

Intelligent Control Aspects Of Fuzzy Logic And Neural Nets World Scientific Series In Robotics And Automated Systems

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Here is an updated version of the \$domain website which many of our East European book trade customers have been using for some time now, more or less regularly. We have just introduced certain upgrades and changes which should be interesting for you. Please remember that our website does not replace publisher websites, there would be no point in duplicating the information. Our idea is to present you with tools that might be useful in your work with individual, institutional and corporate customers. Many of the features have been introduced at specific requests from some of you. Others are still at preparatory stage and will be implemented soon.

Intelligent Control Aspects Of Fuzzy

It is shown in this book that a wide class of fuzzy logic and neural net based learning algorithms satisfy these conditions. It is demonstrated that this class of intelligent controllers is based upon a fixed nonlinear mapping of the input (sensor) vector, followed by an output layer linear mapping with coefficients that are updated by various first order learning laws.

Intelligent Control: Aspects of Fuzzy Logic and Neural ...

Abstract. Index: 1. An Introduction to Intelligent Control 1.1 Preliminaries 1.2 Intelligent Control Requirements and Architectures 1.3 Approaches to Intelligent Control 1.4 Knowledge Based Systems 1.5 Fuzzy Logic 1.6 Fuzzy Logic in Control 1.7 Neurocontrollers 1.8 Higher Level Intelligent Controllers 1.9 Bibliographical Notes 2.

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Intelligent Control: Aspects of Fuzzy Logic and ... - CORE

Abstract—The limitations of conventional model-based control mechanisms for flexible manipulator systems have stimulated the development of intelligent control mechanisms incorporating fuzzy logic and neural networks. Problems have been encountered in applying the traditional PD-, PI-, and PID-type fuzzy controllers to flexible-link manipulators.

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Fuzzy control has long been applied to industry with several important theoretical results and successful results. ... the Task Force on Educational aspects of standards of Computational Intelligence as part of the Technical Committee on Standards in the IEEE Computational Intelligence Society, the Virtual Reality Task Force of the Intelligent ...

A survey on industrial applications of fuzzy control ...

Aspects of Fuzzy Logic and Neural Nets. With increasing demands for high precision autonomous control over wide operating envelopes, conventional control engineering approaches are unable to adequately deal with system complexity, nonlinearities, spatial and temporal parameter variations, and with uncertainty.

Intelligent Control | World Scientific Series in Robotics ...

Traditionally, intelligent control has embraced classical control theory, neural networks, fuzzy logic, classical AI, and a wide variety of search techniques (such as genetic algorithms and others). This book draws on all five areas, but more emphasis has been placed on the first three.

HANDBOOK OF INTELLIGENT CONTROL - Werbos

This book describes recent advances in the use of fuzzy logic for the design of hybrid intelligent systems based on nature-inspired optimization and their applications in areas such as intelligent control and robotics, pattern recognition, medical diagnosis, time series prediction and optimization of complex problems.

Fuzzy Logic in Intelligent System Design | SpringerLink

Fuzzy logic controllers perform well for complex plants without accurate mathematical models because, to a large extent, the system's behavior is captured and represented in the forms of fuzzy sets and fuzzy control rules provided by the human control expert. The drawbacks of this method are 1.

Modeling, stability analysis and computational aspects of ...

Exploring the theoretical aspects of fuzzy control, this monograph presents a modern approach that encourages the development of new applications. Topics discussed include analytical tools, the industrial applications of fuzzy control, work with neural networks, and much more.

Theoretical aspects of fuzzy control (Book, 1995 ...

and practical aspects of designing a fuzzy logic based hier-archical intelligent control strategy for performing the task of autonomous Leader Following. The following issues will be addressed: 1) Vision, 2) Perception, 3) Planning, 4) Actuation, 5) Computer Study, 6) Experiments. 4. Intelligent Control System Paradigm An Intelligent Control System (ICS) Paradigm has been

A Fuzzy Logic Intelligent Control System Architecture for ...

Intelligent Control considers non-traditional modelling and control approaches to nonlinear systems. Fuzzy logic, neural networks and evolutionary computing techniques are the main tools used.

Intelligent Control: A Hybrid Approach Based on Fuzzy ...

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The papers presented explore new areas of practical decision-making and control systems by considering important aspects of fuzzy logic theory and the latest developments in the field of expert systems. Specific fields of application covered include modelling and control, management, planning, diagnostics, finance and software. Contains 12 papers.

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