

Anupam Shukla
Ritu Tiwari
Rahul Kala

Towards Hybrid and Adaptive Computing A Perspective



Springer

Towards Hybrid And Adaptive Computing A Perspective Studies In Computational Intelligence

Yan Pei, Jia-Wei Chang, Jason C. Hung



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

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 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 *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 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 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 *Innovative Computing* Yan Pei, Jia-Wei Chang, Jason C. Hung, 2022-10-14 This book comprises select proceedings of the 5th International Conference on Innovative Computing IC 2022 focusing on cutting edge research carried out in the areas of information technology science and engineering Some of the themes covered in this book are cloud communications and networking high performance computing architecture for secure and interactive IoT satellite communication wearable network and system infrastructure management etc The essays are written by leading international experts making it a valuable resource for researchers and practicing engineers alike *Computational Intelligence* Jacek M. Zurada, Robert Jackson Marks (II), Charles J. Robinson, 1994 *1997 IEEE International Symposium on Intelligent Control* IEEE Control Systems Society, IEEE Control Systems Society Staff, IEEE, IEEE International Symposium on Intelligent Control, 1997 These papers discuss major areas of intelligent control Topics include intelligent control in space structures hybrid control system synthesis verification and stability intelligent machines and neural networks for robotics

Computational Intelligence Marimuthu Palaniswami, 1995 **Documentation Abstracts** ,1996 **Proceedings of the IASTED International Conference** M. H. Hamza, 1996 *Artificial intelligence and soft computing* M. H. Hamza, 1999

Sci-tech News ,2002 *Telecommunications Abstracts* ,1989 **Artificial Intelligence Abstracts** ,1991

Mathematical Reviews ,2008 **Dissertation Abstracts International** ,2002 **Artificial Intelligence in Real-Time Control 1998** Y.H. Pao, S.R. LeClair, 1999-11-26 This symposium was the seventh in a very successful series in this field Since the beginning of the series there have been a number of very positive developments in the topical area of Intelligent Control In particular the area referred to as situated control has stimulated the formation of new perspectives towards real time intelligent systems The performances of such artificial species as walking cockroaches maze negotiating mice coke can collecting robots and the like have encouraged the exploration of yet more adaptive control perspectives In this symposium there was a strong wind of change bringing more consideration of the roles of learning evolution hybrid systems and so on under many diverse labels and for many different systems and circumstances *Current Index to Journals in Education* ,1999 *International Aerospace Abstracts* ,1999

Towards Hybrid And Adaptive Computing A Perspective Studies In Computational Intelligence Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Towards Hybrid And Adaptive Computing A Perspective Studies In Computational Intelligence**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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