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Towards Hybrid and Adaptive Computing

A Perspective



Springer

Towards Hybrid And Adaptive Computing A Perspective Studies In Computational Intelligence

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Lilhore**

Towards Hybrid And Adaptive Computing A Perspective Studies In Computational Intelligence:

Towards Hybrid and Adaptive Computing Anupam Shukla,Ritu Tiwari,Rahul Kala,2010-09-18 Soft Computing today is a very vast field whose extent is beyond measure The boundaries of this magnificent field are spreading at an enormous rate making it possible to build computationally intelligent systems that can do virtually anything even after considering the hostile practical limitations Soft Computing mainly comprising of Artificial Neural Networks Evolutionary Computation and Fuzzy Logic may itself be insufficient to cater to the needs of various kinds of complex problems In such a scenario we need to carry out amalgamation of same or different computing approaches along with heuristics to make fabulous systems for problem solving There is further an attempt to make these computing systems as adaptable as possible where the value of any parameter is set and continuously modified by the system itself This book first presents the basic computing techniques draws special attention towards their advantages and disadvantages and then motivates their fusion in a manner to maximize the advantages and minimize the disadvantages Conceptualization is a key element of the book where emphasis is on visualizing the dynamics going inside the technique of use and hence noting the shortcomings A detailed description of different varieties of hybrid and adaptive computing systems is given paying special attention towards conceptualization and motivation Different evolutionary techniques are discussed that hold potential for generation of fairly complex systems The complete book is supported by the application of these techniques to biometrics This not only enables better understanding of the techniques with the added application base it also opens new dimensions of possibilities how multiple biometric modalities can be fused together to make effective and scalable systems **On-Road Intelligent Vehicles** Rahul

Kala,2016-04-27 On Road Intelligent Vehicles Motion Planning for Intelligent Transportation Systems deals with the technology of autonomous vehicles with a special focus on the navigation and planning aspects presenting the information in three parts Part One deals with the use of different sensors to perceive the environment thereafter mapping the multi domain senses to make a map of the operational scenario including topics such as proximity sensors which give distances to obstacles vision cameras and computer vision techniques that may be used to pre process the image extract relevant features and use classification techniques like neural networks and support vector machines for the identification of roads lanes vehicles obstacles traffic lights signs and pedestrians With a detailed insight into the technology behind the vehicle Part Two of the book focuses on the problem of motion planning Numerous planning techniques are discussed and adapted to work for multi vehicle traffic scenarios including the use of sampling based approaches comprised of Genetic Algorithm and Rapidly exploring Random Trees and Graph search based approaches including a hierarchical decomposition of the algorithm and heuristic selection of nodes for limited exploration Reactive Planning based approaches including Fuzzy based planning Potential Field based planning and Elastic Strip and logic based planning Part Three of the book covers the macroscopic concepts related to Intelligent Transportation Systems with a discussion of various topics and concepts related to

transportation systems including a description of traffic flow the basic theory behind transportation systems and generation of shock waves Provides an overall coverage of autonomous vehicles and Intelligent Transportation Systems Presents a detailed overview followed by the challenging problems of navigation and planning Teaches how to compare contrast and differentiate navigation algorithms

Hybrid Artificial Intelligence Systems Emilio Corchado,Ajith Abraham,2008-09-30 The Third International Workshop on Hybrid Artificial Intelligence Systems HAIS 2008 presented the most recent developments in the dynamically expanding realm of symbolic and sub symbolic techniques aimed at the construction of highly robust and reliable problem solving techniques Hybrid intelligent systems have become increasingly popular given their capabilities to handle a broad spectrum of real world complex problems which come with inherent imprecision uncertainty and vagueness high dimensionality and non stationarity These systems provide us with the opportunity to exploit existing domain knowledge as well as raw data to come up with promising solutions in an effective manner Being truly multidisciplinary the series of HAIS workshops offers a unique research forum to present and discuss the latest theoretical advances and real world applications in this exciting research field This volume of Lecture Notes on Artificial Intelligence LNAI includes accepted papers presented at HAIS 2008 held in University of Burgos Burgos Spain September 2008 The global purpose of HAIS conferences has been to form a broad and interdisciplinary forum for hybrid artificial intelligence systems and associated learning paradigms which are playing increasingly important roles in a large number of application areas Since its first edition in Brazil in 2006 HAIS has become an important forum for researchers working on fundamental and theoretical aspects of hybrid artificial intelligence systems based on the use of agents and multiagent systems bioinformatics and bio inspired models fuzzy systems artificial vision artificial neural networks optimization models and alike

