

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 based on fuzzy ...

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Hybrid Intelligent Control Method to Improve the Frequency ...

Section 3 presents the control method of WECS used to control the integrated converters and describe the DL operation Section 4 presents the proposed hybrid intelligent control method The simulation results obtained from the proposed control method, including IHCS algorithm and frequency support control method, are presented in Section 5

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

MODELING AND CONTROL OF INDUSTRIAL SYSTEMS: A HYBRID ...

industrial systems modeling and control In the paper, the term “hybrid approach” is used for variety of classes of systems and approaches Firstly, it describes the aggregation of different

Intelligent Control of a Stepping Motor Drive Using a ...

Intelligent Control of a Stepping Motor Drive Using a Hybrid Neuro-Fuzzy ANFIS Approach Leocundo Aguilar, Patricia MELIN, and Oscar CASTILLO Dept of Computer Science, Tijuana Institute of Technology, PO Box 4207 Chula Vista CA 91909, USA pmelin@tectijuanamx

An Intelligent Hybrid Approach for Predicting the Academic ...

An Intelligent Hybrid Approach for Predicting the Academic Performance of Students using Genetic Algorithms and Neuro Fuzzy System Altyeb Altaher¹ and Omar M Barukab² ^{1,2}Department of Information Technology, Faculty of Computing and Information Technology-Rabigh, King Abdulaziz University, Jeddah, Saudi Arabia Summary

Intelligent Hybrid Vehicle Power Control - Part I: Machine ...

Intelligent Hybrid Vehicle Power Control - Part I: Machine Learning of Optimal Vehicle Power Yi L Murphey¹, Senior Member, IEEE, Jungme Park¹, ZhiHang Chen¹, Ming Kuang², Member, IEEE, Abul Masrur³, Fellow, IEEE, Anthony Phillips² ¹Department of Electrical and Computer Engineering, University of Michigan-Dearborn

A Hybrid Dynamical Systems Approach to Intelligent Low ...

A Hybrid Dynamical Systems Approach to Intelligent Low-Level Navigation Eric Aaron Harold Sun Franjo Ivancić Dimitris Metaxas Department of Computer and Information Science, University of Pennsylvania eaaron@graphicscisupennedu, ivancic@gradientcisupennedu CBIM Center, Division of Computer and Information Sciences, Rutgers University

AN ARCHITECTURE AND A METHODOLOGY FOR INTELLIGENT ...

Intelligent system control has been the research focus of the Intelligent Systems Division (ISD) of the National Institute of Standards and Technology (NIST) NIST ISD proposes that a comprehensive approach toward this intelligent control system problem should cover all of the following critical issues: * A scalable and open 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

New Intelligent Transmission Concept for Hybrid Mobile ...

New Intelligent Transmission Concept for Hybrid Mobile Robot Speed Control Nazim Mir-Nasiri & Sulaiman Hussaini Department of Mechatronics, Faculty of Engineering International Islamic University Malaysia, Kuala Lumpur, Malaysia nazim@iiuedumy Abstract: This paper presents a new concept of a mobile robot speed control by using two degree of freedom gear transmission The developed

INTELLIGENT CONTROL

This has led to the development of theories for hybrid control systems, which study the control of continuous-state dynamic processes by discrete-state controllers. In addition to the more general processes considered in intelligent control, the control objectives can also be more general. For example, "replace part A in satellite" can be the general task for the controller of a space robot.

A Hybrid Systems Approach to Computer-Aided Control ...

A Hybrid Systems Approach to Computer-Aided Control Engineering Wolf Kohn, John James, Anil Nerode, Karan Harbison, and Ashok Agrawala * In this article we provide a tutorial

Intelligent Power Supply Design Solutions

Intelligent Power Supply Design Solutions 5 Core Independent Peripheral (CIP) Hybrid Power Controllers The analog control loop can be implemented efficiently in a PIC MCU taking advantage of the most recent set of Core Independent

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 management control system ...

Intelligent Observer and Control Design for Nonlinear Systems

Basic Structures for Control Open-Loop Control Closed-Loop Control "Conditional Feedback" Control Structure Scopes for Intelligent Control Methods of Intelligent Control Application of Learning in Control Engineering Example: Direct and Indirect Approach Requirements for Adaptive Methods Stability

On Resilient Control for Secure Connected Vehicles: A ...

Clemson University TigerPrints All Dissertations Dissertations December 2019 On Resilient Control for Secure Connected Vehicles: A Hybrid Systems Approach

Multimodal User Supervised Interface and Intelligent ...

The Multimodal User Supervised Interface and Intelligent Control (MUSIIC) strategy is a novel approach for intelligent assistive telerobotic system. This approach to robotic interaction is both a step towards addressing the problem of allowing individuals with physical disabilities to operate a robot in an unstructured environment and an

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, redundancy I INTRODUCTION In these

Intelligent Control and Look-ahead Energy Management of ...

Intelligent Control and Look-ahead Energy Management of Hybrid Electric Vehicles by Behnam Ganji Bachelor of Electrical Engineering (Control) and Master of Industrial Engineering Submitted in fulfilment of the requirement for the degree of PhD in Engineering Deakin University Deakin University September, 2012 ii Acknowledgments I would first and foremost like to thank my supervisor A/Prof