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**Siddhartha Bhattacharyya, Ujjwal
Maulik, Paramartha Dutta**



Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems:

Quantum Inspired Intelligent Systems Leandro dos Santos Coelho, 2008-05-29 Research on applying principles of quantum computing to improve the engineering of intelligent systems has been launched since late 1990s This emergent research field concentrates on studying on quantum computing that is characterized by certain principles of quantum mechanics such as standing waves interference quantum bits coherence superposition of states and concept of interference combined with computational intelligence or soft computing approaches such as artificial neural networks fuzzy systems evolutionary computing swarm intelligence and hybrid soft computing methods This volume offers a wide spectrum of research work developed using soft computing combined with quantum computing systems Quantum-Inspired Intelligent Systems for Multimedia Data Analysis Bhattacharyya, Siddhartha, 2018-04-13 As multimedia data advances in technology and becomes more complex the hybridization of soft computing tools allows for more robust and safe solutions in data processing and analysis Quantum Inspired Intelligent Systems for Multimedia Data Analysis provides emerging research on techniques used in multimedia information processing using intelligent paradigms including swarm intelligence neural networks and deep learning While highlighting topics such as clustering techniques neural network architecture and text data processing this publication explores the methods and applications of computational intelligent tools This book is an important resource for academics computer engineers IT professionals students and researchers seeking current research in the field of multimedia data processing and quantum intelligent systems

Quantum Inspired Computational Intelligence Siddhartha Bhattacharyya, Ujjwal Maulik, Paramartha Dutta, 2016-09-20 Quantum Inspired Computational Intelligence Research and Applications explores the latest quantum computational intelligence approaches initiatives and applications in computing engineering science and business The book explores this emerging field of research that applies principles of quantum mechanics to develop more efficient and robust intelligent systems Conventional computational intelligence or soft computing is conjoined with quantum computing to achieve this objective The models covered can be applied to any endeavor which handles complex and meaningful information Brings together quantum computing with computational intelligence to achieve enhanced performance and robust solutions Includes numerous case studies tools and technologies to apply the concepts to real world practice Provides the missing link between the research and practice

Intelligent Systems in Oil Field Development under Uncertainty Marco A. C. Pacheco, Marley M. B. R. Vellasco, 2009-04-27 The decision to invest in oil field development is an extremely complex problem even in the absence of uncertainty due to the great number of technological alternatives that may be used to the dynamic complexity of oil reservoirs which involves multiphase flows oil gas and water in porous media with phase change and to the complicated combinatorial optimization problem of choosing the optimal oil well network that is choosing the number and types of wells horizontal vertical directional multilateral required for draining oil from a field with a view to maximizing its economic value This problem becomes even more difficult

when technical uncertainty and economic uncertainty are considered. The former are uncertainties regarding the existence, volume, and quality of a reservoir and may encourage an investment in information before the field is developed in order to reduce these uncertainties and thus optimize the heavy investments required for developing the reservoir. The economic or market uncertainties are associated with the general movements of the economy such as oil prices, gas demand, exchange rates, etc. and may lead decision makers to defer investments and wait for better market conditions. Choosing the optimal investment moment under uncertainty is a complex problem which traditionally involves dynamic programming tools and other techniques that are used by the real options theory.

Hybrid Computational Intelligent Systems Siddhartha Bhattacharyya, 2023-05-03

Hybrid Computational Intelligent Systems: Modeling, Simulation, and Optimization unveils the latest advances in evolving hybrid intelligent modeling and simulation of human-centric, data-intensive applications optimized for real-time use, thereby enabling researchers to come up with novel breakthroughs in this ever-growing field. Salient features include the fundamentals of modeling and simulation with recourse to knowledge-based simulation interaction paradigms and human factors along with the enhancement of the existing state of art in a high-performance computing setup. In addition, this book presents optimization strategies to evolve robust and failsafe intelligent system modeling and simulation. The volume also highlights novel applications for different engineering problems including signal and data processing, speech, image, sensor data processing, innovative intelligent systems, and swarm intelligent manufacturing systems.

Features:

- A self-contained approach to integrating the principles of hybrid computational intelligence with system modeling and simulation.
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- Effective modeling of hybrid intelligent systems forms the backbone of almost every operative system in real life.
- Proper simulation of real-time hybrid intelligent systems is a prerequisite for deriving any real-life system solution.
- Optimized system modeling and simulation enable real-time and failsafe operations of the existing hybrid intelligent system solutions.
- Information presented in an accessible way for researchers, engineers, developers, and practitioners from academia and industry working in all major areas and interdisciplinary areas of hybrid computational intelligence and communication systems to evolve human-centered modeling and simulations of real-time data-intensive intelligent systems.

