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Muhammad H. Rashid



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Proceedings of Third International Conference on Intelligent System Nguyen Hoang Long, João Manuel R. S.

Tavares, Souvik Pal, Le Hoang Son, Binh Thai Pham, 2025-08-08 This book gathers selected high quality research papers presented at the Third International Conference on Intelligent System ICIS 2024 organized by University of Transport Technology Hanoi Vietnam during 24-25 October 2024 It discusses high quality and cutting edge research in the areas of informatics intelligent systems and smart technologies and applications The book is a collection of the latest research articles in intelligent control artificial intelligence neural networks knowledge discovery decision support systems soft computing data mining and ontologies machine learning intelligent measurement and other related fields **Power Electronics**

Handbook Muhammad H. Rashid, 2011-01-13 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac-dc, dc-dc, dc-ac and ac-ac with a variable output magnitude and frequency It has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications Designed to appeal to a new generation of engineering professionals Power Electronics Handbook 3rd Edition features four new chapters covering renewable energy energy transmission energy storage as well as an introduction to Distributed and Cogeneration DCG technology including gas turbines gensets microturbines wind turbines variable speed generators photovoltaics and fuel cells has been gaining momentum for quite some time now smart grid technology With this book readers should be able to provide technical design leadership on assigned power electronics design projects and lead the design from the concept to production involving significant scope and complexity Contains 45 chapters covering all aspects of power electronics and its applications Three new chapters now including coverage Energy Sources Energy Storage and Electric Power Transmission Contributions from more than fifty leading experts spanning twelve different countries **Smart Sensors and Systems** Youn-Long Lin, Chong-Min Kyung, Hiroto Yasuura, Yongpan Liu, 2015-07-13 This

book describes for readers technology used for effective sensing of our physical world and intelligent processing techniques for sensed information which are essential to the success of the Internet of Things IoTs The authors provide a multidisciplinary view of sensor technology from MEMS biological chemical and electrical domains and showcase smart sensor systems in real applications including smart home transportation medical environmental agricultural etc Unlike earlier books on sensors this book provides a global view on smart sensors covering abstraction levels from device circuit systems and algorithms Science Abstracts, 1995 **Arduino Based Hybrid MPPT Controller for Wind and Solar** Michael Assaad, 2017 Renewable power systems are becoming more affordable and provide better options than fossil fuel generation for not only the environment but a benefit of a reduced cost of operation Methods to optimize charging batteries

from renewable technologies is an important subject for off grid and micro grids and is becoming more relevant for larger installations Overcharging or undercharging the battery can result in failure and reduction of battery life The Arduino hybrid MPPT controller takes the advantage of solar and wind energy sources by controlling two systems simultaneously The ability to manage two systems with one controller is better for an overall production of energy cost and manageability at a minor expense of efficiency The hybrid MPPT uses two synchronous buck DC DC converters to control both wind and solar The hybrid MPPT performed at a maximum of 93.6% efficiency while the individual controller operated at a maximum 97.1% efficiency when working on the bench test When designing the controller to manage power production from a larger generator the inductor size was too large due to the frequency provided by the Arduino A larger inductor means less allowable current to flow before the inductor becomes over saturated reducing the efficiency of the controller Utilizing a different microcontroller like the PIC16C63A produces a much faster frequency which will reduce the inductor size needed and allow more current before over saturation

Microcontroller-based System Controller for a Hybrid Electric Vehicle
John Hsu,2002 *Design and Implementation of a Microcontroller Based Peak Demand Controller for Optimal Operation of a Group of Industrial Motors* Bhaskar R. Kapuluru,1995 *Microcontroller-based Programmable Logic Controller* Yuan Nian Thee,2006 *Microcontroller Based Control System* Mohd Suhaimy Mohd Yasin,1993 *Microcontroller-based PID Controller for DC Motors* Henry V. Tabangay,2008

Microcontroller Based Supervisory Control of a Solar Tracker
Kevin Searle,2017 The Supervisory Control theory SCT of Discrete Event Systems is concerned with the design of supervisors that can generate appropriate control command sequences that meet the plant design specifications Examples of these sequences include the startup and shut down command sequences of a spacecraft engine This thesis addresses the implementation of Supervisory Controller SC executing on microcontroller hardware The plant studied is a 2 degree of freedom solar tracker Existing implementations of Supervisory Control Theory focus on Programmable Logic Controller PLC based systems PLCs are mainly used in process control and manufacturing applications These implementations have proven advantages but suffer from numerous drawbacks The hardware is large expensive and over engineered for many embedded system applications Additionally a number of disconnects between Supervisory Control Theory and their practical application exist These include but are not limited to the Avalanche Effect Inexact Synchronization and Simultaneous Events This thesis extends the application of SCT to the field of microcontroller based embedded systems Methods to minimize or remove the effects of Avalanche Effect Inexact Synchronization and Simultaneous Events are analyzed in a microcontroller based environment Additionally design procedures for the modelling and implementation of a supervisory controller executing within a microcontroller are explored To this end a physical implementation of a real system was created and documented An offline computation of the system supervisor is derived in MATLAB and stored in the system s onboard memory as a State Transition Table STT An optimized storage method is developed that allows for fast execution of state transitions and a low

memory footprint

A Microcontroller Based Stepper Motor Control System Dereng Mao,1990

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