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International Journal of Engineering and Advanced Technology (IJEAT)
ISSN: 2249-8958 (Online), Volume-9 Issue-2, December, 2019

Research of Professional of the Classification and Segmentation of Computed Tomography Brain Images

V.Sowjanya, Adusumilli Ramana Lakshmi

ABSTRACT---Subsequent to the process of classification, the more prevalently used part in most of the applications of image processingand computer vision is the image segmentation. The entire study concerning the Computed Tomography(CT) holds image segmentation as a very essential or even an inevitable part in classifying the different kinds of tumor in the different levels. Once classification of the parts or portions in the images as tumorous and non-tumorous is over, what follows next is the process of segmentation of the tumor regions in the CT images and it is the proposed methodology that takes the entire care of these both, classification and segmentation as well. For the purpose of classifying, the Support Vector Machine (SVM) with various parts and advancement systems is placed into utilization. At the point when it adds up to arrangement and improvement, the SVM with SMO appreciates an unmistakable power over different approachs in the investigation of grouping process. Following the characterization procedure, the MRG with limit advancement satisfies the division procedure. Concerning the edge advancement, certain calculations like HS,EP, Gray WolfOptimization (GWO) and Lion Algorithm (LA) are brought into utilization. The outcomes are shown with the assistance of a wide arrangement of execution measures. The near examination as far as affectability, explicitness and precision is directed in the enhancement procedures mentioned earlier. The implementation of the proposed methodology takes place on the working platform of MATLAB.

I. INTRODUCTION

Brain tumor is one of the most lethal maladies that medicinal science has ever observed. However, the reason for brain tumor still can't be clarified by therapeutic science; the fix of cerebrum tumor additionally stays a test to the nervous system specialist. As of late of advance therapeutic innovation, MRI (Magnetic Resonance Imaging) innovation is picking up significance over different techniques like CT examine to affirm the nearness of brain tumor in sufferers, because ofits ability to create three-D space photos. A mind MRIcan distinguish any irregularity present in the cerebrum with out utilizing detrimental radiation for what it's worth within the event of CT test [1]. Appropriate identification of cerebrum tumor is essential for further remedy of the affected person which may be performed through specific division of the brain. Image department assumes an crucial process in mind tumor discovery. Image Segmentation is a process which is finished to isolate picture statistics into clean and significant elements with the aid of putting limits isolating the everyday territory from the anomalous quarter which is beneficial in identification of tumor [2]. Image division is a difficult errand within the gift medicinal imaging. However, during the years severa analysts have proposed diverse strategies for cerebrum division yet troubles emerges in every strategy. The following area talks about cerebrum tumor and its sorts popular through third portion which examine about MRI. The 4thfragment explains the unmistakable pre-looking after steps admired by means of the 5th vicinity and is the reason the segment extraction. The 6thfragment explains approximately the portrayal of the brain tumor the use of ANN. Atlast, the seventh region wraps up the paper trendy by the 8th phase which includes the upcoming work.

1.1 ABOUT THE BRAIN TUMOR

A brain metastasis is a malignant growth that has metastasized (spread) to the cerebrum from any piece of the human body. Medical procedure, radiation treatment and chemotherapy are the main disease medicines that have gotten progressively proficient in the previous scarcely any decades. Side effects brought about by brain metastases are likewise existent in paltry, progressively normal circumstances. They are as per the following: vertigo, new beginning cerebral pains, intellectual character social changes, queasiness and regurgitating, memory misfortune, expanded intracranial weight paraesthesias, vision issue, Bell‟s paralysis, ataxia, seizures, etc. Cerebrum metastases are for the most part treated carefully by utilizing greatest careful resection trailed by stereotactic radio medical procedure or entire brain illumination furnishing predominant endurance related with complete cerebrum light independent. In the patients with one metastatic brain sore or estimated foundational malady, just a future of most extreme three months might be envisioned. To identify contaminated tumor from medicinal imaging modalities, division is utilized. Division is fundamental and significant advance in image examination; it is a procedure of isolating a images into various areas or squares sharing normal and indistinguishable properties, for example, shading, surface, differentiate, splendor, limits, and dark level.

