

ICACA – 18

2ND INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTING APPLICATIONS

RYMEC, Ballari, Karnataka

25th - 26th April, 2018

Organized by:

**Department of Computer Science and Engineering,
Rao Bahadur Y Mahabaleswarappa Engineering College**

and

Institute For Engineering Research and Publication

From Director's Desk



Rudra Bhanu Satpathy.,

Director,

Institute For Engineering Research and Publication.

On behalf of ***Institute For Engineering Research and Publications (IFERP)*** and in association with ***Rao Bahadur Y Mahabaleswarappa Engineering College, RYMEC, Ballari, Karnataka.*** I am delighted to welcome all the delegates and participants around the globe to ***Rao Bahadur Y Mahabaleswarappa Engineering College, RYMEC, Ballari, Karnataka*** for the ***“2nd International Conference on Advances in Computing Applications”*** Which will take place from 25th -26^h April '18

Transforming the importance of Engineering, the theme of this conference is ***“2nd International Conference on Advances in Computing Applications (ICACA-18)”***

It will be a great pleasure to join with Engineers, Research Scholars, academicians and students all around the globe. You are invited to be stimulated and enriched by the latest in engineering research and development while delving into presentations surrounding transformative advances provided by a variety of disciplines.

I congratulate the reviewing committee, coordinator (**IFERP & RYMEC**) and all the people involved for their efforts in organizing the event and successfully conducting the International Conference and wish all the delegates and participants a very pleasant stay at ***RYMEC, Ballari, Karnataka.***

Sincerely,

Rudra Bhanu Satpathy

Preface

The “**2nd International Conference on Advances in Computing Applications**” is being organized by **Rao Bahadur Y Mahabaleswarappa Engineering College (RYMEC)**, Cantonment Ballari, Karnataka in association with **IFERP-Institute for Engineering Research and Publications** on the 25th - 26th April, 2018.

Rao Bahadur Y Mahabaleswarappa Engineering College has a sprawling student –friendly campus with modern infrastructure and facilities which complements the sanctity and serenity of the major city of Ballari in Karnataka.

The “**2nd International Conference on Advances in Computing Applications**” was a notable event which brings academia, researchers, engineers, industry experts and students together.

The purpose of this conference is to discuss applications and development in area of “**Advances in Computing Applications**” which were given international values by **Institute for Engineering Research and Publication (IFERP)**.

The International Conference attracted over 89 submissions. Through rigorous peer reviews 71 high quality papers were recommended by the Committee. The Conference aptly focuses on the tools and techniques for the developments on current technology.

We are indebted to the efforts of all the reviewers who undoubtedly have raised the quality of the proceedings. We are earnestly thankful to all the authors who have contributed their research works to the conference. We thank our Management for their wholehearted support and encouragement. We thank our Principal for his continuous guidance. We are also thankful for the cooperative advice from our advisory Chairs and Co-Chairs. We thank all the members of our local organizing Committee, National and International Advisory Committees.



Chairman's Message

I am really happy to know that the Department of Computer Science and Engineering is organizing 2nd International Conference on Advances in Computing Applications (ICACA-2018) on 25th & 26th of April 2018. I hope that this conference would surely induce modern ideas among the participants paving way for new inventions in the Area of Computing applications.

I wish that deliberations of conference with innovations shall be useful to technocrats. New findings of technical conference should always help to solve society related problems.

CHAIRMAN,
R.Y.M. Engineering College,
(Formerly Vijayanagar Engg. College)
Cantonment, BELLARY-583 104.
Sri J.S.Basavaraj
Chairman
RYM Engineering College, Ballari.



Principal's Message

It is indeed a matter of immense pleasure to announce that the ICACA-18, RYMEC, is going to organize the 2nd INTERNATIONAL CONFERENCE IN ADVANCES IN COMPUTING APPLICATIONS (ICACA-2018). I am confident that the conference discussions and the publication of the conference proceeding will bring opportunities among the academicians, corporate delegates, research scholars and students to present their innovative ideas, most up-to-date findings, and technical proficiency in the various fields of Research trends in Computer Science and Application. On behalf of RYMEC, I heartily welcome the Honourable Keynote Speaker, eminent academicians, corporate delegates and all the paper presenters to ICACA-18.

I wish all the success for the ICACA-2018 conference.

Dr. Kuppagal Veeresh
Principal
RYM Engineering College
Ballari.



Vice Principal's Message

It is quite inspiring to watch and witness the potential of our staff and students of CSE Department in organizing International Conference ICACA- 2018 in association with IFERP. The management has always been supportive for the Departments to reach the pinnacle of perfection through various activities. Congratulations to the Delegates for presenting the papers in the conference and to the Editorial Team for their determined efforts in bringing out the Conference Proceedings.


Dr. Savita Sonoli

Vice Principal
RYM Engineering College, Ballari.

VICE PRINCIPAL
R.Y.M. Engineering College,
(Formerly Vijayanagar Engg. College)
Cantonment, BALLARI-583 104.



Message on occasion of 2nd International conference on advances in computing applications (ICACA – 2018)

It is happy to note that CSE department is organizing 2nd International conference on advances in computing applications on 25th and 26th April 2018 organized by CSE Department, RYMEC, Bellary. This conference is a venue for researchers to deliberate and exchange new findings in research arena of Computer Science and Engineering field and its allied fields. It is an opportunity to update ourselves on what is the latest and best in the field of Computer Science and Engineering. The topics of the conference are very important and will help researchers to enhance their knowledge in the field of Computer Science. The organization of the conference will improve the academic ambience of the department which is main pillar for any technical institution.


Dr T. Hanumantha Reddy

Professor and Head
Department of Computer Science and Engineering
RYM Engineering College, Bellary



ICACA-18 Conference Convenor Message

I am gratified being designated as the convenor for 2nd international on Advances in Computing Applications (ICACA-2018), to be held at RYMEC, Ballari, Karnataka from 25th – 26th April 2018. The conference is jointly being sponsored by the Institute for Engineering Research and Publication (IFERP) and RYMEC. It is organized by Department of computer Science & Engg, RYMEC, Ballari, Karnataka, India.

The aim of the conference is to bring together researchers, scientists, engineers and practitioners to share and exchange their experiences, new ideas and research results about Artificial Intelligence and computing systems. After rigorous peer review process, the submitted papers were selected on the basis of originality, significance and clarity for the process of conference. I am grateful to all those who have contributed to the success of ICACA 2018, especially all the authors and the participants who responded to our call for papers. My sincere gratitude for the efforts put by conference technical committee, program committee, organizing committee and advisory committee, who have made this event possible.

Dr Anuradha SG

Associate Professor
Department of Computer Science and Engineering
RYM Engineering College, Ballari.

ICACA -18

*2nd International Conference on
Advances in Computing
Applications*

Keynote Speakers



Mr.Murali Sundaram.,

Technology Bricoleur, Emerging & Innovation Technologies

BIOGRAPHY

I have developed technology strategies for organizations / clients to adopt emerging trends, Design thinking, Block Chain adoption, Ideation, Reverse Innovations, Crowd Sourcing, and Start-ups integration

I have enabled emerging technologies in Mobile, Big Data, Internet of things, Chatbots, Wearable computing, VR /AR adoption and 3D printing integrating vendor solutions with practice solutions. I have lead technology modernization initiatives for with key focus on emerging technologies

I have actively proliferating disruptive innovations and emerging technologies with colleges and universities. I have helped them setup labs in the respective areas (Cloud, IoT, 3D printing, Immersive experience, Software Engineering or even in Innovation labs). I am actively evangelizing these aspects in conferences, workshops, and professional forums and blogging about it.

