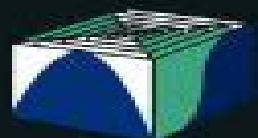




Soft Computing Series — Volume 5

A New Paradigm of Knowledge Engineering by Soft Computing

Editor: Liya Ding



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New Paradigm Of Knowledge Engineering By Soft Computing

**Paul Mason, Charles R. Fisher, Ryan
Glamm, Michele V. Manuel, Georg J.
Schmitz, Amarendra K. Singh, Alejandro
Strachan**

New Paradigm Of Knowledge Engineering By Soft Computing:

A New Paradigm of Knowledge Engineering by Soft Computing Liya Ding, 2001 Soft computing SC consists of several computing paradigms including neural networks fuzzy set theory approximate reasoning and derivative free optimization methods such as genetic algorithms The integration of those constituent methodologies forms the core of SC In addition the synergy allows SC to incorporate human knowledge effectively deal with imprecision and uncertainty and learn to adapt to unknown or changing environments for better performance Together with other modern technologies SC and its applications exert unprecedented influence on intelligent systems that mimic human intelligence in thinking learning reasoning and many other aspects Knowledge engineering KE which deals with knowledge acquisition representation validation inferencing explanation and maintenance has made significant progress recently owing to the indefatigable efforts of researchers Undoubtedly the hot topics of data mining and knowledge data discovery have injected new life into the classical AI world This book tells readers how KE has been influenced and extended by SC and how SC will be helpful in pushing the frontier of KE further It is intended for researchers and graduate students to use as a reference in the study of knowledge engineering and intelligent systems The reader is expected to have a basic knowledge of fuzzy logic neural networks genetic algorithms and knowledge based systems Contents Knowledge Engineering and Soft Computing OCo An Introduction L Y Ding Fuzzy Knowledge Based Systems Linguistic Integrity A Framework for Fuzzy Modeling OCo AFRELI Algorithm J Espinosa A New Approach to Acquisition of Comprehensible Fuzzy Rules H Ohno Fuzzy Rule Generation with Fuzzy Singleton Type Reasoning Method Y Shi Antecedent Validity Adaptation Principle for Table Look Up Scheme P T Chan Fuzzy Spline Interpolation in Sparse Fuzzy Rule Bases M F Kawaguchi Revision Principle Applied for Approximate Reasoning L Y Ding et al Handling Null Queries with Compound Fuzzy Attributes S L Wang Fuzzy System Description Language K Otsuka et al Knowledge Representation Integration and Discovery by Soft Computing Knowledge Representation and Similarity Measure in Learning a Vague Legal Concept M Q Xu et al Trend Fuzzy Sets and Recurrent Fuzzy Rules for Ordered Dataset Modelling J F Baldwin et al Approaches to the Design of Classification Systems from Numerical Data and Linguistic Knowledge H Ishibuchi et al A Clustering Based on Self Organizing Map and Knowledge Discovery by Neural Network K Nakagawa et al Probabilistic Rough Induction J Z Dong et al Data Mining via Linguistic Summaries of Databases An Interactive Approach J Kacprzyk and other papers Readership Graduate students researchers and lecturers in knowledge engineering and soft computing *Soft Computing for Information Processing and Analysis* Masoud Nikravesh, Lofti A. Zadeh, 2006-07-02 Search engines with Google at the top have become the most heavily used online service with millions of searches performed every day and many remarkable capabilities Soft Computing for Information Processing and Analysis includes reports from the front of soft computing in the internet industry and imparts knowledge and understanding of the significance of the field s accomplishments new developments and future directions This carefully edited book has evolved from presentations made by

the participants of a meeting entitled Fuzzy Logic and the Internet Enhancing the Power of the Internet organized by the Berkeley Initiative in Soft Computing BISC University of California Berkeley It addresses the important topics of modern search engines such as fuzzy query decision analysis and support systems including articles about topics such as Web Intelligence World Knowledge and Fuzzy Logic by Lotfi A Zadeh perception based information processing or web intelligence

Handbook of Software Engineering & Knowledge Engineering Shi Kuo Chang, 2002 This is the first handbook to cover comprehensively both software engineering and knowledge engineering two important fields that have become interwoven in recent years Over 60 international experts have contributed to the book Each chapter has been written in such a way that a practitioner of software engineering and knowledge engineering can easily understand and obtain useful information Each chapter covers one topic and can be read independently of other chapters providing both a general survey of the topic and an in depth exposition of the state of the art Practitioners will find this handbook useful when looking for solutions to practical problems Researchers can use it for quick access to the background current trends and most important references regarding a certain topic The handbook consists of two volumes Volume One covers the basic principles and applications of software engineering and knowledge engineering Volume Two will cover the basic principles and applications of visual and multimedia software engineering knowledge engineering data mining for software knowledge and emerging topics in software engineering and knowledge engineering