New Directions on Hybrid Intelligent Systems Based on Neural Networks, Fuzzy Logic, and Optimization Algorithms Patricia Melin, Oscar Castillo, 2024-04-08

This book contains a collection of papers focused on hybrid intelligent systems based on soft computing techniques. In this book, new directions on the theoretical developments of fuzzy logic, neural networks, and optimization algorithms, as well as their hybrid combinations, are offered. In addition, the abovementioned methods are discussed in application areas such as control and robotics, pattern recognition, medical diagnosis, decision making, prediction, and optimization of complex problems. There are a group of papers with the main theme of type 1, type 2, and type 3 fuzzy logic.

which basically consists of papers that propose new concepts and algorithms based on type 1 type 2 and type 3 fuzzy logic and their applications There is also a set of papers that offer theoretical concepts and applications of meta heuristics in different areas Another group of papers outlines diverse applications of hybrid intelligent systems in real problems There are also some papers that present theory and practice of neural networks in different applications Finally there are papers that offer theory and practice of optimization and evolutionary algorithms in different application areas

Research Anthology on Artificial Intelligence Applications in Security Management Association, Information Resources, 2020-11-27 As industries are rapidly being digitalized and information is being more heavily stored and transmitted online the security of information has become a top priority in securing the use of online networks as a safe and effective platform With the vast and diverse potential of artificial intelligence AI applications it has become easier than ever to identify cyber vulnerabilities potential threats and the identification of solutions to these unique problems The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet leading AI to be a frontrunner in the fight against malware cyber attacks and various security issues However even with the tremendous progress AI has made within the sphere of security it is important to understand the impacts implications and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security based research Research Anthology on Artificial Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications the latest tools and technologies as well as the utilization of AI and what challenges and impacts have been discovered along the way This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field and will continue to advance as an essential tool for security safety and privacy online This book is ideally intended for cyber security analysts computer engineers IT specialists practitioners stakeholders researchers academicians and students interested in AI applications in the realm of security research

Hybrid Metaheuristics: Research And Applications Siddhartha Bhattacharyya, 2018-09-28 A metaheuristic is a higher level procedure designed to select a partial search algorithm that may lead to a good solution to an optimization problem especially with incomplete or imperfect information This unique compendium focuses on the insights of hybrid metaheuristics It illustrates the recent researches on evolving novel hybrid metaheuristic algorithms and prominently highlights its diverse application areas As such the book helps readers to grasp the essentials of hybrid metaheuristics and to address real world problems The must have volume serves as an inspiring read for professionals researchers academics and graduate students in the fields of artificial intelligence robotics and machine learning Related Link s [Hybrid Intelligent Systems Based on Extensions of Fuzzy Logic, Neural Networks and Metaheuristics](#) Oscar Castillo, Patricia Melin, 2023-06-12 In this book recent theoretical

developments on fuzzy logic neural networks and optimization algorithms as well as their hybrid combinations are presented. In addition, the above mentioned methods are presented in application areas such as intelligent control and robotics, pattern recognition, medical diagnosis, decision making, time series prediction, and optimization of complex problems. The book contains a collection of papers focused on hybrid intelligent systems based on soft computing techniques. There are a group of papers with the main theme of type 1 and type 2 fuzzy logic which basically consists of papers that propose new concepts and algorithms based on type 1 and type 2 fuzzy logic and their applications. There is also a group of papers that offer theoretical concepts and applications of meta heuristics in different areas. Another group of papers outlines diverse applications of fuzzy logic neural networks and hybrid intelligent systems in medical problems. There are also some papers that present theory and practice of neural networks in different application areas. In addition, there are papers that offer theory and practice of optimization and evolutionary algorithms in different application areas. Finally, there is a group of papers describing applications of fuzzy logic neural networks and meta heuristics in pattern recognition and classification problems.

Predictive Intelligence Using Big Data and the Internet of Things Gupta, P.K., Ören, Tuncer, Singh, Mayank, 2018-12-28. With the recent growth of big data and the internet of things (IoT), individuals can now upload, retrieve, store, and collect massive amounts of information to help drive decisions and optimize processes. Due to this, a new age of predictive computing is taking place, and data can now be harnessed to predict unknown occurrences or probabilities based on data collected in real time. Predictive Intelligence Using Big Data and the Internet of Things highlights state-of-the-art research on predictive intelligence using big data, the IoT, and related areas to ensure quality assurance and compatible IoT systems. Featuring coverage on predictive application scenarios to discuss these breakthroughs in real-world settings and various methods, frameworks, algorithms, and security concerns for predictive intelligence, this book is ideally designed for academicians, researchers, advanced level students, and technology developers.

The book delves into Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems. Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems
 - Chapter 2: Essential Elements of Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems
 - Chapter 3: Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems in Everyday Life
 - Chapter 4: Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, the author will draw a conclusion about Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems.

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Quantum Inspired Intelligent Systems Quantum Inspired Intelligent Systems Introduction

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