My twenty plus years of professional network is rich with technologists, practitioners, executive leaders, serial entrepreneurs, innovators and academicians

Specialities : Design Thinking, Smart Cities, Speed Geeking, Crowd sourcing, Disruptive innovations, Cloud computing, Block Chain, Wearable computing, Internet of things, Chatbots, VR / AR. 3D Printing, Crow Funding, Start-up workshops

Experience :

➤ Consultant at Cognizant Technology Solutions

Fast tracking emerging technologies, supporting with technology outlook group to build technology vision for

➤ Global Technology office, Technology Advisor at Early Stage Startups

Advising on LAsT Mile Platform solution - Android as platform addresses heterogeneous back ends and

apps landscape has answer for enterprise, social and cloud apps. Partners with two vendors and evaluating

➤ Advisory Council Member at Harvard Business Review

➤ Technology Consultant at AU-KBC Research Centre

➤ Distinguished technologist- Emerging technologies, Cloud Computing, Big Data, Mobile Computing and Internet of things.

➤ Distinguished technologist at CSC

➤ Technology Advisor at Madras Institute of Development Studies

➤ Technology Advisor at Infor

➤ Consultant at Ness Technologies (part of Innova solutions acquired by Ness)

➤ Project Manager

➤ ERP Consultant at Kuehne + Nagel

➤ ERP Consultant at Toyota

➤ Technology Consultant at Visa

- **Technology Consultant at ADVIZOR Solutions**
- **Sr.Consultant at Lexmark**
- **Technology Consultant at SWIFT**
- **Consultant at Hewlett-Packard, Apollo**

Education:

Indian Institute of Technology, Madras

B Tech, Engineering, 1976 - 1981

Activities and Societies:

- IIT Alumni
- Central Polytechnic, Adyar Pre Technical Course, Engineering, 1975 – 1976
- CPT Alumni

Message

We are at an unprecedented time where innovation and disruptions are happening all over the globe.

Technology and business opportunities are available for every common engineer. Startup ecosystem is flourishing and there more younger entrepreneurs in the world today - than about 10 years back. With this much opportunities in the world and beyond (perhaps even at mars) - is within our reach

Congratulations on the international conference. Best wishes for all participants



Dr.K.Meena.,

Associate Professor/CSE, Veltech, Chennai.

Message

It is my great pleasure and honor to welcome all the participants from various parts of the country to 2018 **2nd International Conference on Advances in Computing Applications**

I convey my warm greetings and felicitations and extend my best wishes for the success of the International Conference. This would serve as platform for several discussions and meaningful debates pertaining to emerging technology.

I wish the conference a grand success.

ICACA -18

2nd International Conference on Advances in Computing Applications

RYMEC, Ballari, Karnataka, April 25th - 26th, 2018

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- ❖ **Nitin jain**, Assistant Professor, Galgotia university, greater Noida, india

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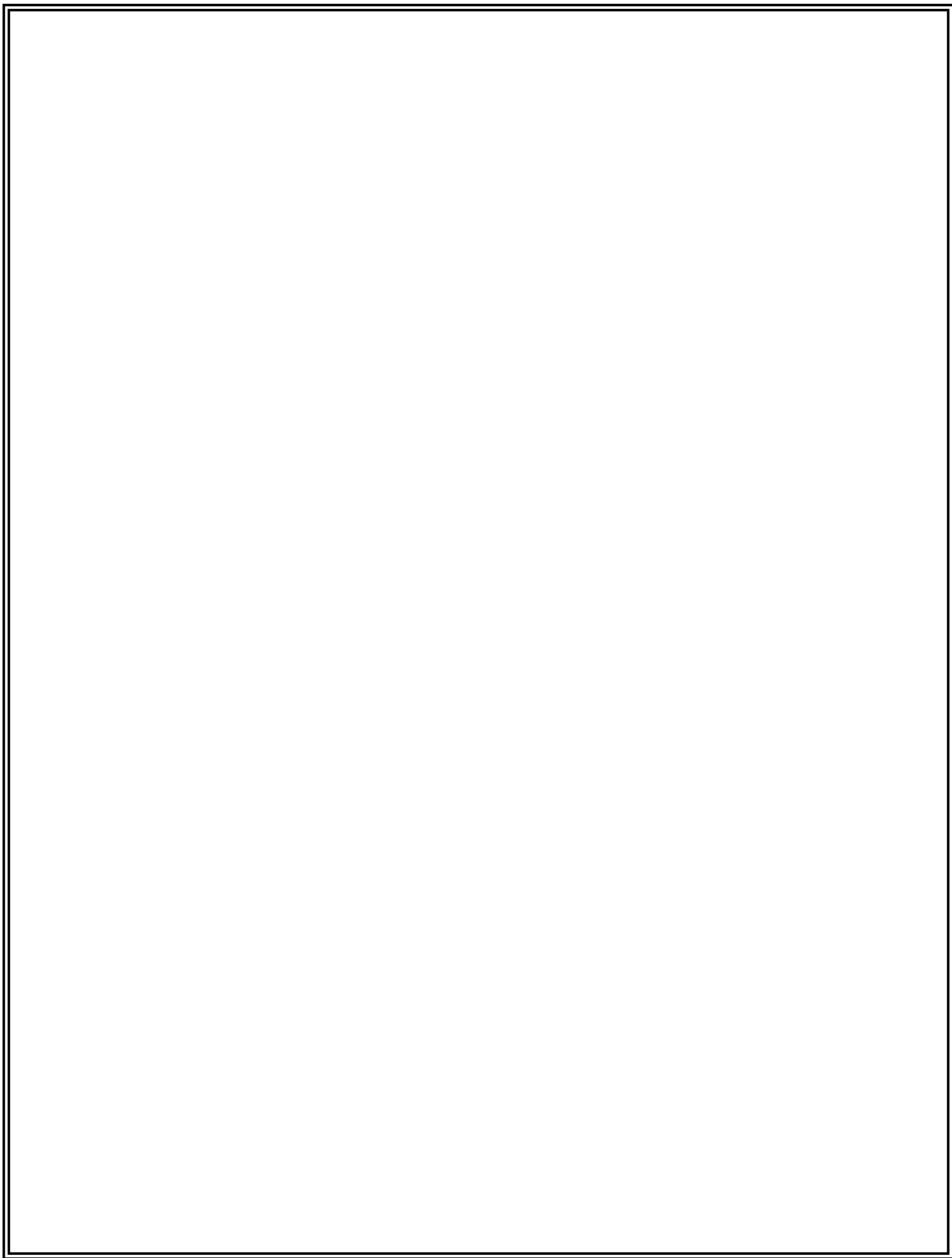
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ABSTRACTS

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Design and Implementation of IoT Enabled Wireless Sensor Network Applications

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Abstract:--

This paper is an advanced solution for monitoring various climatic parameters at a particular place and makes the information visible anywhere in the world. The technology behind this is Internet of Things. The IoT allows objects to be sensed or controlled remotely across existing network infrastructure, creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in accuracy, economic benefit and improved efficiency in addition to reduced human intervention. The main goal is to monitor and report the temperature, humidity, light intensity and moisture content in any location i.e. agricultural fields, high temperature zones in industries, cold storages and other locations.

