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Three transdisciplinary mainstreams of crisp and soft computing are presented in this book. (1) An entirely new approach to scientific modeling from scratch as based on parity logic with new operators for binary computing and the new framework of Langlet transforms.

Crisp and Soft Computing with Hypercubical Calculus: New ...

Crisp and Soft Computing with Hypercubical Calculus: New Approaches to Modeling in Cognitive Science and Technology with Parity Logic, Fuzzy Logic, and Evolutionary Computing 425

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Three transdisciplinary mainstreams of crisp and soft computing are presented in this book. (1) An entirely new approach to scientific modeling from scratch as based on parity logic with new operators for binary computing and the new framework of Langlet transforms. (2) A compact overview of the foundations of fuzzy logic, and a comprehensive treatment of fuzzy nonlinear dynamical predictor systems in terms of fuzzy cognitive maps.

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Crisp and Soft Computing with Hypercubical Calculus : New Approaches to Modeling in Cognitive Science and Technology with Parity Logic, Fuzzy Logic, and Evolutionary Computing. [Michael Zaus] -- Three transdisciplinary mainstreams of crisp and soft computing are presented in this book.

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Read Crisp and Soft Computing with Hypercubical Calculus ...

Soft computing, as opposed to traditional computing, deals with approximate models and gives solutions to complex real-life problems. Unlike hard computing, soft computing is tolerant of imprecision, uncertainty, partial truth, and approximations. In effect, the role model for soft computing is the human mind.

An Overview of Soft Computing - ScienceDirect

Soft computing employs fuzzy logic and probabilistic reasoning while hard computing is based on binary or crisp systems. Hard computing has features such as precision and categoricity. As against, approximation and dispositionality are the characteristics of soft computing. Soft computing approach is probabilistic in nature whereas hard computing is deterministic.

Difference Between Soft computing and Hard computing (with ...

Soft Computing Hard Computing; 1. Soft Computing is liberal of inexactness, uncertainty, partial truth and approximation. Hard computing needs a exactly state analytic model. 2. Soft Computing relies on formal logic and probabilistic reasoning. Hard computing relies on binary logic and crisp system. 3. Soft computing has the features of approximation and dispositionality.

Difference between Soft Computing and Hard Computing ...

Conversely, crisp set elements can have a total membership or non-membership. There are several applications of the crisp and fuzzy set theory, but both are driven towards the development of the efficient expert systems. The fuzzy set follows the infinite-valued logic whereas a crisp set is based on bi-valued logic.

Difference Between Fuzzy Set and Crisp Set (with ...

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Crisp and Soft Computing with Hypercubical Calculus: New ...

Soft computing is the use of approximate calculations to provide imprecise but usable solutions to complex computational problems. The approach enables solutions for problems that may be either unsolvable or just too time-consuming to solve with current hardware.Soft computing is sometimes referred to as computational intelligence.

What is soft computing? - Definition from WhatIs.com

Soft Computing vs Hard Computing The biological processes fascinated scientists to solve real world problems by simulating the processes to robust algorithms and solve problems like a human mind in uncertain environment with limited information whereas the conventional algorithms (hard computing) fail to solve due to the strict principles.

Soft Computing. In Rescue when Conventional Algorithms ...

Soft Computing is based on fuzzy logic, neural sets, and probabilistic reasoning whereas Hard Computing is based on binary logic, crisp system, numerical analysis and crisp software. 3. Soft computing has the characteristics of approximation and dispositionality whereas Hard computing has the characteristics of precision and categoricity. 4.

Difference between Soft computing and Hard Computing

2.1 Fuzzy vs Crisp 14. 2.2 Set 14. 2.3 Basic Fuzzy Set Operations 16. 2.4 Fuzzy Systems 26. ... Soft Computing (SC) consists of several computing paradigms, including type-1 fuzzy logic, neural ...

(PDF) Soft Computing: Concepts and Techniques

Soft Computing | Introduction & Types: In this tutorial, we are going to discuss the Introduction of soft computing and also discuss the types of soft computing. Submitted by Prerana Jain, on April 22, 2020 . Computing. Any activity that uses computers to manage, process and communicate information is called computing.

Introduction to Soft Computing and Its Types

Hard computing is very accurate and certain whereas the soft computing model is imprecision tolerant and works on partial truth and approximation. Hard computing is based on a crisp system and binary logic and soft computing are based on fuzzy logic and probabilistic reasoning. Hard computing works on exact input data.

Differences between Hard Computing and Soft Computing

1.Introduction to Soft Computing. 2. Crisp and Fuzzy Sets. 3. Fuzzy Logic and Inference Rules. 4. Fuzzy Inference Systems. 5. Rough Set and Possibility Theory. 6. Single-layer Feed-forward Neural Network—Perceptron. 7. Multi-layer Feed-forward Neural Network. 8. Radial Basis Function Neural Network. 9. Recurrent Neural Networks. 10.

Soft Computing - meducation.co.in

Hard computing is the traditional computing method which most of you are probably already familiar with. An example is a program that adds 2 numbers. Definite input and an absolute answer. A great free book that would give you a good kickstart on both soft computing and fuzzy logic is Introduction to Soft Computing by Eva Volná.