Interdisciplinary Advances in Information Technology Research Khosrow-Pour, D.B.A., Mehdi,2013-03-31 Over the last few decades the constant developments in the IT field have expanded into nearly every discipline and aspect of life Interdisciplinary Advances in Information Technology Research explores multiple fields and the research done as well as how they differentiate and relate to one another This collection provides focused discussions from unique perspectives on the latest information technology research Researchers practitioners and professionals will benefit from this publication's broad perspective

Handbook of Research on Computational Intelligence Applications in Bioinformatics Dash, Sujata,Subudhi, Bidyadhar,2016-06-20 Developments in the areas of biology and bioinformatics are continuously evolving and creating a plethora of data that needs to be analyzed and decrypted Since it can be difficult to decipher the multitudes of data within these areas new computational techniques and tools are being employed to assist researchers in their findings The Handbook of Research on Computational Intelligence Applications in Bioinformatics examines emergent research in handling real world problems through the application of various computation technologies and techniques Featuring theoretical concepts and best practices in the areas of computational intelligence artificial intelligence big data and bio inspired computing this

publication is a critical reference source for graduate students professionals academics and researchers *Computational Intelligence in Data Science* Eunika Mercier-Laurent,Bhuvana Jayaraman,Priyadharsini Ravisankar,Angel Deborah S.,Anusha Jayasimhan,2025-09-30 The three volume set IFIP ICCIDS 748 749 and 750 constitutes the refereed post conference proceedings of the 8th IFIP TC 12 International Conference on Computational Intelligence in Data Science ICCIDS 2025 held in Chennai India during February 12 14 2025 The 91 papers including 70 regular papers and 21 short papers included in these proceedings were carefully reviewed and selected from 317 submissions The papers are organized in the following topical sections Part I Computer Vision for Real World Applications Part II Computer Vision for Real World Applications Emerging Trends in AI for Speech and Text Part III Emerging Trends in AI for Speech and Text Computational Intelligence for Secure Smart and Sustainable Applications *Discrete Problems in Nature Inspired Algorithms* Anupam Shukla,Ritu Tiwari,2017-12-15 This book includes introduction of several algorithms which are exclusively for graph based problems namely combinatorial optimization problems path formation problems etc Each chapter includes the introduction of the basic traditional nature inspired algorithm and discussion of the modified version for discrete algorithms including problems pertaining to discussed algorithms **Emerging Perspectives and Applications of Computational Intelligence and Smart Systems** Amit Lathigara,Nirav Bhatt,Paresh Tanna,2025-12-23 Emerging Perspectives and Applications of Computational Intelligence and Smart Systems delves into the transformative role of artificial intelligence machine learning IoT robotics smart technologies etc in shaping the future of industries and societies This volume presents cutting edge research and real world applications that highlight how computational intelligence enables automation intelligent decision making and sustainable solutions across diverse domains With contributions from experts in academia and industry the book explores innovations in healthcare smart cities energy systems manufacturing and beyond It emphasizes interdisciplinary collaboration and practical methodologies that bridge the gap between theoretical advancements and tangible impact By combining theoretical advancements with real world relevance this book equips readers with a deeper understanding of how intelligent technologies can be applied to solve complex problems It is an essential guide for those looking to harness computational intelligence and smart systems to drive innovation improve efficiency and contribute to a more sustainable and connected future Women in Computational Intelligence Alice E Smith,2022-04-13 This book provides a breadth of innovative and impactful research in the field computational intelligence led by women investigators Topics include intelligent data analytics optimization of complex systems approximation of human reasoning robotic path planning and intelligent control systems These topics touch on many of the technological challenges facing the world today and these solutions by women researcher teams are valuable for their excellence and their non traditional perspective As an important part of the Women in Science and Engineering book series the work highlights the contribution of women leaders in computational intelligence inspiring women and men girls and boys to enter and apply themselves to this exciting multi

disciplinary field Real-life Applications with Membrane Computing Gexiang Zhang, Mario J. Pérez-Jiménez, Marian Gheorghe, 2017-04-05 This book thoroughly investigates the underlying theoretical basis of membrane computing models and reveals their latest applications In addition to date there have been no illustrative case studies or complex real life applications that capitalize on the full potential of the sophisticated membrane systems computational apparatus gaps that this book remedies By studying various complex applications including engineering optimization power systems fault diagnosis mobile robot controller design and complex biological systems involving data modeling and process interactions the book also extends the capabilities of membrane systems models with features such as formal verification techniques evolutionary approaches and fuzzy reasoning methods As such the book offers a comprehensive and up to date guide for all researchers PhDs and undergraduate students in the fields of computer science engineering and the bio sciences who are interested in the applications of natural computing models **Computational Intelligence Paradigms S.**