Keyword:

IoT, network, NodeMCU 8266, Amazon Web Services,

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Automated Mentoring System

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Abstract:--

Automation has become a boom for the present and future generation, which helps in efficient documentation of the data digitally for better transparency, centralization of data and for the quick review of the contents as and when required without spending much of the time in searching through loads of book which is an inefficient process. Mentoring is an age-old method which effectively and efficiently transfers the knowledge and skills from an experienced person to inexperienced personnel. This methodology is used in different sectors like industries, educational field for the overall upliftment. Mentoring requires constant meetings and documentation of the progress being noticed. This paper focusses on implementing the automation to the mentoring systems which can be utilized for the effective and efficient the mentoring system in Dept. of CSE, RYMEC. The tool being proposed would also be useful for the students to provide feedback about the facilities being provided by management and so on, which would reduce considerable amount of time compared to the present system in existence.

Keyterms:--

Mentoring, Mentee, Mentor Automation, Admin, login, System Architecture, feedback

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Data Privacy in cloud

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Abstract:--

Cloud Computing provides the services to the users for storing the data moved into the cloud securely. Small and medium organisations are nowadays giving least importance to the IT infrastructure and instead moving their data and information to the cloud. To provide secure access to the data moved into the cloud by Data privacy in cloud. This approach uses the cryptographic ways to encrypt the data which is being stored into the cloud by the owners of the data. The data is secure because the access to the data is being given by the owner any of other users to decrypt the data. Without the owner permitting the access to the data, any other user cannot access the data. So, by using the Data privacy in cloud approach, data uploaded to the cloud is much more secure.

Keywords –

Cryptography, Role-based access control, Data-centric solution, Proxy re-encryption, Private key generator,

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Surveillance Robot

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Abstract:--

this system gives the details of the robot surveillance system which can be used for the security purpose in various fields. As security has become the major issue in every field there are many existing systems that does not meet the requirement of the people like CC TV and remote controlled robots. Our proposed system can be controlled at wide range distance using android mobile application and can stream live videos and capture pictures when required. Ultrasonic sensor is used to detect the obstacle, capture and send to the user. Here we use WIFI to connect robot to android application.

Keywords:

Camera, Ultrasonic Sensor, Raspberry pi 3, Mobile application, WI-FI.

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Real-Time Big Data Analytics for Remote Sensing Application

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Abstract:--

Big data is high speed data with continuous stream. They are from various sources that include Internet, mobile devices, social media, geospatial devices, sensors, and other machine generated data. Big Data phenomenon and has created initiatives to exploit Big Data in many areas such as science and engineering, healthcare and national security. Presently a day's remote senses advanced world produce huge amount of volume of constant information called as "Large Data, Enormous data generated by Satellite sensors, Storage and Processing of Remote Sensing Data which is a challenging task due to its variety and volume. This project studies on real-time Big Data Analytical architecture for remote sensing satellite application. To control Remote Sensing Data proposed architecture which includes three main units, such as remote sensing big data acquisition unit (RSDU), Data processing unit(DPU) and Data analysis decision unit(DADU).First, RSDU is initial process which collects data from satellite and sends data to the base station. Second, DPU which play a virtual role in architecture for efficient processing of real time big data by providing filtration, load balancing, and parallel processing. Third, DADU which is responsible for compilation, storage of the results and it is placed in the upper layer unit of the proposed architecture. This architecture has the ability of dividing, load balancing, and parallel processing of only useful data. Thus, it results in efficiently analyzing real time remote sensing big data using earth observatory system. Furthermore, the real time big data architecture which as ability of storing incoming raw data to perform offline analysis on largely stored dumps, finally the analysis of remotely sensed earth observatory big data for land and sea areas provided by using Hadoop. In additionally various algorithms are proposed for each level of RSDU, DPU, DADU to detect land and sea or ice Area for remote sensing big data images.

Keywords:

Big data, big data analytics, NoSQL, Hadoop, distributed file system, MapReduce.

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Control of Wheel Chair and Home Automation Using Mobile Application

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Abstract:--

It is difficult for the people who are aged and having physical disabilities to move about and to operate house hold appliances without any external help. The proposed project based on Bluetooth technology is targeted for above mentioned people. It enables them to move independently from one place to another place without any external aid and at the same time it also helps them to operate house hold electric appliances using wireless communication. The wide spread prevailing loss of limbs is day-to-day scenario due to wars, accidents, age and health problems [2]. The proposed system is prototype wheel chair that can be commanded by patient itself. The main advantage is to design a wheelchair that will be operated using wireless blue technology and will be very easy to operate it with no physical efforts [1]. This paper analysis the motion technology through android mobile application with an inbuilt Bluetooth module. The Signals from the Bluetooth module are controlled by the microcontroller.

Keywords:

Android mobile application, Bluetooth module HC-05, Wheelchair, LPC2148Microcontroller, DC Motor.

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A Novel Framework for Context Based Focused Search Engine

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Abstract:--

Context based Focused search engine is the information retrieval tool that narrows the search space by finding the documents relevant to user query only. The objective of a focused search engine is to return more specific results in response to a user query rather than large number of results. In this paper, the architecture for such a focused search engine has been proposed that works on the basis of the context of web pages and serve the user with contextually more related web pages semantically.

Keywords:

Search Engine, Semantic Search, Context based Search.

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IOT Based Smart Home Security System

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Abstract:--

A people usually spends a lot of quality time in the home. There is always endless efforts of human race, trying to achieve comfortable life. That's the reason why we are using the concept of smart home. In this paper we are using IoT based smart home automation and security system. Internet of things conceptualizes the idea of remotely connecting and monitoring real world objects through the internet. The quality of a daily life, reduction of cost and increasing security are the main important issues when we design a smart home. Arduino microcontroller is a central processing unit has been used. So that the all proposed system will be processed. The ESP8266 is a wireless communication devices, used by the system which gives a wireless access to smart phone by using low power. In this paper we use two sensors like PIR sensor and Gas sensor are used for security purpose of the house. According to the sensors signals received sensing signals by microcontroller, it will send a message to the mobile station through the GSM modem and then it alerts the owner that there is presence of trespasser in the house.

Key words:

PIR sensor, gas sensor, GSM module, UNO Arduino, ESP8266(wireless module).

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Automation system to measure the performance of employee

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Abstract:--

This paper provides an overview of online student feedback system in educational institutions. Subsequently; this paper describes how data from Student Feedback system is used to observe the quality of teaching of lecturer. The online Student Feedback system with data access restrictions can be used by the eligible students after logging into the portal. The authenticated students can provide feedback and the evaluation is based on students' response in Student Feedback Online system that measured the lecturers' ability based on the lecturer's professionalism and teaching methods. Lecturers can see the feedback given for the courses handled by them, HOD can view the feedback handled by him and the feedback of all other lecturers of the department and the Administrator can view the feedback for any lecturers. Consolidated feedback details should be accessible in easily recognizable visual forms like graphs or plots. Keywords: Feedback, system, forms.

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Topic Modeling using TF-IDF and Linked Data

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Abstract:--

An information processing unit takes an input of raw data, this data is passed through various steps to generate useful information. Topic modeling is a process in which raw text corpus is passed onto a series of steps so that the document can be categorized into a set of topics. There are various methods for achieving topic modelling like Tf-Idf, LSI, LDA. These topics are then looked up onto global repository of linked information such as dbpedia. This paper explores ways to map local topics with global counterparts and retrieve useful information so as to develop intelligent systems capable of understanding semantics..

Key words-

Dbpedia, Linked Data, Topic Modeling, Tf-Idf.