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Adusumilli Ramana Lakshmi, Associate Professor,Prasad V Potluri Siddhartha institute of technology, Vijayawada, A.P, India. (Email: aramanalakshmi@gmail.com)

Implementation of Fault Current Detection System using IoT

Publisher: IEEE Cite This PDF

A Ravi ; A Khandeswara Rao ; P Pooja ; Y Sai Krishna Reddy ; G Krupa Kiran ; G Yesu Babu All Authors

Abstract

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I. Introduction

II. Overview of Project

III. Block Diagram

IV. Blocks Explanation

V. Results

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Abstract:
This paper aims to design a system that detects the excess current or fault current problems in industrial or home devices like chargers, batteries. When the current flow increases above the predefined threshold value, it prevents the damage by taking automatic decisions based on the obtained values from the sensors. It also monitors the current, voltage levels, and generates an alert message to the administrator whenever fault current is detected and accordingly the values of voltage and current will also get displayed in the mobile through Blynk application and also Email is sent to the registered email address whenever this fault current is detected. In addition to this, the power supply can be controlled from the mobile itself without any manual intervention by using the proposed model.

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Date of Conference: 2-4 July 2020

INSPEC Accession Number: 19875003

Date Added to IEEE *Xplore*: 04 August 2020

DOI: 10.1109/ICESC48915.2020.9155740

Publisher: IEEE

ISBN Information:

Conference Location: Coimbatore, India

Contents

I. Introduction

Industries play a major role in a country and power plays a vital role in an industry. Basically, fault can exist in four forms: 1. line-to-line fault 2. Double line-to-ground fault, 3. Single line-to-ground fault 4. Three phase faults. These types of faults can be prevented by using Relay modules or circuit breakers. Here the Relay module is used to turn off the power supply when this fault occurs. Electrical equipment is prone to disturbances which is fault imposed on the system such as overloading and short circuit [1]. In [2], the message is sent by the administrator to turn off the power supply. GSM technology is used to detect the fault current location, as the GSM module is limited distance communication [3]. In [5] RFID communication is used to monitor the parameters it is also a limited distance communication. In order to overcome these limitations, IoT technology is used as it enhances the speed of communication irrespective of distance. As the microcontroller and GSM modules are used in [2] it is cost-inefficient to overcome this, NodeMCU which consists of Microcontroller unit and Wi-Fi unit is used. As the automatic decision is taken by the proposed system, no manual intervention is needed to turn off the power if the fault current is detected.

Authors

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Keywords

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Raspberry pi based Smart Reader for Blind People

Publisher: IEEE

A Ravi ; Sk Khasimbee ; T Asha ; T Naga Sai Joshna ; P Gnana Jyothirmai **All Authors**

Abstract

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IV. Proposed Methodology

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Abstract:
As the blind and visually impaired population is present worldwide, there are some challenges faced by them while reading. Previously, Braille is the only solution for blind and visually impaired people to read and learn. But there is a lack of training Braille instruction and also there is a lack of Braille machine and their materials. To overcome these, a smart reader is proposed for blind population with the integration of Raspberry pi technique. In this paper - A smart reader for Blind with the integration of a whole textual content study out system with page turning mechanism and dictionary query feature is proposed. Finally, the text is read out through speaker or headphone. The system keeps the synchronization with the page turning mechanism and dictionary feature to provide interactive session to the user.

Published in: 2020 International Conference on Electronics and Sustainable Communication Systems (ICESC)

Date of Conference: 2-4 July 2020

Date Added to IEEE *Xplore*: 04 August 2020

ISBN Information:

INSPEC Accession Number: 19876981

DOI: 10.1109/ICESC48915.2020.9155941

Publisher: IEEE

Conference Location: Coimbatore, India

I. Introduction
A lot of statistics is reachable on the internet and in books. Louis Braille - creator of the well-known Braille script, this does have some limitations. One of which consists of special and high-priced printers to print in that unique script. These highly-priced printers will certainly end result in producing steeply-priced books. Moreover, the library for such type of books are enormously small. If the man or woman needs to examine a book which isn't present in the library for blind, they'll have to be dependent on different people who can examine with ease. And more regularly than not, this can't be the case always.