Pattern Recognition In Softcomputing Paradigm Nikhil R Pal, 2001-02-05 Pattern recognition PR consists of three important tasks feature analysis clustering and classification Image analysis can also be viewed as a PR task Feature analysis is a very important step in designing any useful PR system because its effectiveness depends heavily on the set of features used to realise the system A distinguishing feature of this volume is that it deals with all three aspects of PR namely feature analysis clustering and classifier design It also encompasses image processing methodologies and image retrieval with subjective information The other interesting aspect of the volume is that it covers all three major facets of soft computing fuzzy logic neural networks and evolutionary computing

Handbook Of Software Engineering And Knowledge Engineering, Vol 3: Recent Advances Shi-kuo Chang, 2005-08-25 The book covers the recent new advances in software engineering and knowledge engineering It is intended as a supplement to the two volume handbook of software engineering and knowledge engineering The editor and authors are well known international experts in their respective fields of expertise Each chapter in the book is entirely self contained and gives in depth information on a specific topic of current interest This book will be a useful desktop companion for both practitioners and students of software engineering and knowledge engineering

Advances in Software Engineering and Knowledge Engineering Vincenzo Ambriola, Genoveffa Tortora, 1993 The papers collected in the book were invited by the editors as tutorial courses or keynote speeches for the Fourth International Conference on Software Engineering and Knowledge Engineering It was the editors intention that this book should offer a wide coverage of the main topics involved with the specifications prototyping

development and maintenance of software systems and knowledge based systems The main issues in the area of software engineering and knowledge engineering are addressed and for each analyzed topic the corresponding of state research is reported

Brainware Tsutomu Miki, 2001 The human brain the ultimate intelligent processor can handle ambiguous and uncertain information adequately The implementation of such a human brain architecture and function is called OC brainware

OCO Brainware is a candidate for the new tool that will realize a human friendly computer society As one of the LSI implementations of brainware a OC bio inspired OCO hardware system is discussed in this book Consisting of eight enriched versions of papers selected from IIZUKA 98 this volume provides wide coverage from neuronal function devices to vision systems chaotic systems and also an effective design methodology of hierarchical large scale neural systems inspired by neuroscience It can serve as a reference for graduate students and researchers working in the field of brainware It is also a source of inspiration for research towards the realization of a silicon brain

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MOS Cellular Automaton Circuit for Picture Processing M Ikebe Semiconductor Chaos Generating Elements of Simple Structure and Their Integration K Hoh et al Computation in Single Neuron with Dendritic Trees N Katayama et al

Readership Graduate students researchers and industrialists in artificial intelligence neural networks machine perception computer vision pattern handwriting recognition image analysis and biocomputing

Knowledge-Based Intelligent Information and Engineering Systems Vasile Palade, 2003-08-28 During recent decades we have witnessed not only the introduction of automation into the work environment but we have also seen a dramatic change in how automation has influenced the conditions of work While some 30 years ago the addition of a computer was considered only for routine and boring tasks in support of humans the balance has dramatically shifted to the computer being able to perform almost any task the human is willing to delegate The very fast pace of change in processor and information technology has been the main driving force behind this development Advances in automation and especially Artificial Intelligence AI have enabled the formation of a rather unique team with human and electronic members The team is still supervised by the human with the machine as a subordinate associate or assistant sharing responsibility authority and autonomy over many tasks The requirement for teaming human and machine in a highly dynamic and unpredictable task environment has led to impressive achievements in many supporting technologies These include methods for system analysis design and engineering and in particular for information processing for cognitive and complex knowledge