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Hadoop Data Analysis on YouTube Statistics

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Abstract:--

In past decades the analysis of structured data has seen remarkable achievement. The principle objective of this project is to show, how data produced from YouTube can be mined and utilized to achieve targeted and real time decisions by using Hadoop framework. In this Project the dataset is gathered using the YouTube API and stored in Hadoop Distributed File System (HDFS). MapReduce algorithm is applied to process the dataset and identify the top video categories and video uploaders as well as most viewed videos.

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An Overview of Text Mining and Its Techniques

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Abstract:--

In KDD data Mining step is generally involved with the pattern detection in numeric knowledge, however fairly often necessary (e.g., important to business) data is hold on within the kind of text. Unlike numeric knowledge, text is usually unstructured, and troublesome to handle. Text mining normally incorporates of the analysis of text documents with the extraction of key phrases, concepts, etc. and also the training of the text practice therein way for additional analysis with lot of data Mining approaches. In explorative knowledge Analysis, some initial information is understood regarding the info, however data mining might facilitate in a very a lot of in-depth information regarding the info. Seeking information from huge knowledge is one amongst the primary attributes of knowledge mining. Manual data investigation about for an only some periods currently, however it creates a bottleneck for big data analysis. Variety of information retrieval techniques measure developed to extract this huge quantity of knowledge. Previous studies on data processing specialized in structured knowledge, like relative and transactional knowledge. Conversely, in certainty, a substantial section of the data is hold on in text databases that consist of enormous collections of documents from varied sources, like news articles, books, digital libraries and web content.

Keywords:--

Text Mining, IE, IR, NLP

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A Comparative Analysis between Traditional Virtualization and Container Based Virtualization for Advancement of OpenStack Cloud

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Abstract:--

LXD based machine containerized new concept in the virtualization world. Its give performance to the bare metal virtualizations. A Centralized system is accessed through IP and can be scalable on demand as per requirement, Technology that eases the user problem like hardware, as well as software most popular technologies, is known as Cloud Computing. As per enterprise and industries demand cloud computing holds a big part of IT world. An OpenStack is a way to manage public and private cloud computing platform. A Linux Container Hypervisor brings Cloud Computing to the next generation Hypervisor with its features Fast, Simple, Secure. The main goal of this paper is factual calibrate is determine various virtualization technique and performance analysis.

Key words:

OpenStack, LXD, Cloud Computing, Virtualization, Container, Hypervisor

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Genetic Algorithm based Load balancer Resource Allocation in Intercloud Environment

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Abstract:--

Load balancer using Genetic Algorithm plays a crucial role in the performance of Intercloud platform. Resource allocation needs accurate and thoughtful precision in performance, as incoming applications could be impatient and erratic, resources will be limited and time constraint will be steep. Establishing trade off between demand and supply using available resources is tough. As the rate of arrival of application is sporadic, deadlines are stern and resources are restricted in Intercloud, it calls for an efficient resource allocation algorithm. Genetic Algorithm-based resource allocation shows better result than traditionally used FIFO. Decision variables considered are making span time and throughput.

Keyword: -

Genetic Algorithms (GA), FIFO. Broker, SLA (Service Level Agreement)

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A Comparative Study on Fake Review Detection Techniques

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Abstract:--

Opinion mining has played a significant role in providing product recommendations to users. Efficient recommendation systems help in improving business and also enhance customer satisfaction. The credibility of purchasing a product highly depends on the online reviews. However many people wrongly promote or demote a product by buying and selling fake reviews. Many websites have become source of such opinion spam. This in turns leads to recommending undeserving products. This literature survey is done to study the various fake review detection techniques in detail and to get ourselves familiar with the works done on this subject.

Index Terms—

Fake Review Detection Systems, Opinion Mining, Recommendation Systems.

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TimeTable Generator.

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Abstract:--

The Timetable scheduling process is one of the difficult task for any Institute or schools or colleges. This timetable scheduling process is generally made manually which is a hard task to perform and to make it easy even the existing timetable is used. This process is very lengthy and difficult to perform. Here the development of a system is put forward to overcome all of these problem and give the best possible result.

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Ant Colony Optimization Based OD-PRRP for Wireless Sensor Networks

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Dr.S.Nagaprasad ., Faculty of Computer Science, Dept. Of Computer Science, S.R.R.Govt.Arts & Science College, Karimnagar, Telangana State.

Abstract:--

WSNs are composed of hundreds or thousands of sensor nodes which are deployed either inside the phenomena to be observed or very close to it. These sensor nodes are responsible for collecting & processing and routing data either to other sensor nodes or directly to a base station (BS). In most of the applications, sensor nodes are deployed in a random & uncontrolled manner. These uncontrolled deployment methods cause the random distribution of nodes, i.e., node density is not uniform in the area under consideration. In WSNs, for which designing of protocols is application specific, focus on a single isolated technique cannot lead to optimum levels of energy efficiency, scalability and improved network lifetime. Consequently, exploring several energy efficient and scalable mechanisms that address several different characteristics of the network can help in contributing significant improvements in the various network performance metrics (energy efficiency, scalability, load balancing, network lifetime, overheads, delay, and throughput). The other goal of the paper is to propose an application of computational intelligence-based approaches such as Ant colony optimization which manages WSN characteristics.

Keywords:

WSN, Delay efficiency, Hierarchical Routing, Ant Colony Optimization Based Orthogonal Directional Proactive-Reactive Routing Protocol

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Youtube: Bigdata Analytics using Hadoop and Map reduce

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Abstract:--

we live in a digitalized world today. An enormous amount of data is generated from every digital service we use. This enormous amount of generated data is called Big Data. According to Wikipedia, Big data is a word for data sets that are enormous in size or compound that traditional data supervision application software is pathetic to compact with them [5].Big data defies embrace receiving data, data storage, data analysis, search, sharing, transfer, visualization, querying, updating and information privacy. Google's video streaming services, YouTube, is one of the best examples of services which produces a huge quantity of data in a very short period. Data mining of such an enormous quantity of data is performed using Hadoop and MapReduce to measure performance. Hadoop is a system which delivers a consistent collective storage. The storage is provided by HDFS (Hadoop Distributed File System) and analysis by MapReduce. MapReduce is a programming model and an associated implementation for processing large data sets. This paper presents big data analysis on Youtube using Hadoop and MapReduce techniques.

Keywords—

Big Data definition, Data mining, YouTube data analysis, Hadoop, HDFS, MapReduce, unstructured dataset analysis..

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Sentiment Analysis of News Articles using Probabilistic Topic Modeling

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K C Ravishankar., Government Engineering College, Hassan, India

Abstract:--

In this age, information is available in abundance on the internet, there are many platforms where news articles are published. It is nearly impossible to manually read articles from all the sources to understand the opinions of the authors. We require sentiment analysis systems to automatically detect sentiments of topics discussed by authors of these articles. Sentiment Analysis is the process of evaluating a piece of text to determine whether the expression is positive, negative or neutral in nature. In this paper, we present a system that performs Sentiment Analysis of topics which are discovered from a collection news articles using probabilistic topic modeling technique called Latent Dirichlet Allocation. We found that there was coherence between our results and the real-world scenarios that existed at the time of publication of the articles.

Key words:

Sentiment Analysis, News Articles, LDA, Topic Modeling, Computational Linguistics, Machine Learning

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Real time monitoring of heart diseases using Electro Cardiogram

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Abstract:--

The objective of this paper is to develop a wireless wearable ECG monitoring system embedded in an IOT platform. Heart disease is the leading cause of death for people across the world and it can be controlled by detecting the heart diseases at early stages. Comprehensive cardiac diagnostics including Arrhythmia and Cardiovascular diseases. Hence early detection of the heart disease is very crucial. The objective of this paper is to develop a wireless wearable ECG monitoring system embedded in an IOT platform. It enables early detection of cardiac diseases due to its ability to continuously monitor and analyze the ECGs in both resting and ambulatory modes. The system makes use of microcontroller (NodeMCU), ECG sensor, portable battery and allows monitoring a patient on a relatively large indoor area. A threshold value will be set when the system detects the heart beat range which crosses threshold value, then the system sends an alert message to the family members, patient and to the concerned hospital.

