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Fuzzy Logic and Neural Networks *Membership*

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INTRODUCTION - What is Soft Computing is an emerging approach to computing that gives the remarkable ability of the human mind to argue and learn in the atmosphere of uncertainty and distrust. Soft Computing is based on some biological induced methods such as genetics, development, and behavior, the warm of particles, the human nervous system, etc.

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What is Soft Computing and Its Applications and Techniques ...

The appearance of a book like this one helps spread awareness about the new techniques based on soft computing and is thus a welcome addition. In this book a cross-section of these techniques is introduced and their applications illustrated by examples from physical systems based on the author's own research.

Soft Computing: Techniques and its Applications in ...

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Soft computing is a hybrid technique that uses a combination of NNs, GAs, and FL. Its goal is to match the human brain as near as possible. Soft computing is a process in which antecedent is given to a computing function and the output consequent is produced. Where f is the formal method / algorithms / mapping function.

Introduction to Soft Computing and Its Types

All hard computing approaches modelled with accurate solution which are achieved very quickly. Resultant solution having exactness and full truth. But when these problems comes

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with incomplete knowledge than it fails to achieve the goal. Thus, soft computing techniques are easily applied in this situation with its variety of components. The ...

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Intuitive consciousness/ wisdom is also one of the frontline areas in soft computing, which has to be always cultivated by meditation. This book is an introduction to some new fields in soft computing with its principal components of fuzzy logic, ANN and

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EA and it is hoped that it would be quite useful to study the fundamental concepts on these topics for the pursuit of allied research.

Soft Computing: Techniques and its Applications in ...

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

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referred to as computational intelligence.

What is soft computing? - Definition from WhatIs.com

Soft computing is based on techniques such as fuzzy logic, genetic algorithms, artificial neural networks, machine learning, and expert systems. Although soft computing theory and techniques were first introduced in 1980s, it has now become a major research and study area in automatic control engineering.

An Overview of Soft Computing - ScienceDirect
Soft computing uses an artificial neural

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network and fuzzy logic to determine when there is a sudden surge in demand and accordingly allocates resources for that particular node.

Top 5 Applications of Soft computing in Practice

Soft Computing is the role model for human mind as it is tolerant of uncertainty and partial truth. It is an emerging field and have found many wide applications. It employs NN, FL, SVM, etc. in a complementary way and helps in learning from experimental data. This techniques generalise to produce output

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SOFT COMPUTING: ITS PRINCIPLE, COMPONENTS, IMPORTANCE AND ...

Soft Computing consists of numerous techniques that study the biological processes such as reasoning, genetic evolution, survival of the creatures and human nervous system. SC is an umbrella term that thoroughly study the simulation of reasoning, human nervous system and evolution in different fields:

Soft Computing. In Rescue when Conventional

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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 ...

Soft computing is an emerging collection of

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methodologies, which aim to exploit tolerance for imprecision, uncertainty, and partial truth to achieve robustness, tractability and total low cost....

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Soft computing and hard computing are computing methods where hard computing is the conventional methodology relies on the principles of accuracy, certainty, and inflexibility. Conversely, soft computing is a modern approach premised on the idea of the approximation, uncertainty, and flexibility.

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The appearance of a book like this one helps spread awareness about the new techniques based on soft computing and is thus a welcome addition. In this book a cross-section of these techniques is introduced and their applications illustrated by examples from physical systems based on the author's own research.

Soft Computing / SpringerLink

Soft-Computing (SC) exemplifies the vague elucidation for almost all computational tasks, but still it is said to be the epitome of various schemas such as Fuzzy Logic (FL),

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Neural Networks (NN), and Genetic Algorithms (GA) for manipulating data. SC schemas can be combined, which we have termed as Combined Schema.

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