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AUTOMATIC ACCIDENT DETECTION AND RESCUE SYSTEM USING IMAGE PROCESSING AND IOT

Dr. A. Ravi, T. R. Phanigna, Y. Lenina, P. Ramcharan, P. S. Teja less • Published 2020 •
Computer Science

Generally, now-a-days growth of population increasing day by day leading to high demand of automobiles, leading to congestion, traffic hazards and resulting in road accidents and deaths. Majority of deaths occurred due to drowsiness and failure of reaching ambulance to the location on time which increases the chances of death of the victim. Therefore, life of victim is under high risk. This abstract proposes a system which consists of alerting system as well as rescue system. Alerting system alerts the driver with a buzzer using image processing if driver is feeling drowsy. Even if an accident occurred it is detected through vibration sensors which are connected to raspberry pi which collects information from the nature of the driver's eye as well as from sensors. And the location details of accident area are transmitted to the servers' using IoT. The "Ubidots" cloud is used to store the obtained results into the server and is used to envision results in its platform, whereas "IFTTT" named cloud is used and its applets sends a message to the parents of the victim. An MSS mobile application is used for the internal communication of the ambulance drivers. In this way by utilizing this accident alert and rescue system diminishes the death rate and also saves not only lives but families. Collapse

Abstract

6 References

Related Papers

References

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A Survey Paper On Drowsiness Detection & Alarm System for Drivers

Memory Testing and on Board Data Handling of Satellite Payload

Publisher: IEEE

M. Ranga Rao ; K. Dedeepya ; G. Pravallika ; M. Aparna ; M. Poorna Bhavani ; M. Chakradhar All Authors

Abstract

Document Sections

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III. Proposed Design

IV. Implemented Design

V. Hardware Description

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Abstract:
The proposed study explores the regulation, operation and performance of Raspberry Pi and external memory testing in space. Design of onboard data handling using raspberry pi, IR temperature sensor, atmospheric pressure sensor and UV sensor measuring non-contact temperature, pressure conditions and UV radiations resnectively in space had been drained this research. During this research, the watchdog also designed to avoid command because of data accumulation from sensors. By Implementing the encryption principle highly secured data will be exchanged, hence the info can't be hacked. This project implemented using Python language.

Published in: 2020 International Conference on Electronics and Sustainable Communication Systems (ICESC)

Date of Conference: 2-4 July 2020

Date Added to IEEE *Xplore*: 04 August 2020

ISBN Information:

INSPEC Accession Number: 19876918

DOI: 10.1109/ICESC48915.2020.9155980

Publisher: IEEE

Conference Location: Coimbatore, India

I. Introduction

There are a huge number of satellites and great estimated bits of old satellites simply sticking around in the circle. These bits of"space debris" [14] can be dicey to other working satellites and different shuttles going in or through the earth's circle. So ISRO has chosen to dispatch a SpaceShare (CubeSAT) which perform 10 distinct capacities one after another and decrease structuring this SpaceShare rather focus on satellites of longer usance (i.e., bigger applications). Growing little satellites [13] as per SpaceShare models adds to reducing the expenses of research and specialized stages. This contributes fundamentally to conquering the section obstruction to space, which has prompted a sharp climb in SpaceShare's prominence since its presentation. Contingent upon the particulars, a Nanosatellite [4] [8] can be constructed and set in the circle for 500,000 Euro. In the examination, the expense of a traditional satellite can be as high as 500 million Euro's i.e., around 3.9795 Crores in Indian money. Accordingly, if a Nanosatellite [9] is lost or one of the units comes up short, it very well may be quickly supplanted inside plausible timeframes and at a sensible expense. Each satellite inside a group of stars is recharged every 2–4 years, along these lines ensuring that the administrator will consistently have improved okay assistance that gets continuous mechanical updates. Nanosatellite star groupings are consequently frameworks [10] in which the ideas of out of date quality or helpful life are never again an issue. Counterfeit satellites fluctuate in size and cost contingent upon the utilization they are put to. This allows the CubeSat to use smaller, cheaper, less power-hungry sensors to extend the general performance of the CubeSat.