Keywords:

Wireless wearable ECG, microcontroller (NodeMCU), ECG sensor, detection of heart diseases at early stage.

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Modified Map Reduce Algorithm for Frequent Itemset Mining in Big Data

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Abstract:--

Frequent Pattern Mining (FPM) is one of the most well-known techniques to extract frequent patterns from data. It plays an important role in association rule mining, finding correlations and trends etc. Finding Frequent Patterns becomes a very difficult task when they are applied to Big Data. Many researchers have proposed many algorithms to generate FIM, but the execution time and storage space plays a key difference. All the existing algorithms hold well only when the dataset is small. So there is a need to propose an efficient algorithm to find frequent itemsets from Big Dataset using constraints. In almost all FPM algorithms, Frequent 1-itemsets are generated to find the support count (occurrences) of each item in the entire database. In order to increase the efficiency of generating FIM, cache is introduced so that the support count can be calculated in the cache itself. For this a Modified Map Reduce algorithm has been proposed.

Keywords:

Frequent Pattern Mining, Frequent Itemset Mining, Data Mining, Map Reduce Algorithm

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Decentralized Network for Retrieval of Secret Information in Wireless Area Network

Rachel Evangeline Christian., P G in Computer Science and Engineering RYMEC Ballari

Abstract:--

In this paper, our proposed system conveys a safe and secure information system with CP-ABE on the decentralized Network in which any number of authorized authorities can man access their own secret keys personally. Our results conveys the way to practice the suggested implementation strongly and effectively to address the secret facts disseminated in the disturbance of wireless area network. Many applications require increased protection of confidential data including access control methods that are cryptographically enforced.

Keywords:

Secret Information, CP - ABE, Decentralized network, cryptography.

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Speech Assistance Campus Navigator of RYMEC

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Abstract:--

Campus navigator is a mobile application which is based on Bluetooth. We are proposing a solution for students, parents and visitors who visit's the college for the first time, they does not know where the destination location present in order to solve that problem we are suggested this method. They can use their own smart phones and an embedded device for additional information. The data from Bluetooth gets transmitted and it can be monitored in Smartphone. Our proposal is more suited for campus environment of manufacture industries, software companies, college and universities, government campus etc. In this project we are concentrating on visitor assistance and security for the campus. Both concepts are achieved successfully. Speech output is embedded in the project which provides better assistance for the visitor.

Keywords:

Navigator, Renesas Microcontroller, RFID Reader, LDR.

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A new incremental mining of frequent item set on large unstructured dataset

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Abstract:--

The information present in the unstructured dataset are often inaccurate in nature. In this paper we examine the problem of preserving the mining result for a dataset that is changing by pushing a new tuple into the dataset. The problem is technically difficult because an uncertain[14] dataset contains an exponential number of possible worlds. To overcome this problem we proposed a KNN (k-nearest neighbor) algorithm to get the content of each review. Here we need to apply k-value based on that display the review with the classification. All our approaches support both tuple and attribute uncertainty, which are two common uncertain data set models.

Index Terms—

knn, dataset, mining, attribute

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Innovative Smart Car for Safe Drive

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Soumya K., E&CE Dept., RYMEC, Ballari, Karnataka, India

Swapna I., E&CE Dept., RYMEC, Ballari, Karnataka, India

Abstract:--

This paper focuses on how to avoid accidents due to drunk and driving and reduce the impact of the accidents by wearing seat belts. In recent times, accidents due to drunken driving are increasing. Drunken drivers will not be in stable condition and so the rash driving is the inconvenience for other road users and also question of life and death for the drunken driver and for others. The effects of accident can be minimized by wearing seat belts but people often neglect or forget to wear the seat belt. In current project, an Auto Lock System is developed. The input for the system is from Detection Sensors either from Alcohol Breath and the seat belt system. The controller polls the output from these sensors. If there are any traces of Alcohol above the set limit, and if seat belt is open, then the system will lock the Engine.

Keywords:--

Sensor; Motor; Microcontroller, Embedded-C

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Overview of Virtual and Augmented Reality

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Abstract:--

Graphics has changed the way we consume data. Earlier, most of the data used to be in the form of text or audio, but today the data is close to the real world and computer graphics has played a major role in it. Applications of computer graphics has led to tectonic swing in the current times. Among them are augmented and virtual realities. Augmented and Virtual Reality offer many options that allow the user to make use of them in almost all the fields. The intention behind this review paper is to summarize the applications of Augmented and Virtual Reality in various fields.

Keywords:

Applications, Augmented Reality, Computer, Graphics, Virtual Reality, Virtualization.

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Industrial Internet of Things(IIoT): An Overview

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Abstract:--

Internet of Things is an advancing technology which is transforming the living. IoT is a network of embedded objects, hardware components, software and internet. This network enables exchange and storage of data. This advancement has made many complex tasks seem simpler. Most of the areas today are subjugated by IoT and this automation is resulting in less human intervention. Automation helps in continuous monitoring and also can be used in critical conditions where it is hard for humans to stay. The review paper focuses on the overall advances and applications of IoT in various fields and later moves on to explain the automated surveillance system used in industries for monitoring purpose (IIoT).

Keywords:

Automation, Applications, IoT, IIoT, Industry.

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Document Sharing Android Project

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Dr. H Girisha., Professor, Dept. of Computer Science & Engineering, RYMEC, Bellary.

Abstract:--

The project is to share the data between the college faculty and the students. The system consists of individual login to faculty and students. The faculty can upload the notifications, e-notes, syllabus, timetable and any other important information through the faculty login. This project will work on android operating system and will be a great system for sharing the information between the documents. Student Faculty Document Sharing Android Project is based upon java technology. This project is designed for the sake of reducing efforts between both the students and the faculty.

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Smart Health Monitoring System Using IoT

K.Vaishnavi., MTech 4thsemDepartment of Computer Science and Engineering, Rao Bahadur Y Mahabaleswarappa Engineering College, Bellary, India.

Abstract:--

In the recent years health monitoring system is one of the innovative concepts that has been introduced in many of the developing countries. The framework is to help the people to get the proper treatment and diagnosis with all the advanced medical technologies in time. The IoT (internet of things) have been extensively used to interconnect the handy clinical assets and offer smart, reliable, and fine healthcare services to patients. It has been implemented by using different sort of sensors to monitor the vital signs in patients heartbeat conditions, temperature and humidity. Transmission of the information from the body sensors to the server is done by the WI-FI module where the data is stored in server the microcontroller is used to convert the data into readable signals. The doctor can view the patient's condition through laptop or through the android phones where Bluetooth is the transmitter. The main purpose of this paper is both patient and doctor can have the real time communication it is extremely helpful for chronically ill, elderly and even for bedridden patients in home.

Key words—

Microcontroller, WI-FI module, Bluetooth, LCD, heartbeat sensor, temperature sensor and humidity sensor.

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Determining Key Performance Indicators and envisioning results using Data Mining

Dr. V.B.Narsimha., Asst. Professor, Dept. Of Informatics, University College, Osmania University, Hyderabad.

