Soft Computing in Human Sciences

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ABSTRACT
There are various problems that cannot be solved by conventional, hard techniques. Soft computing has emerged as a way of solving these problems, the way humans do. It is a new approach to computing. It is an effective technique for solving problems of classification, prediction, optimization, pattern recognition, image processing, etc. Soft computing techniques include fuzzy logic, genetic algorithms, evolution strategies, artificial neural network, expert systems, and machine learning. These techniques have been used in human-related sciences to solve practical problems related to humans: their activities, health, and social needs. This paper provides an introduction to various applications of soft computing techniques in the human sciences.

KEYWORDS: soft computing, hard computing, computer science, human sciences, natural sciences

INTRODUCTION

Computing is the study of natural and artificial information processes. It has now become a natural science. Today, computing supports online communities, who work through people, who work through software that works through hardware. New ways to view computing affects how we design and build computing systems. As new principles are discovered, computing is evolving and thriving constantly. Figure 1 shows how computing evolved through the four stages of hardware, software, people, and community [1]. Every day more people use computers to do more things in different ways, so engineering, computer science, health, business, psychology, mathematics, and education compete for the computing crown. Academic institutions that compartmentalize computing research into isolated groups deny its multi-disciplinary future.

Computing includes computer science, computer engineering, software engineering, information technology, information science, and information systems. The main functions of computing systems include design, computation, communication, and automation. Computation is the execution of algorithms on a computer. The computer is the tool, computation is the principle [2].

Computation is a process of converting the input of one form to some other desired output form using some actions. Computation was present long before computers were invented, but the remarkable shift to this realization occurred only in the last decade. In the 1940s, computation was seen as a tool for solving problems, cracking codes, analyzing data, managing business processes, and running simulation models.

Computation has established itself as a powerful tool that made formerly intractable analyses tractable. It has become a third pillar of science, joining theory and experiment. Computation has become utterly indispensable in many fields leading to computational biology, computational chemistry, computational physics, computational anatomy, computational electromagnetics, computational fluids, computation

Soft Computing In Human Related Sciences

Lauren Gardner

Soft Computing In Human Related Sciences:

Soft Computing in Human-Related Sciences Horia-Nicolai L Teodorescu,Abraham Kandel,Lakhmi C. Jain,1999-04-29 Hard boundaries have traditionally existed between such fields as fuzzy systems neural networks genetic algorithms chaotic systems and expert systems Gradually those boundaries are tending to vanish and soft computing based systems that mix these different approaches have begun to emerge Soft Computing Techniques in Human Related Sciences focuses on the use of novel techniques such as artificial neural networks fuzzy logic and genetic algorithms to solve practical problems related to humans their activities health and social needs This volume illustrates and presents in an organized manner some of the recent progress in the applications of soft computing to fields related to social science medical science psychology psychiatry management of health and community services and humanoid robots Soft Computing Techniques in Human Related Sciences begins with an introductory chapter to aid newcomers with the basic concepts and progresses to the methodology of the use of soft computing in robotics prosthetics medicine psycchology and man machine interaction **Soft Computing Methods in Human Sciences** Vesa A. Niskanen,2014-01-15 Microcomputer Software for Management Science and Operations Management Barry Render,Ralph M. Stair,1986 *Science Software* ,1989 The College Blue Book 2008 ,2002 **Social Science Review** ,1999 Library & Information Science Abstracts ,2005 **Science** ,2009 *Problem Solving and Critical Thinking for Computer Science Educators* Cathleen A. Norris,James L. Poirot,1991 The eight papers presented in this monograph are a result of the Problem Solving and Critical Thinking Research Workshop that was held in conjunction with the 1990 National Educational Computing Conference NECC The intent of the workshop was to provide a unique forum for researchers to share ideas in a special area of educational computing The monograph provides an overview of the general issues of problem solving and critical thinking in education as well as specialized areas of interest in intelligent tutoring and program construction The papers included in this monograph are 1 Problem Solving Critical Thinking and Computing An Overview Cathleen A Norris and James L Poirot 2 Mindstorms Revisited Computers Problem Solving and Knowledge based Instruction Karen Swan 3 Defining Programming and Logo as Vehicles for Developing Higher Order Thinking Skills Jim Dunne 4 Abstracted Knowledge A Mid Road Transfer Approach to Critical Thinking Clifton S Harris 5 Resolving the Impasse in Software Engineering Problem Solving in Program Construction Warren Moseley 6 Critical Thinking and Intelligent Tutoring Systems James T Streib 7 Critical Thinking and Open Courseware Eduardo Rivera and 8 What Can We Learn from Each Other s Experiences Observations of a Research Oriented Workshop by a Classroom Teacher Sylvia Robinson References are included with most papers ALF **Science & Technology in Japan** ,1984 **5 Steps to a 5: AP Computer Science Principles, 2nd Edition** Julie Sway,2020-09-25 MATCHES THE LATEST EXAM In this hybrid year let us supplement your AP classroom experience with this easy to follow study guide The immensely popular 5 Steps to a 5 AP Computer Science Principles Second Edition guide has been updated for the 2020 21 school year and now contains 3

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The Second International Conference on Computers and Applications, Beijing (Peking), People's Republic of China, June 23-27, 1987 ,1987   *Soft Computing in Humanities and Social Sciences* Rudolf Seising,Veronica Sanz González,2011-11-05 The field of Soft Computing in Humanities and Social Sciences is at a turning point The strong distinction between science and humanities has been criticized from many fronts and at the same time an increasing cooperation between the so called hard sciences and soft sciences is taking place in a wide range of scientific projects dealing with very complex and interdisciplinary topics In the last fifteen years the area of Soft Computing has also experienced a gradual rapprochement to disciplines in the Humanities and Social Sciences and also in the field of Medicine Biology and even the Arts a phenomenon that did not occur much in the previous years The collection of this book presents a generous sampling of the new and burgeoning field of Soft Computing in Humanities and Social Sciences bringing together a wide array of authors and subject matters from different disciplines Some of the contributors of the book belong to the scientific and technical areas of Soft Computing while others come from various fields in the humanities and social sciences such as Philosophy History Sociology or Economics Rudolf Seising received a Ph D degree in philosophy of science and a postdoctoral lecture qualification PD in history of science from the Ludwig Maximilians University of Munich He is an Adjoint Researcher at the European Centre for Soft Computing in Mieres Asturias Spain Veronica Sanz earned a Ph D in Philosophy at the University Complutense of Madrid Spain At the moment she is a Postdoctoral Researcher at the Science Technology and Society Center in the University of California at Berkeley Veronica Sanz earned a Ph D in Philosophy at the University Complutense of Madrid Spain At the moment she is a Postdoctoral Researcher at the Science Technology and Society Center in the University of California at Berkeley

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