1 engineering

Engineering and Managing Software Requirements Aybüke Aurum, Claes Wohlin, 2006-04-07 Requirements engineering is the process by which the requirements for software systems are gathered analyzed documented and managed throughout

their complete lifecycle. Traditionally it has been concerned with technical goals for functions of and constraints on software systems. Aurum and Wohlin however argue that it is no longer appropriate for software systems professionals to focus only on functional and non functional aspects of the intended system and to somehow assume that organizational context and needs are outside their remit. Instead they call for a broader perspective in order to gain a better understanding of the interdependencies between enterprise stakeholders processes and software systems which would in turn give rise to more appropriate techniques and higher quality systems. Following an introductory chapter that provides an exploration of key issues in requirements engineering the book is organized in three parts. Part 1 presents surveys of state of the art requirements engineering process research along with critical assessments of existing models frameworks and techniques. Part 2 addresses key areas in requirements engineering such as market driven requirements engineering goal modeling requirements ambiguity and others. Part 3 concludes the book with articles that present empirical evidence and experiences from practices in industrial projects. Its broader perspective gives this book its distinct appeal and makes it of interest to both researchers and practitioners not only in software engineering but also in other disciplines such as business process engineering and management science.

Proceedings of the 4th World Congress on Integrated Computational Materials Engineering (ICME 2017) Paul Mason, Charles R. Fisher, Ryan Glamm, Michele V. Manuel, Georg J. Schmitz, Amarendra K. Singh, Alejandro Strachan, 2017-04-27. This book represents a collection of papers presented at the 4th World Congress on Integrated Computational Materials Engineering ICME 2017 a specialty conference organized by The Minerals Metals Materials Society TMS. The contributions offer topics relevant to the global advancement of ICME as an engineering discipline. Topics covered include the following: ICME Success Stories and Applications; Verification Validation Uncertainty Quantification Issues and Gap Analysis; Integration Framework and Usage; Additive Manufacturing; Phase Field Modeling; Microstructure Evolution; ICME Design Tools and Application; Mechanical Performance Using Multi Scale Modeling.

Universal Access in Human Computer Interaction. Coping with Diversity Constantine Stephanidis, 2007-08-24. This is the first of a three volume set that constitutes the refereed proceedings of the 4th International Conference on Universal Access in Human Computer Interaction UAHCI 2007 held in Beijing China. It covers designing for universal access universal access methods techniques and tools understanding motor diversity perceptual and cognitive abilities as well as understanding age diversity.

Advanced Signal Processing Technology By Softcomputing Hsu Charles, 2000-11-07. This book presents worldwide outstanding research and recent progress in the applications of neural networks fuzzy logic chaos independent component analysis etc to fields related to speech recognition enhancement supervised Fourier demixing noise elimination acoustic databases the human hearing system cancer detection image processing and visual communications.

Advances in Learning Software Organizations Grigori Melnik, Dr. Harald Holz, 2004-06-14. Software intensive organizations cannot help but learn. A software organization that does not learn will not exist for long because the software market is continuously on

the move because of new customer demands and needs and because of new competitor products and services Software organizations must adapt quickly to this ever changing environment and the capability to adapt is one of the most important aspects of learning Smart organizations will attempt to predict future software demands and develop a corresponding knowledge road map that identifies the capabilities needed over time in order to meet these demands Organizational learning typically occurs when experienced organization members share their knowledge with colleagues such that the organization as a whole can profit from the intellectual capital of its members While knowledge is typically shared in an ad hoc fashion by means of direct face to face communication a learning software organization will want to ensure that this knowledge sharing occurs in a systematic way enabling it whenever and wherever it is needed Since 1999 the annual International Workshop on Learning Software Organizations LSO has provided a communication forum that brings together academia and industry to discuss the advancements in and to address the questions of continuous learning in software intensive organizations Building upon existing work on knowledge management and organizational learning the workshop series promotes interdisciplinary approaches from computer science and information systems business management and organization science as well as cognitive science

Web Engineering Luciano Baresi, Piero Fraternali, Geert-Jan Houben, 2007-08-13 With ever more commerce being done online and the complexity of the world wide web growing every day engineering the web has become a topic of growing contemporary relevance This book constitutes the refereed proceedings of the 7th International Conference on Web Engineering held in Como Italy in July 2007 The 26 revised full papers and 13 revised short papers presented together with 9 demonstration papers 4 industrial papers and 4 papers of the doctoral symposium were carefully reviewed and selected from 172 submissions

Computational Intelligence Systems in Industrial Engineering Cengiz Kahraman, 2012-11-05 Industrial engineering is a branch of engineering dealing with the optimization of complex processes or systems It is concerned with the development improvement implementation and evaluation of production and service systems Computational Intelligence Systems find a wide application area in industrial engineering neural networks in forecasting fuzzy sets in capital budgeting ant colony optimization in scheduling Simulated Annealing in optimization etc This book will include most of the application areas of industrial engineering through these computational intelligence systems In the literature there is no book including many real and practical applications of Computational Intelligence Systems from the point of view of Industrial Engineering Every chapter will include explanatory and didactic applications It is aimed that the book will be a main source for MSc and PhD students