Abstract:--

Information Systems or databases holds enormous amounts of information/data which can be used for mining to extract the effective patterns which can be further used in making better decisions in business, healthcare, banking and other applications. During this research we tend to build a model which predicts the performance of a Student in a Programming Language named 'Python' based on the different factors like the high school marks, parent's education, nature of environment, faculty approach, difficulty level of subject, etc. During the research, we have applied different feature selection techniques using algorithms like Naive Bayes and Decision Tree and found that Naive Bayes have built a prediction model with accuracy of 82.4%. This model helps to understand about the students who may fail which in turn give a sign to faculty to focus on those students to take active measures in improving their performance.

Keywords

Data Mining, Prediction, Accuracy, KPI, Key Performance Indicators, Classification, Decision Tree Induction

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Text Summarization of data by using the Recursive Iteration Technique

Vijayalaxmi M H., PG Scholar, Dept of Computer Science and Engineering, Rao Bahadur Y. Mahabaleswarappa Engineering College Bellary

Rajeshwari R P., Assistant Professor of Computer Science and Engineering, Rao Bahadur Y. Mahabaleswarappa Engineering College Bellary

Abstract:--

Neural arrangement to-grouping models have given a reasonable new way to deal with abstractive content synopsis (which means they are not limited to just choosing what's more, reworking sections from the first content). Be that as it may, these models have two deficiencies: they are at risk to imitate accurate points of interest erroneously, and they tend to rehash themselves. In this work we propose a Recursive iteration technique in which accuracy of the summarization of the data can be increased. By applying the multiple level of summarization without missing of any important data present in the document the results will be achieved. Here we can apply our models in the news articles which need to be summarized.

Key words :

Data, Models, Iteration, Technique, Summarization

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NetSpam: a Network-based Spam Detection

Prathyusha.k., Rao Bahadur Y. Mahabaleswarappa Engineering College Bellary

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Nagaraj.M., Rao Bahadur Y. Mahabaleswarappa Engineering College Bellary

Hoogar R.P., Rao Bahadur Y. Mahabaleswarappa Engineering College Bellary

Abstract:--

At present days people are interacted on the information present on social media and their decisions. There is a chances of leaving a reviews on a social media whether is positive or negative by spammers on particular product,organization and their services .by identifying these spammers and spams inorder to know the reviews in the social media ,we are introducing a novel framework called Netspam which utilizes spam features for modeling review datasets as heterogeneous information networks to map spam detection procedure into a classification problem in such networks.

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Design and Development of Wireless Sensor Node for Anti-Poaching of Valuable Trees

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Sridevi malipatil, Associate Professor, Dept. of Computer Science & Engineering, RYMEC, Bellary.

Abstract:--

sensor for the forest department using For many days we are reading in the newspapers about smuggling of trees like sandalwood, 'sag wan' etc. In many states of India, like the jungles of Karnataka and Tamilnadu notorious smuggler "virrappan" did the smuggling of such trees in the past years. In order to overcome this smuggling of trees we use wireless sensor network (WSN) technology which is a modernistic addition in the field of radio network. In this case we use MEMS technology to monitor these kinds of peculiar trees and also use of vibration renewable energy source of solar energy. Here we can also save the forests and wild animals from forest fire.

Keywords:-

WSN, MEMS accelerometer.

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Privacy Based Two Tales over Online Social Networks

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Asma., Dept of CSE,RYMEC

Husna., Dept of CSE,RYMEC

Dr.Anuradha.S.G., Asst prof, Dept of CSE,RYMEC

Abstract:--

Privacy is very important in online social networks as a lot of critical information is being exchanged over the network. So there is a need for security in such applications. Thus this application adds a level of security by using encryption technique (AES-Advanced Encryption Standard) to ensure that the data is not readable over the network and this application also includes privacy settings to specify what should be accessed by whom. The system takes the password while the user registers and encrypts it using AES algorithm and stores in the database. When the user tries to log in into the system, the system fetches the password of the user Id specified and decrypts it using AES and if the password matches, the system allows access to the application. Privacy setting is also provided by the system which specifies which part of the profile should be accessed by who.

Keywords: --

online social networks, privacy, AES, privacy settings, Social privacy

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VoCoBo- Voice Control Bot

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Abstract:--

This system is mainly designed to our customers such as kids, physically challenged and blind people. Our project uses voice recognition concepts to take commands from the user and based on the commands given, using it's A.I. it follows the orders given by the user. Also, whilst completing the task given by the user it automatically detects and avoid obstacles in its path. In addition to this an additional feature we have implemented is the smart weather forecast system. So, customers will get an all-round, well featured, efficient in use and kid friendly bot. This system is based on IoT technology.

Keywords:

A.I – Artificial Intelligence, Vocobo-Voice Control Bot, IoT-Internet of Things, ESP-Electronic stability program, EPE- Electrical and Power engineering, SPCC-Signal Processing, Computing and Control, DHT Sensor –Data Humidity and Temperature sensor

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Smart Transportation

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Divya Joshi., Department of CSE, RYMEC,Ballari.

Madhuri Reddy., Department of CSE, RYMEC,Ballari.

Dr Anuradha S G., Associate professor, Department of CSE, RYMEC,Ballari.

Abstract:--

Over the past decade, Intelligent Transportation Systems (ITS) are developed and deployed in order to improve transportation safety and mobility, minimizes environmental impact, promotes sustainable transportation development and enhances productivity. ITS combines high technology and advances in information systems, communication, sensors, controllers and advanced mathematical methods with the conventional world of transportation infrastructure.

Keywords:

Applications of IoT, transportation, ITS, electronic toll, security

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Real Time Elderly People Adl Monitoring

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Abstract:--

This paper proposes a real time human daily activity recognition using a single stationary camera. The system can recognize activities such as raising or waving hand(s), jumping and walking. Actions are described by a feature vector comprising both trajectory information and a set of local motion descriptors. Feature extraction is done using LBP TOP method. Action recognition is achieved via probabilistic search of image feature databases representing previously seen actions. For activity detection and tracking, we use motion detection algorithms such as frame differencing and feature correlation and finally classification is by kNN classifier. Activity recognition can be exploited to great social benefits, especially in real-life, human centric applications such as elder care and healthcare. Recognizing complex activities remains a challenging and active area of research and the nature of human activities poses different challenges.

Keywords:-

Elderly people Recognition, ADL monitoring, Human activities, LBP TOP.

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Customer behaviour prediction using stock market

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K C Preeti., RYMEC Engg College, Ballari.

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Anusha K., RYMEC Engg College, Ballari.

Kavyashree., RYMEC Engg College, Ballari.

Abstract:--

Customer behaviour model seeks common behaviour among particular groups and customers in order to predict how a similar customer will behave under similar circumstances. This technology is designed to help the investor discover hidden pattern from the historic data that have probable predictive capability in their investment decisions. It has some information that is publically available that is at the past and there are some predictive relationship to the future stock. There are some methods of analyzing stock were combined to predict the price that would increase or decrease. These methods were Typical price, Bollinger Bands, Relative strength index, CMI and Moving average. There are many algorithms used such as Boruta algorithm, Naïve Bayes , System vector machine, Artificial neural network.

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Message Queuing Telemetry Transport (MQTT)

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Abstract:--

Internet of things refers to uniquely identifiable objects and the representation of these physical objects in a virtual form in an internet like structure. The number of things that get added to the network are increasing day by day. These connected devices are bound to reach 50 billion by 2020. MQTT or Message Queue Telemetry Transport is an internet of things protocol for machine to machine communication. The main aim of designing this paper is to introduce the fundamental information about MQTT protocol. It describes about the overview of MQTT from beginning of the history till present development.