Sumathi, Surekha Paneerselvam, 2010-01-05 Offering a wide range of programming examples implemented in MATLAB **Computational Intelligence Paradigms Theory and Applications Using MATLAB** presents theoretical concepts and a general framework for computational intelligence CI approaches including artificial neural networks fuzzy systems evolutionary computation genetic algorithms and pr *Computational Intelligence - Volume II* Hisao Ishibuchi, 2015-12-30 Computational intelligence is a component of Encyclopedia of Technology Information and Systems Management Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Computational intelligence is a rapidly growing research field including a wide variety of problem solving techniques inspired by nature Traditionally computational intelligence consists of three major research areas Neural Networks Fuzzy Systems and Evolutionary Computation Neural networks are mathematical models inspired by brains Neural networks have massively parallel network structures with many neurons and weighted connections Whereas each neuron has a simple input output relation a neural network with many neurons can realize a highly non linear complicated mapping Connection weights between neurons can be adjusted in an automated manner by a learning algorithm to realize a non linear mapping required in a particular application task Fuzzy systems are mathematical models proposed to handle inherent fuzziness in natural language For example it is very difficult to mathematically define the meaning of cold in everyday conversations such as It is cold today and Can I have cold water The meaning of cold may be different in a different situation Even in the same situation a different person may have a different meaning Fuzzy systems offer a mathematical mechanism to handle inherent fuzziness in natural language As a result fuzzy systems have been successfully applied to real world problems by extracting linguistic knowledge from human experts in the form of fuzzy IF THEN rules Evolutionary computation includes various population based search algorithms inspired by evolution in nature Those algorithms usually have the following three mechanisms fitness evaluation to measure the quality of each solution selection to choose good solutions from the current population and

variation operators to generate offspring from parents Evolutionary computation has high applicability to a wide range of optimization problems with different characteristics since it does not need any explicit mathematical formulations of objective functions For example simulation based fitness evaluation is often used in evolutionary design Subjective fitness evaluation by a human user is also often used in evolutionary art and music These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers

Pervasive Computing Aboul Ella Hassanien, 2009 Pervasive computing also referred to as ubiquitous computing or ambient intelligence aims to create environments where computers are invisibly and seamlessly integrated and connected into our everyday environment Pervasive computing and intelligent multimedia technologies are becoming increasingly important although many potential applications have not yet been fully realized These key technologies are creating a multimedia revolution that will have significant impact across a wide spectrum of consumer business healthcare and governmental domains This useful volume provides up to date and state of the art coverage of the diverse topics related to pervasive computing and intelligent multimedia technologies The use of different computational intelligence based approaches to various problems in pervasive computing are examined including video streaming intelligent behavior modeling and control for mobile manipulators tele gaming indexing video summaries for quick video browsing web service processes virtual environments ambient intelligence and prevention and detection of attacks to ubiquitous databases Topics and features Includes a comprehensive overview providing a thorough literature review and an outline of the important research challenges Discusses pervasive computing approaches in the context of intelligent multimedia Examines virtual reality technology mobile virtual environments and the potential use of intelligent multimedia and ubiquitous computing in the hotels of the future Describes various approaches in ambient intelligence for home health care for the elderly and those suffering from Alzheimer s disease for volcano monitoring and for preventing attacks to ubiquitous databases Investigates issues in web services and situation awareness in pervasive computing environments Explores wireless network applications such as mobile agents and e commerce This textbook reference is an invaluable resource for researchers postgraduate and senior undergraduate students and practitioners involved in pervasive computing intelligent multimedia and computational intelligence

ECG Signal Processing, Classification and Interpretation Adam Gacek, Witold Pedrycz, 2011-09-18 The book shows how the various paradigms of computational intelligence employed either singly or in combination can produce an effective structure for obtaining often vital information from ECG signals The text is self contained addressing concepts methodology algorithms and case studies and applications providing the reader with the necessary background augmented with step by step explanation of the more advanced concepts It is structured in three parts Part I covers the fundamental ideas of computational intelligence together with the relevant principles of data acquisition morphology and use in diagnosis Part II deals with techniques and models of computational intelligence that are suitable for

signal processing and Part III details ECG system diagnostic interpretation and knowledge acquisition architectures Illustrative material includes brief numerical experiments detailed schemes exercises and more advanced problems

