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Modeling and Simulations of Robotic Systems using Soft Computing

Robotics and Intelligent Systems

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Soft Computing For Intelligent Robotic Systems

D. Katic, M. Vukobratovic

Soft Computing For Intelligent Robotic Systems:

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edited collection of eighteen contributions on soft and hard computing techniques and their applications to autonomous robotic systems Each contribution has been exclusively written for this volume by a leading researcher The volume demonstrates the various ways that the soft computing and hard computing techniques can be used in different integrated manners to better develop autonomous robotic systems that can perform various tasks of vision perception cognition thinking pattern recognition decision making and reasoning and control amongst others Each chapter of the book is self contained and points out the future direction of research It is a must reading for students and researchers interested in exploring the potentials of the fascinating field that will form the basis for the design of the intelligent machines of the future Madan M Aspects of Soft Computing, Intelligent Robotics and Control János Fodor, 2009-10-13 Soft computing as a collection of techniques exploiting approximation and tolerance for imprecision and uncertainty in traditionally intractable problems has become very effective and popular especially because of the synergy derived from its components The integration of constituent technologies provides complementary methods that allow developing flexible computing tools and solving complex problems A wide area of natural applications of soft computing techniques consists of the control of dynamic systems including robots Loosely speaking control can be understood as driving a process to attain a desired goal Intelligent control can be seen as an extension of this concept to include autonomous human like interactions of a machine with the environment Intelligent robots can be characterized by the ability to operate in an uncertain changing environment with the help of appropriate sensing They have the power to autonomously plan and execute motion sequences to achieve a goal specified by a human user without detailed instructions In this volume leading specialists address various theoretical and practical aspects in soft computing intelligent robotics and control The problems discussed are taken from fuzzy systems neural networks interactive evolutionary computation intelligent mobile robotics and intelligent control of linear and nonlinear dynamic systems Soft Computing in Advanced Robotics Yong-Tae Kim, Ichiro Kobayashi, Euntai Kim, 2014-07-08 Intelligent system and robotics are inevitably bound up intelligent robots makes embodiment of system integration by using the intelligent systems We can figure out that intelligent systems are to cell units while intelligent robots are to body components. The two technologies have been synchronized in progress Making leverage of the robotics and intelligent systems applications cover boundlessly the range from our daily life to space station manufacturing healthcare environment energy education personal assistance logistics. This book aims at presenting the research results in relevance with intelligent robotics technology We propose to researchers and practitioners some methods to advance the intelligent systems and apply them to advanced robotics technology This book consists of 10 contributions that feature mobile robots robot emotion electric power steering multi agent fuzzy visual navigation adaptive network based fuzzy inference system swarm EKF localization and inspection robot This edition is published in original peer reviewed contributions covering from initial design to final prototypes and authorization Design and Control of Intelligent Robotic Systems Dikai

Liu, Lingfeng Wang, Kay Chen Tan, 2009-03-05 With the increasing applications of intelligent robotic systems in various elds the sign and control of these systems have increasingly attracted interest from researchers This edited book entitled Design and Control of Intelligent Robotic Systems in the book series of Studies in Computational Intelligence is a collection of some advanced research on design and control of intelligent robots The works presented range in scope from design methodologies to robot development Various design approaches and all rithms such as evolutionary computation neural networks fuzzy logic learning etc are included We also would like to mention that most studies reported in this book have been implemented in physical systems An overview on the applications of computational intelligence in bio inspired robotics is given in Chapter 1 by M Begum and F Karray with highlights of the recent progress in bio inspired robotics research and a focus on the usage of computational intelligence tools to design human like cognitive abilities in the robotic systems In Chapter 2 Lisa L Grant and Ganesh K Venayagamoorthy present greedy search particle swarm optimization and fuzzy logic based strategies for navigating a swarm of robots for target search in a hazardous environment with potential applications in high risk tasks such as disaster recovery and hazardous material detection Aspects of Soft Computing, Intelligent Robotics and Control János Fodor, 2009-08-20 Soft computing as a collection of techniques exploiting approximation and tolerance for imprecision and uncertainty in traditionally intractable problems has become very effective and popular especially because of the synergy derived from its components The integration of constituent technologies provides complementary methods that allow developing flexible computing tools and solving complex problems A wide area of natural applications of soft computing techniques consists of the control of dynamic systems including robots Loosely speaking control can be understood as driving a process to attain a desired goal Intelligent control can be seen as an extension of this concept to include autonomous human like interactions of a machine with the environment Intelligent robots can be characterized by the ability to operate in an uncertain changing environment with the help of appropriate sensing They have the power to autonomously plan and execute motion sequences to achieve a goal specified by a human user without detailed instructions In this volume leading specialists address various theoretical and practical aspects in soft computing intelligent robotics and control The problems discussed are taken from fuzzy systems neural networks interactive evolutionary computation intelligent mobile robotics and intelligent control of linear and nonlinear dynamic systems Modeling and Simulations of Robotic Systems Using Soft Computing Rega Rajendra, Dilip Kumar Pratihar, 2012-10-06

Adopting the Song of Term: An Emotional Symphony within Soft Computing For Intelligent Robotic Systems

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