Keywords:

MQTT, IoT, COAP, M2M

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Gesture Recognition Using a Proximity (Touch less) Sensor and Haptic Technology

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Sunitha S., Asst. Prof Dept. of Computer science and Engineering, RYM Engineering College, Ballari, India

Abstract:--

Touchless sensor technology is the newly evolved generation of touch screen technology, in fact these are the once which can be called as sensibly smart devices. Gesture recognition sensors come from the same family of touch screen but these are the successors of Human Machine Interface (HMI). In the growing IT field it is much more important that the devices or gadgets we work with are not only smart but also sensible. Gesture recognition is identifying the motion of an object through its touchless sensors and this movement of the body is processed using a micro controller and the corresponding response is given depending on the motion of the body. As far as the applications of Gesture recognition touch less sensors are concerned, they can be implemented in almost every field.

Keywords-

Touchless Sensors, touch screen, gesture recognition, Human Machine Interface(HMI), microcontroller, Proximity sensors.

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Smart Irrigation Control System Using AT89S52 Microcontroller

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Sapna B Kulkarni., Associate professor Dept. of CSE Dept. of CSE, RYMEC, Bellary, Karnataka (India)

Abstract:--

This paper focuses on a smart irrigation control system. The main objective of this project is to develop an irrigation system using AT89S52 microcontroller with internet, controlled by any android smart phone. Basically this project avoids continuous monitoring of farmer to water supply. The most proper advantages are to avoid the wastage of water, human intervention, implementation with low cost. As we know in 21st Century many automation technologies invented in many fields for our easy life style. As same as that in irrigation also inventing the smart and easiest technology called smart irrigation control system.

Keywords:--

sensors; irrigation; environmental parameters; water

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Automated GYM : Virtual Gym Management System

Komal Untwal., RYMEC, Bellary, Karnataka (India)

Sonali Jathar., RYMEC, Bellary, Karnataka (India)

Manjiri Girnale., RYMEC, Bellary, Karnataka (India)

Prince Anand., RYMEC, Bellary, Karnataka (India)

Abstract:--

Accommodating today's demanding lifestyle, people have to be fit & healthy. A daily workout routine is essential for a healthy life; still, some people take this fact for granted that they need to have some physical activity daily. Even if some people are willing to work out, they are either deprived of motivation or don't have adequate guidance, so we develop a system "AutomatedGYM:Virtual Gym Management" for a gymnasium in which user can enroll to the system via online and he can access his workout or trainer and diet or consultancy at the best time and best place for their schedule. For user interaction with trainer or consultancy, system has provided with video chat & text chat. After specific period i.e. when certain amount of data gets enter into database, system will automatically recommend user for workout and diet by giving him report through his profile. User have to give feedback about gym and about its working as it will be helpful for management team to modify system if required.

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Literature Survey on Fractals

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Abstract:--

A Fractal is a geometric figure where each part of it has the same characteristics .They are patterns that keep repeating and any pattern that keeps repeating over and over again form of fractal .There are natural fractals as well as computer generated fractals. The intention of this review paper is to explain the existing types of fractals both natural and artificial occurring, their characteristics and applications of fractals in our daily lives.

Keywords:

Fractals, self-similarity patterns, dimensions, geometric figures, initiator, generator.

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Computer Graphics in Movie Making

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Padmini S., Department of CSE, RYMEC, Ballari .

Sirisha P., Department of CSE, RYMEC, Ballari .

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Abstract:--

Entertainment has the higher appeal when compared to other areas .Computer Graphics is the reason behind this popularity .Earlier movies used to be low-key in terms of graphics, but after adapting to CGI, cinema has changed completely .The movies that we watch today are testimony to the revolution of graphics in movie industry .This paper reviews the application of graphics in entertainment industry.

Key words:

New era of graphics, Animation, Graphics, Visual effects, composting

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Approaches for Identification and Classification of Diabetic Retinopathy: A Survey

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Abstract:--

In Today's world many people are affected with Diabetic mellitus due to metabolic disorders. Lack of insulin in the body leads to increase in Glucose levels in Blood. High sugar levels can cause damage to major organs such as Kidney, Heart and eye. In Eye, high sugar levels leads to leakage of fluid from Blood vessels thereby causing changes in retina. This is called Diabetic Retinopathy. Proper identifying and classification of Diabetic Retinopathy is very crucial to prevent complete loss of vision. This paper presents the various approaches and methods proposed for Identifying and classifying the Diabetic Retinopathy

Keywords: --

Diabetic Retinopathy, pre-processing , feature extraction classification

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Farmer's Intel

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Sampath Kumar R., Department of CSE, RYMEC, Ballari

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Venkatesh., Department of CSE, RYMEC, Ballari

Manjunath., Department of CSE, RYMEC, Ballari

Abstract:--

The aim of the system is to develop a system (Application), to help in the field of agriculture. The main objective of this app is to establish interaction between many formers, formers – students or any other agri experts those are interested in solving formers problems. This site acts as best media for direct communication between former and experts.

Index Terms—

Applications, Farmer's, Portal, Solution, Agriculture.

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Study on Evolution of Robotic Generation

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Abstract:--

This paper gives detailed information about how Robot can replace the human being, all most in every field. This paper will also give details technical and non-technical information about how Robots can work as human. Even how it will compete with human. This technology deals with automated machines that can take the place of human's in dangerous environment or manufacturing processes or cognition. In future a Robot can be implanted in such a way that one day it will be the most powerful and smarter creature in the world as one robot can replace ten human beings

KeyWords:

A.I –artificial intelligence, NN- neural network, CNN- conversation neuron network, RNN- recurrent neural network,machine learning, NPL-natural language processing, Robot,ROS-robot operating system, symbolic learning,image processing Robot, deep learning.

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Accident Detection and Anti-Theft for Automobiles Using Bump Sensor, Gps and Gsm Modules

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Abstract:--

The objective of this paper is to detect the accident of an automobile and theft of an automobile. The accident and anti-theft module is integrated in the automobile where the module detects the occurrence of accident or theft of vehicle. This reduces the loss of life or theft of vehicle is detected by android application. The accelerometer sensor and bump sensor detects the accident. The theft of the vehicle is detected by vehicle tracker android application which is provided to the owner of vehicle. If an automobile is met with an accident then the sensors will be activated and the location of the accident will be sent to emergency stations. If the vehicle has been stolen, then the owner of the vehicle will receive the SMS and owner can stop the vehicle.

Keywords:

Accident detection, anti-theft, accelerometer sensor, Panic Switch, GPS and GSM, Bump sensor, automobile.

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A Survey on Association Rule Mining using Apriori Algorithm

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Abstract:--

Data mining refers to the process of extracting useful and interesting knowledge from large set of data. There are many aspects like clustering techniques, classification, association rule mining etc. Among these, association rule mining is the important aspect for data mining. The algorithm's performance directly effects the efficiency , integrity and effectiveness of ultimate data mining results. Apriori algorithm is one of the influential algorithm for mining association rules. The basic idea of this Apriori algorithm is to identify all the frequent itemsets.

Keywords:

Apriori algorithm, association rule

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Applications of Internet of Things

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Abstract:--

IOT (Internet of Things) is defined as connecting things to the internet and that connections are used to provide some kind of useful remote monitoring or control to those things. In the past decade, over a billion sensors are connected to various devices providing continuous monitoring. Sensors and actuators embedded in physical objects are connected through wireless networks. The intention of the review paper is to highlight the significance of IOT in our daily lives and the impact of it on our surroundings.