Integrating Neurocomputing with Artificial Intelligence Abhishek Kumar, Pramod Singh Rathore, Sachin Ahuja, Umesh Kumar Lilhore, 2025-06-09 Integrating Neurocomputing with Artificial Intelligence provides unparalleled insights into the cutting edge convergence of neuroscience and computing enriched with real world case studies and expert analyses that harness the transformative potential of neurocomputing in various disciplines Integrating Neurocomputing with Artificial Intelligence is a comprehensive volume that delves into the forefront of the neurocomputing landscape offering a rich tapestry of insights and cutting edge innovations This volume unfolds as a carefully curated collection of research showcasing multidimensional perspectives on the intersection of neuroscience and computing Readers can expect a deep exploration of fundamental theories methodologies and breakthrough applications that span the spectrum of neurocomputing Throughout the book readers will find a wealth of case studies and real world examples that exemplify how neurocomputing is being harnessed to address complex challenges across different disciplines Experts and researchers in the field contribute their expertise presenting in depth analyses empirical findings and forward looking projections Integrating Neurocomputing with Artificial Intelligence serves as a gateway to this fascinating domain offering a comprehensive exploration of neurocomputing s foundations contemporary developments ethical considerations and future trajectories It embodies a collective endeavor to drive progress and unlock the potential of neurocomputing setting the stage for a future where artificial intelligence is not merely artificial but profoundly inspired by the elegance and efficiency of the human brain

Intelligent Distributed Computing IX Paulo Novais, David Camacho, Cesar Analide, Amal El Fallah Seghrouchni, Costin Badica, 2015-10-26 This book represents the combined peer reviewed proceedings of the ninth International Symposium on Intelligent Distributed Computing IDC 2015 of the Workshop on Cyber Security and Resilience of Large Scale Systems WSRL 2015 and of the International Workshop on Future Internet and Smart Networks FI SN 2015 All the events were held in Guimar es Portugal during October 7th 9th 2015 The 46 contributions published in this book address many topics related to theory and applications of intelligent distributed computing including Intelligent Distributed Agent Based Systems Ambient Intelligence and Social Networks Computational Sustainability Intelligent Distributed Knowledge Representation and Processing Smart Networks Networked Intelligence and Intelligent Distributed Applications amongst others

Computational Intelligence in Medical Imaging G. Schaefer, A. Hassanien, J. Jiang, 2009-03-24 CI Techniques Algorithms for a Variety of Medical Imaging Situations Documents recent advances and stimulates further research A compilation of the latest trends in the field Computational Intelligence in Medical Imaging Techniques and Applications explores how intelligent computing can bring enormous benefit to existing technology in medical **Computational Intelligence** Juan Julian Merelo, Fernando Melício, José M. Cadenas, António Dourado, Kurosh Madani, António Ruano, Joaquim Filipe, 2018-10-03 This

book gathers revised and extended versions of the best papers presented at the 8th International Joint Conference on Computational Intelligence IJCCI 2016 which was held in Porto Portugal from 9 to 11 November 2016 The papers address three main fields of Computational Intelligence namely Evolutionary Computation Fuzzy Computation and Neural Computation In addition to highlighting recent advances in these areas the book offers veteran researchers new and innovative solutions while also providing a source of information and inspiration for newcomers to the field Intelligent Control Kaushik Das Sharma,Amitava Chatterjee,Anjan Rakshit,2018-08-28 This book discusses systematic designs of stable adaptive fuzzy logic controllers employing hybridizations of Lyapunov strategy based approaches H theory based approaches and contemporary stochastic optimization techniques The text demonstrates how candidate stochastic optimization techniques like Particle swarm optimization PSO harmony search HS algorithms covariance matrix adaptation CMA etc can be utilized in conjunction with the Lyapunov theory H theory to develop such hybrid control strategies The goal of developing a series of such hybridization processes is to combine the strengths of both Lyapunov theory H theory based local search methods and stochastic optimization based global search methods so as to attain superior control algorithms that can simultaneously achieve desired asymptotic performance and provide improved transient responses The book also demonstrates how these intelligent adaptive control algorithms can be effectively utilized in real life applications such as in temperature control for air heater systems with transportation delay vision based navigation of mobile robots intelligent control of robot manipulators etc Emerging Technologies and Security in Cloud Computing Lakshmi, D.,Tyagi, Amit Kumar,2024-02-14 In today s digital age the exponential growth of cloud computing services has brought significant opportunities for businesses and individuals alike However this surge in cloud adoption has also ushered in a host of critical concerns with the paramount issues being data privacy and security The goal of protecting sensitive information from cyber threats and ensuring confidentiality has become increasingly challenging for organizations across industries Emerging Technologies and Security in Cloud Computing is a comprehensive guide designed to tackle these pressing concerns head on This authoritative book provides a robust framework for understanding and addressing the multifaceted issues surrounding data privacy and security in the cloud It serves as a beacon of knowledge for academic scholars researchers and IT professionals seeking practical solutions to safeguard sensitive data

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Towards Hybrid And Adaptive Computing A Perspective Studies In Computational Intelligence Introduction

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