009-09-19**

artificial intelligence ai is a rapidly growing inter disciplinary field with a long and distinguished history that involves many countries and considerably pre dates the development of computers it can be traced back at least as far as ancient greece and has

evolved over time to become a major subfield of computer science in general this state of the art survey not only serves as a position paper on the field from the viewpoint of expert members of the ifip technical committee 12 its working groups and their colleagues but also presents overviews of current work in different countries the chapters describe important relatively new or emerging areas of work in which the authors are personally involved including text and hypertext categorization autonomous systems affective intelligence ai in electronic healthcare systems artifact mediated society and social intelligence design multilingual knowledge management agents intelligence and tools intelligent user profiling and supply chain business intelligence they provide an interesting international perspective on where this significant field is going at the end of the first decade of the twenty first century

## **Intelligence Methods and Systems Advancements for Knowledge-Based Business 2012-07-31**

knowledge is power in today s era of knowledge based economies constantly changing business environments severe competition and globalization gaining the knowledge edge will greatly empower an organization to stay on the cutting edge intelligence methods and systems advancements for knowledge based business examines state of the art research in

decision sciences and business intelligence and the applications of knowledge based business with information systems this comprehensive volume will provide researchers academics and business professionals with the research and inspiration they need to strengthen and empower their businesses in today s world

## **Artificial Intelligence - A Beginner Guide 2010-01-05**

dive into the captivating world of artificial intelligence ai with our comprehensive book designed for learners at all levels this book offers an in depth exploration of the fundamental concepts techniques and real world applications of ai whether you re a beginner curious about ai or an experienced professional looking to deepen your expertise this book will equip you with the knowledge and skills needed to navigate the ever evolving ai landscape starting with the basics you ll learn about ai definitions and key milestones as you progress you ll delve into core topics such as machine learning deep learning neural networks natural language processing and computer vision each chapter is designed to build on your understanding culminating in advanced topics like ai ethics policy and future implications you ll gain practical experience in implementing ai solutions you ll also have the opportunity to work with popular ai tools and platforms preparing you for real world challenges by the end of this book you ll have a robust understanding of ai s capabilities and limitations and be well prepared to apply ai solutions in various industries including healthcare finance and

technology

## **Computational Intelligence Paradigms 2012-03-31**

offering a wide range of programming examples implemented in matlab computational intelligence paradigms theory and applications using matlab presents theoretical concepts and a general framework for computational intelligence ci approaches including artificial neural networks fuzzy systems evolutionary computation genetic algorithms and programming and swarm intelligence it covers numerous intelligent computing methodologies and algorithms used in ci research the book first focuses on neural networks including common artificial neural networks neural networks based on data classification data association and data conceptualization and real world applications of neural networks it then discusses fuzzy sets fuzzy rules applications of fuzzy systems and different types of fused neuro fuzzy systems before providing matlab illustrations of anfis classification and regression trees fuzzy c means clustering algorithms fuzzy art map and takagi sugeno inference systems the authors also describe the history advantages and disadvantages of evolutionary computation and include solved matlab programs to illustrate the implementation of evolutionary computation in various problems after exploring the operators and parameters of genetic algorithms they cover the steps and matlab routines of genetic programming the final chapter introduces swarm intelligence and its applications

particle swarm optimization and ant colony optimization full of worked examples and end of chapter questions this comprehensive book explains how to use matlab to implement ci techniques for the solution of biological problems it will help readers with their work on evolution dynamics self organization natural and artificial morphogenesis emergent collective behaviors swarm intelligence evolutionary strategies genetic programming and the evolution of social behaviors

## **Logistics Management and Optimization through Hybrid Artificial Intelligence Systems 2019-11-21**

this book offers the latest research within the field of hais surveying the broad topics and collecting case studies future directions and cutting edge analyses investigating biologically inspired algorithms such as ant colony optimization and particle swarm optimization

## ***Turning I Can't Into I Can 2010-12-15***

this book constitutes the refereed proceedings of the third symposium of the norwegian ai society nais 2019 held in trondheim norway in may 2019 the 11 full papers and 3 short papers were carefully reviewed and selected from 21 submissions the papers focus on all

aspects of artificial intelligence machine learning knowledge representation robotics planning and scheduling natural language processing computer vision search algorithms multi agent systems industrial applications and philosophical and ethical foundations

## **Nordic Artificial Intelligence Research and Development 2011-12-03**

the 30 coherently written chapters by leading researchers presented in this anthology are devoted to basic results achieved in computational intelligence since 1997 the book provides complete coverage of the core issues in the field especially in fuzzy logic and control as well as for evolutionary optimization algorithms including genetic programming in a comprehensive and systematic way theoretical and methodological investigations are complemented by prototypic applications for design and management tasks in electrical engineering mechanical engineering and chemical engineering this book will become a valuable source of reference for researchers active in computational intelligence advanced students and professionals interested in learning about and applying advanced techniques of computational intelligence will appreciate the book as a useful guide enhanced by numerous examples and applications in a variety of fields

## **Advances in Computational Intelligence 2016-06-20**

this book constitutes the refereed proceedings of the 24th australasian joint conference on artificial intelligence ai 2011 held in perth australia in december 2011 the 82 revised full papers presented were carefully reviewed and selected from 193 submissions the papers are organized in topical sections on data mining and knowledge discovery machine learning evolutionary computation and optimization intelligent agent systems logic and reasoning vision and graphics image processing natural language processing cognitive modeling and simulation technology and ai applications

## ***AI 2011: Advances in Artificial Intelligence 2013-02-19***

developments in the areas of biology and bioinformatics are continuously evolving and creating a plethora of data that needs to be analyzed and decrypted since it can be difficult to decipher the multitudes of data within these areas new computational techniques and tools are being employed to assist researchers in their findings the handbook of research on computational intelligence applications in bioinformatics examines emergent research in handling real world problems through the application of various computation technologies and techniques featuring theoretical concepts and best practices in the areas of computational intelligence artificial intelligence big data and bio inspired computing this

publication is a critical reference source for graduate students professionals academics and researchers

## **Handbook of Research on Computational Intelligence Applications in Bioinformatics**

business professionals who want to advance their careers need to have a strong understanding of how to utilize business intelligence this new book provides a comprehensive introduction to the basic business and technical concepts they ll need to know it integrates case studies that demonstrate how to apply the material business professionals will also find suggested further readings that will develop their knowledge and help them succeed

### ***Business Intelligence***

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