Intelligent Control A Hybrid Approach Based On Fuzzy Logic Neural Networks And Genetic Algorithms Studies In Computational Intelligence

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Intelligent Control A Hybrid Approach

AN INTELLIGENT CONTROL SYSTEM FOR A HYBRID FUEL CELL ...

As a result, an intelligent autonomous control system is achieved to perform high quality plant-wide control, by which both efficiency and reliability can be guaranteed Moreover, the presented intelligent control system and its design approach are not only valid for the hybrid fuel cell power plant, but

Hybrid Intelligent Control for Submarine Stabilization

control is a kind of new intelligent control and has been adopted in many research fields [20, 21] Fuzzy control is an effective approach to resolve the control problem of uncertainty in the system Extension control is characterized by solving incompatibility during the control process

Intelligent Fuzzy Hybrid PID Controller for Temperature ...

This paper presents a systematic approach for the design and implementation of temperature controller using Intelligent Fuzzy Hybrid PID Controller for Temperature control in Process Industry The proposed approach employs PID based intelligent fuzzy-controller for determination of the optimal

results than PID controller parameters for a previously

Model-Based Approach for Intelligent Control

The design and implementation of model-based, intelligent controllers requires extensive modeling Because the adaptation process may require structural modifications in the control system, the models must be hybrid Hybrid models explicitly represent not only quantitative, but qualitative, structural

Intelligent Power Supply Design Solutions

changes in the control loop configuration Intelligent power ment a hybrid approach to power control by combining the flexibility of analog and digital peripherals that can be configured (at runtime) to assemble a large variety of topologies under the control of the microcontroller CIP-hybrid …

AN ARCHITECTURE AND A METHODOLOGY FOR INTELLIGENT ...

of [4], described a hierarchical control architecture within which a hybrid approach was proposed to model systems with a high degree of autonomy Successive delegation of duties from the higher to lower levels is among the important characteristics of the hierarchy Meystel, in another chapter of [4], described a nested hierarchical control theory

A Hybrid System Approach for High Consumption Industrial ...

Hybrid approach Here the designer should model the system in one of the popular hybrid modeling lan- guages, and design a controller for the hybrid model This approach is very similar to the Switching control, but in addition it allows the user to incorporate logical rules in the mode selection of the system, as we have previously described

Parameter Estimation for a Hybrid Adaptive Flight Controller

the context of intelligent aircraft control The first section of this paper will present the direct adaptive flight control (DAFC) architecture and the hybrid adaptive flight control (HAFC) architecture for resilient aircraft control (both architectures are named purely for convenience in this paper)

HVAC Control Methods - a Review

Control Nonlinear Hybrid Soft Computing Control Combine d Control Structures Nonlinear Control Robust QFT Control Methods Expert Control Methods To take a similar approach, this paper will divide reviewed articles into four categories : classic approach (Feedforward and Feedback Control, On -Off , PID, etc); pr edictive control

Energy Management Control of Plug-in Hybrid Electric ...

IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, VOL XX, NO X, XX 1 Energy Management Control of Plug-in Hybrid Electric Vehicle using Hybrid Dynamical Systems Harpreetsingh Banvait, Student Member, IEEE, Jianghai Hu, Member, IEEE, and Yaobin Chen, Senior Member, IEEE Abstract—This paper presents a supervisory energy man-

Autonomous Intelligent Hybrid Propulsion Systems

Intelligent Hybrid Propulsion Systems This presentation does not contain any proprietary, confidential, or otherwise restricted information 2013 US DOE Hydrogen and Fuel Cells Program and Vehicle Technologies Program Annual Merit Review and Peer Evaluation Meeting May 13-17 , 2013 Andreas Malikopoulos (PI) Oak Ridge National Laboratory

A Hybrid Intelligent System for Stamping Process Planning ...

advantages and disadvantages One approach to deal with complex real world problems is to integrate the use of several AI technologies in order to combine their different strengths and overcome a single technology’s weakness to generate hybrid solutions [18] In this paper, a blackboard

architecture is adopted to develop a hybrid intelligent

HYBRID PROTECTION AND CONTROL SYSTEM FOR THE ...

In addition, the hybrid approach offers benefits from dividing protection and control functions into the station and bay levels, according to their criticality and complexity, and includes state-of-the-art substation communication features Index Terms — centralized protection and control, IEC 61850, intelligent merging unit, hybrid architecture,

Hybrid Electric Propulsion - NASA

Hybrid Electric Propulsion Breakout Summary from NASA Aero-Propulsion Control Technology Roadmap Development Workshop August 18-19, 2016, Cleveland, Ohio George Kopasakis gkopasakis@nasagov Intelligent Control and Autonomy Branch NASA Glenn Research Center New Branch Point of Contact for Hybrid-Electric Control research is: Joe Connolly

Path Dependent Receding Horizon Control Policies for ...

Intelligent Control, (ISIC), 2009 IEEE 2009 607-612 Web which in combination with a novel approach of route decomposition, has been shown to reduce fuel consumption To reduce fuel consumption, the control of Hybrid Electric Vehicles (HEVs) may be tied to an expected (or to a …

hybrid architectures for intelligent systems

A Reference Model Architecture For Intelligent Hybrid a hybrid control architecture any node in the rcs architecture may implement a hybrid control system each of the functions within the nodeseat be implemented by an augmemcl finite slate machine at lhe Hybrid Intelligent …

Adaptation of intelligent control systems to technological ...

Adaptation of intelligent control systems to technological processes of oil-and-gas production enterprises based on the hybrid application of An approach of dynamic control of electric submersible oil pump is suggested The key idea is a real time technological management, applying artificial neural network tool

Verification And Control Of Hybrid Systems A Symbolic ...

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