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Noise Reduction in SAR Images with Variable Mode CT

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications pp 315-321 | Cite as

- R. Durga Bhavani (1)
- A. Ravi (1) Email author (ravigate117@gmail.com)
- N. Mounika (1)

1. PSCMR College of Engineering and Technology, , Kothapeta, Vijayawada, India

Conference paper
First Online: 18 October 2020

Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 1245)

Abstract

Multiplicative noise of an image destructs the pixel association and leads to entropy loss. Somehow filters managed to reduce the noise but were not able to reform the image this leads to blurring of the image. To avoid this transform were measured, this results in a satisfactory image reconstruction with less part of information recovery. For this reason, enhancing image was considered, enhancing the image leads to improve entropy value. So, previously redundant and fusing methods were applied to Satellite Aperture Radar (SAR) images. Here we are providing a novel approach of fusing decomposition techniques i.e., Redundant curvelet transform (RFDCT) with variational Mode Decomposition (VMD). This results in the improvement of 11 parametric values and comparing with existing simulations of RFDCT, RFDCT with Empirical Mode Decomposition (EMD).

Keywords

Multiplicative noise Pixel association Entropy Blurring SAR Fusion RFDCT EMD VMD IMF

References

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DOI: 10.1007/978-981-13-8618-3_100 • Corpus ID: 202991231

Design of Microstrip Antenna with Extended Ground

N. Prasanthi Kumari, P. Suresh Kumar, G. Madhuri, B. Praveen Kitti less • Published 2019 • Business • Advances in Intelligent Systems and Computing

In this work, a novel microstrip antenna with the patch is compared with the patch with the ground extended of the same dimensions. The antenna with the extended ground has shifted frequency to higher side with better antenna performance is observed. A ground plane patches with 2.5 mm are placed on two sides of the patch. With this newer design, the frequency of the patch that is working at 3.6 GHz has shifted to 8.1–11.2 GHz (with better gain). This present antenna structure is fabricated using the lithographic technique. The proposed antenna provides a new way to improve physical ground plane more than the size of the original PCB ground unlike adding separate wires. Collapse

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Design and analysis of CPW-Fed microstrip patch antennas for wide band applications

R. Mishra, Ranjan Mishra, P. Kuchhal, N. Kumari •
Business, Computer Science • 2017 International Conference on Inventive Computing and Informatics (ICICI) • 2017

A CPW-Fed microstrip patch antenna of size 21×22×1.6 mm3 along with its three variants is proposed in this paper. Two slots are introduced on the patch of the base antenna to study the antenna… Expand

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Performance Enhancement of Rectangular Microstrip Antenna by Inserting Notches and Slits

R. Mishra, Ranjan Mishra, P. Kuchhal, N. Kumari • Business, Computer Science • 2018

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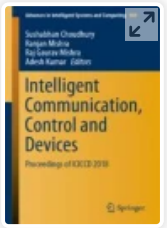

Intelligent Communication, Control and Devices pp 225–231

High Speed 64-Bit Booth Encoded Multiplier Using Compressor

G. M. G. Madhuri, Ch. Aruna Kumari, Ch. Monica & N. Prasanthi Kumari

Conference paper | First Online: 28 August 2019

Part of the Advances in Intelligent Systems and Computing book series (AISC,volume 989)

Abstract

The present paper is about design methodology of High speed Booth Encoded Multiplier. A Booth Multiplier consists of the Encoder, the partial product tree, carry propagate adder. The multiplicand and multiplier size (n) is 64-bit unsigned operands. Radix-16 Booth recoded multiplier is implemented using VHDL. To lessen the partial product addition, compressors are used. Using 3:2, 4:2, 5:2, 6:2, 7:2 compressors, and carry save and propagate adder, all partial products are added to get the final output product. The multiplier is implemented in VHDL using Xilinx.

Keywords

Radix-16 booth encoding multiplier **7:2 compressors**

VHDL

[OVERALL CHANGE]

Industry 4.0 An inclination towards Automation

Dr. N. Siva Surendra
Mrs. A. Siva Naga Lakshmi

Industries are changing their production capabilities in advanced progression. Manufacturing industries are shifting to new advanced domains in order to attain objectives and meet its' customer expectations. Changes of paradigm in the domain of manufacturing: mechanization through water and steam power, mass production in assembly lines and automation using information technology. It's the time for automation of work.