Advanced Mathematical Techniques in Science and Engineering Mangey Ram, João Paulo Davim, 2022-09-01 In recent years mathematical techniques applied to novel disciplines within the science and engineering have experienced extraordinary growth Advanced Mathematical Techniques in Science and Engineering focusses on a detailed range of mathematics applied within various fields of science and engineering for different tasks Topics of focus include Analysis of Consensus Building

Time in Social Groups Modeling of intersystem accidents in critical infrastructure systems Stochastic approaches to analysis and modeling of multi sources and big data Performance evaluation of computational DoS attack on access point in Wireless LANs Ranking methods for decision making under uncertainty Understanding time delay based Modeling Diffusion of technological products Role of soft computing in science and engineering Complex system reliability analysis and optimization Tree growth models in forest ecosystems modelling This research book can be used as a reference for students in a final year undergraduate engineering course such as mechanical mechatronics industrial computer science information technology etc Furthermore the book can serve as a valuable reference for academics engineers and researchers in these and related subject areas

Fifty Years of Fuzzy Logic and its Applications Dan E. Tamir, Naphtali D. Rishe, Abraham Kandel, 2015-05-23 This book presents a comprehensive report on the evolution of Fuzzy Logic since its formulation in Lotfi Zadeh's seminal paper on fuzzy sets published in 1965 In addition it features a stimulating sampling from the broad field of research and development inspired by Zadeh's paper The chapters written by pioneers and prominent scholars in the field show how fuzzy sets have been successfully applied to artificial intelligence control theory inference and reasoning The book also reports on theoretical issues features recent applications of Fuzzy Logic in the fields of neural networks clustering data mining and software testing and highlights an important paradigm shift caused by Fuzzy Logic in the area of uncertainty management Conceived by the editors as an academic celebration of the fifty years anniversary of the 1965 paper this work is a must have for students and researchers willing to get an inspiring picture of the potentialities limitations achievements and accomplishments of Fuzzy Logic based systems

Software Prototyping in Data and Knowledge Engineering G. Guida, G. Lamperti, Marina Zanella, 2013-03-07 This monograph describes an innovative prototyping framework for data and knowledge intensive systems The proposed approach will prove especially useful for advanced and research oriented projects that aim to develop a traditional database perspective into fully fledged advanced database approaches and knowledge engineering technologies The book is organised in two parts The first part comprising chapters 1 to 4 provides an introduction to the concept of prototyping to database and knowledge based technologies and to the main issues involved in the integration of data and knowledge engineering The second part comprising chapters 5 to 12 illustrates the proposed approach in technical detail Audience This volume will be of interest to researchers in the field of databases and knowledge engineering in general and for software designers and knowledge engineers who aim to expand their expertise in data and knowledge intensive systems

Requirements Engineering for Service and Cloud Computing Muthu Ramachandran, Zaigham Mahmood, 2017-04-10 This authoritative text reference describes the state of the art in requirements engineering for software systems for distributed computing A particular focus is placed on integrated solutions which take into account the requirements of scalability flexibility sustainability and operability for distributed environments Topics and features discusses the latest developments tools technologies and trends in software requirements engineering reviews the

relevant theoretical frameworks practical approaches and methodologies for service requirements examines the three key components of the requirements engineering process namely requirements elicitation requirements specification and requirements validation and evaluation presents detailed contributions from an international selection of highly reputed experts in the field offers guidance on best practices and suggests directions for further research in the area

Modeling and Simulation in Engineering, Economics, and Management María Ángeles Fernández-Izquierdo, María Jesús Muñoz-Torres, Raúl León, 2013-06-01 This book contains the refereed proceedings of the International Conference on Modeling and Simulation in Engineering Economics and Management MS 2013 held in Castell n de la Plana Spain in June 2013 The event was co organized by the AMSE Association and the SoGReS Research Group of the Jaume I University This edition of the conference paid special attention to modeling and simulation in diverse fields of business management The 28 full papers in this book were carefully reviewed and selected from 65 submissions They are organized in topical sections on modeling and simulation in CSR and sustainable development modeling and simulation in finance and accounting modeling and simulation in management and marketing modeling and simulation in economics and politics knowledge based expert and decision support systems and modeling and simulation in engineering

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