Industry 1.0 began around the 1780s with the introduction of water and steam power which helped in mechanical production and improved the agriculture sector to a great extent. Next, Industry 2.0 is defined as the period when mass production was introduced as the primary means to production, in general. The mass production of steel helped introduce railways into the industrial system which


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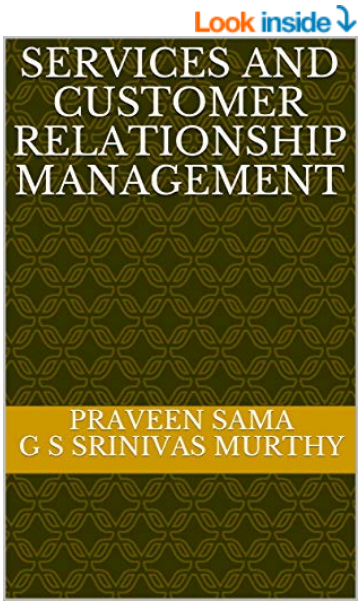

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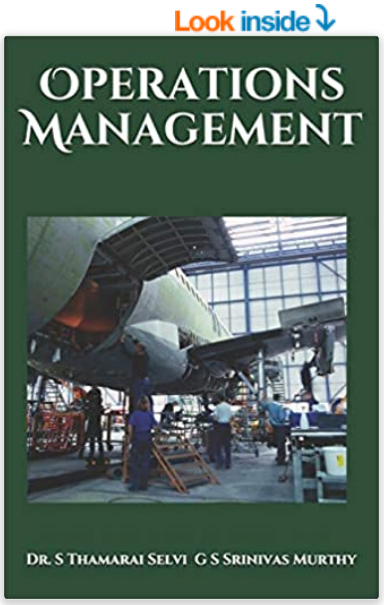

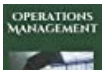


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MICRO, SMALL AND MEDIUM ENTERPRISES (MSME) IN INDIA: A STRATEGIC RISK MANAGEMENT APPROACH

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INTRODUCTION

The Economic Survey has pitched for a "sunset" clause on policy incentives given to small firms and asked the government to handhold "infant" or new firms rather than "dwarfs" — a term used by Chief Economic Advisor Krishnamurthy Subramanian to describe firms that never grow beyond their small size. Analyzing the Annual Survey of Industries (ASI) data, the survey said dwarfs accounted for more than half of all organized firms in the manufacturing sector, but contribute only 14 per cent in employment generation and a "mere" 8 per cent to productivity. "In contrast, large firms (more than 100 employees) account for three quarters of such employment and close to 90 per cent of productivity, despite accounting for about 15 per cent," the survey said, emphasizing that it is a misconceived notion that small firms are significant job creators as they are also responsible for job destructions because they "find it difficult to sustain the jobs they create".

While large firms create permanent jobs in large numbers, according to the survey, young firms create more jobs at an increasing rate than older firms. As a possible solution, the survey called for a "sunset" clause for a period of five-seven years for policy incentives beyond which a small firm "should be able to sustain itself". It further suggested re-orienting the priority sector lending norms to focus more on start-ups and "infants" in high employment elastic sectors dealing with rubber and plastic products, electrical and transport equipment, textiles, among others.

Strategic management is the science of managing projects in a way that maximizes the potential in terms of sales, profitability and productivity and achieving the business objectives. Strategic Management is concerned with maximizing an organization□s competitive advantage. The Strategic Management approach is to take a top management view of the organization which is deemed crucial in creating futures for the firm.The current field of strategic management is strongly theory based though its roots have been in more applied area.

METHODOLOGY

1. ***Need of the Study***

   Strategic management impacts positively on SMEs, some studies argued that strategy does have weak influence on firm's □performance; nevertheless, their observations are overwhelmed by other scholars that suggest strong relationship.

2. ***Objective of the Study***

   From the reviewed literature on the relationship between strategic management and SMEs development in developed countries, emerging countries and Indian economy, there is almost unanimous agreement among studies.

MONEY MARKET DERIVATIVES EMERGING TRENDS IN INDIAN CAPITAL MARKET PERSPECTIVE

KumaraSwamy Manepalli[1] & Dr.M.Ramkumar[2]
[1]Research Scholar, Department of Business Administration,
[2]Asst.Prof. Management Wing, Annamalai University, Chidambaram, Tamil Nadu

Introduction

The securities contracts (Regulation) Act 1956 defines "derivative" as under Section 2 (ac) includes "a security derived from a debt instrument, share, loan whether secured or unsecured, risk instrument or contract for differences or any other form of security". Equity, fixed-income, currency, and commodity markets are facilities for trading the basic assets of an economy. Equity and fixed-income securities are claims on the assets of a company. Currencies are the monetary units issued by a government or central bank. Commodities are natural resources, such as oil or gold. These underlying assets are said to trade in **cash markets** or **spot markets** and their prices are sometimes referred to as **cash prices** or **spot prices**, though we usually just refer to them as stock prices, bond prices, exchange rates, and commodity prices. These markets exist around the world and receive much attention in the financial and mainstream media. Hence, they are relatively familiar not only to financial experts but also to the general population.

Somewhat less familiar are the markets for derivatives, which are financial instruments that derive their values from the performance of these basic assets. This reading is an overview of derivatives. Subsequent readings will explore many aspects of derivatives and their uses in depth.

This first reading on derivatives introduces the basic characteristics of derivatives, including the following points:

- A derivative is a financial instrument that derives its performance from the performance of an underlying asset.
- The underlying asset, called the underlying, trades in the cash or spot markets and its price is called the cash or spot price.
- Derivatives consist of two general classes: forward commitments and contingent claims.
- Derivatives can be created as standardized instruments on derivatives exchanges or as customized instruments in the over-the-counter market.
- Over-the-counter derivatives are customized, flexible, and more private and less regulated than exchange-traded derivatives, but are subject to a greater risk of default.
- A swap is an over-the-counter derivative contract in which two parties agree to exchange a series of cash flows whereby one party pays a variable series that will be determined by an underlying asset or rate and the other party pays either a variable series determined by a different underlying asset or rate or a fixed series.
- A call is an option that provides the right to buy the underlying.
- A put is an option that provides the right to sell the underlying.
- An asset-backed security is a derivative contract in which a portfolio of debt instruments is assembled and claims are issued on the portfolio in the form of tranches, which have different priorities of claims on the payments made by the debt securities such that prepayments or credit losses are allocated to the mostjunior tranches first and the most-senior tranches last.
- Derivatives facilitate the transfer of risk, enable the creation of strategies and payoffs not otherwise possible with spot assets, provide information about the spot market, offer lower transaction costs, reduce the amount of capital required, are easier than the underlyings to go short, and improve the efficiency of spot markets.
- Arbitrage is the condition that two equivalent assets or derivatives or

IMPLEMENTATION OF THE AUTOMATIC DECISION-MAKING SYSTEM AND MONITORING INDUSTRIES USING IoT

MONITORING INDUSTRIES USING IoT

Dr A Ravi[1], A Khandeswara Rao[2], P Pooja SK Reddy[3], G Yesu Krupa Kiran[4]

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Potti Sriramulu Chalavadi Mallikharjuna Rao College of Engineering & Technology, Vijayawada, India[1,2,3,4]

ABSTRACT

Industry is a strong manufacturing base on which rest of country growth depends on. So, automating the industry with newer technology is must to increase economy of the industry. Now a days most of the industries are automated with Robots to reduce work burden of the human being. This automation Includes sensors/actuators to primarily collect and display the data and can be controlled accordingly. As there is need of Industry 4.0 which basically need to connect the Industry to INTERNET is termed as Industrial IoT. In order to increase the efficiency of the industry a regular maintenance is required to keep the industry work going. Here we are using IoT to keep a track on the working condition and surroundings of industries such as Temperature, Power consumption, gas leakage etc., by using Wi-Fi Module. And whenever the current flow increases the power supply is automatically disconnected and the alert notification is sent to the Administrator. These data will be sent to Internet so that where the data would be stored in Data Cloud. By using the advantages of IoT the industries can be regularly monitored. By using this system, the industries will be benefited more.

Keywords- Microcontroller, Sensors, IoT, Cloud, power measurement, Wi-fi module

FULL PAPER

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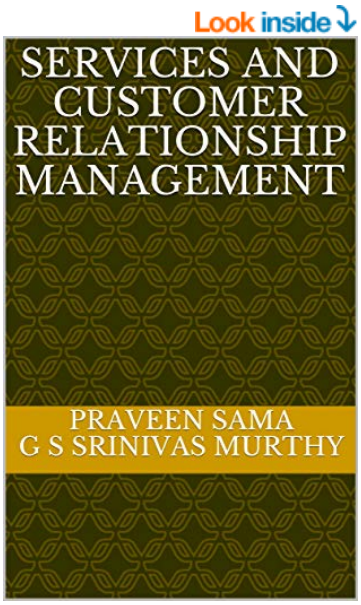

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