Keywords:

IOT, Smart cities, Smart farming, Agriculture

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Content Management

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Dr. Anuradha S G., Assistant Professor, Department of Computer Science and Engineering, RYMEC, Ballari, India.

Abstract:--

Storing and maintaining data is of higher importance these days. Manual handling of data becomes a tedious task, hence this paper proposes a system where in allocation of project and its related task can be done through a dedicated website. This website will let the end-user to allocate guides, create groups, issue circulars and also lets the staff to update marks on-line without any hassle.

keywords:

Project Management, Automation, PHP, CSS, HTML, JavaScript, PHP-MyAdmin.

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VV' Sangha's Online Polling System Using Web Based Android Technology

Varsha Kurpad., Department of Computer Science & Engineering RYMEC Ballari.

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Swetha L., Department of Computer Science & Engineering RYMEC Ballari.

Shiva Prasad KM., Assistant Professor, Department of Computer Science & Engineering RYMEC Ballari.

Abstract:--

We recognize that the manual electoral system that is generally utilized in order to elect someone for a selected designation varied co-operative societies. This method is time intense, share of option could also be reduced and its paper orientating method. So as to beat this issues and to form the voters get benefited by option the priority person by sitting in their place, we tend to plan to develop and come through the electoral system exploitation humanoid application of VV Sangha Society.

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GSM Embedded Agriculture With Plowing, Seeding, Grass Cutting Powered by Solar Energy Using Android Application.

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Sunitha.S., Assistant Professor, Department of computer science and engineering, RYMEC, Ballari, Visvesvaraya Technological University.

Abstract:--

This paper is based on IOT (Internet of Things). Nowadays a Variety of tasks are Based on IOT. This is a new trend in Technology. The main aim of this paper is to reduce the work and energy of the farmer. In India, nearly 70% people are dependent upon agriculture. So the agriculture system in India should be advanced to reduce the efforts of farmers. In agriculture field many operations are performed like seeding, weeding, waste plant cutting, plowing etc. and the very basic operation is seeding, plowing, grass cutting and the present method is very difficult to perform all operations and this method need heavy human resources. The drawbacks of the existing system will be removed successfully in this automatic machine.

Kew Words:

Microcontroller (Renesas 64 bit), GSM modem, Ultrasonic sensor, L293, 4 wheels, Relay.

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Text Analytics: the convergence of Big Data and Artificial Intelligence

syed ameerudin., RYMEC, Ballari, Visvesvaraya Technological University.

Abstract:--

The analysis of the text content in emails, blogs, tweets, forums and other forms of textual communication constitutes what we call text analytics. Text analytics is applicable to most industries: it can help analyze millions of emails; you can analyze customers' comments and questions in forums; you can perform sentiment analysis using text analytics by measuring positive or negative perceptions of a company, brand, or product. Text Analytics has also been called text mining, and is a subcategory of the Natural Language Processing (NLP) field, which is one of the founding branches of Artificial Intelligence, back in the 1950s, when an interest in understanding text originally developed. Currently Text Analytics is often considered as the next step in Big Data analysis. Text Analytics has a number of subdivisions: Information Extraction, Named Entity Recognition, Semantic Web annotated domain's representation, and many more. Several techniques are currently used and some of them have gained a lot of attention, such as Machine Learning, to show a semisupervised enhancement of systems, but they also present a number of limitations which make them not always the only or the best choice. We conclude with current and near future applications of Text Analytics..

Keywords :--

Big Data Analysis, Information Extraction, Text Analytics

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VC HUB

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Abstract:--

A fully autonomous home is going to be the future. Everyone want that the complete control such as switching on/off the lights, fans, televisions and other appliances through one device. This paper presents a novel solution that makes this future a bit nearer. Voice controlled automation, as well as a universal remote control application on an Android platform, has been presented. In this paper, the voice input has been captured by the android and will be sent to the Arduino Uno. Bluetooth module in Arduino Uno received the signal and processed the input signal to control the light and fan. The proposed system intended to control electrical appliances with relatively user-friendly interface and ease of installation.

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Overview of Honeypot Technology

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Abstract:--

Honeypot is a computer security system that includes files, directories in it just like a real computer. The target of honeypot is to attract hackers to fall into it to watch their activities. It is a fake system that looks like a real system. They differ from other security systems since the aim of honeypot is not to find one solution to a particular problem, instead they are applicable for various security problems and finding several approaches for them.

Keywords:--

Honeypot, Network, Security, Attackers.

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Control of Wheel Chair and Home Automation Using Mobile Application

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Chaitna K., Student, E&CE Dept., RYMEC, Ballari.

Abstract:--

It is difficult for the people who are aged and having physical disabilities to move about and to operate house hold appliances without any external help. The proposed project based on Bluetooth technology is targeted for above mentioned people. It enables them to move independently from one place to another place without any external aid and at the same time it also helps them to operate house hold electric appliances using wireless communication. The wide spread prevailing loss of limbs is day-to-day scenario due to wars, accidents, age and health problems [2]. The proposed system is prototype wheel chair that can be commanded by patient itself. The main advantage is to design a wheelchair that will be operated using wireless blue technology and will be very easy to operate it with no physical efforts [1]. This paper analysis the motion technology through android mobile application with an inbuilt Bluetooth module. The Signals from the Bluetooth module are controlled by the microcontroller.

Key words:

Android mobile application, Bluetooth module HC-05, Wheelchair, LPC2148 Microcontroller, DC Motor.

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Blind Guider – A Smart Blind Stick

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Abstract:--

To provide innovative idea in order to enhance the leaving of visually disabled. Just to add more independent action in their lives. The visual identifier helps to detect and identify the obstacle via Ultrasonic sensors and will provide a voice message, distance between the person and an obstacle, where the distance is calculated through the ultrasonic sensor. Additive feature to the previous version which indicated with vibration is the distance calculation and the voice. Thus making movement process much easier. This is a kind of venture which will totally change the way of living of a blind people. It will provide awareness of every single thing around them. The innovative project will guide visually disabled while crossing roads and daily activities nearby areas visiting new places with ease as normal people. Sensor will alert about the presence of obstacles and provide the exact location through GPS as well. Also the IR sensor are used to detect change in level for detection of stairs.

Key words:

Visually Impaired, Ultrasonic sensor, IR sensor, Raspberry Pi.

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A Survey on the issues of Refactoring

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Abstract:--

In this paper, a tremendous attitude of research towards refactoring the software is presented. This paper presents the areas where refactoring can be applied. The Scope of refactoring, how to refactor, when to refactor, impact of refactoring on a quality of software, different methods used, basic principles in refactoring software artifacts and the related work which needs to improve are presented. This paves the way for improvement, giving rise to many more research fields.

Key words:

Refactoring, software, re-engineering, formal methods.

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Design and Implementation of Student Feedback System at Education System

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Abstract:--

The main aim and objective was to plan and program web application for any domain. We have to apply the best software engineering practice for web application. As a web application developer, I was asked to develop an “Student Feedback System” using PHP and MySQL. This system is generally used by four kinds of users Student, Faculty, Head of departments, Admin. The application should evaluate the answers given by the students based on the feedback which will be given by the range. 1 – 10 and grade has to be generated to all the staff members of a particular department. These feedback report was checked by the HOD’s. He can view overall grades and view the grades obtained to the lecturers and give this report to the principal and he can give counselling to the college staff. “By using this online system, we make it better and quick way.”

Key words:

Feedback, student, student feedback system.

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A Study of wireless sensor networks and its revolutionary changes.

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Dr Sai Madhavi D., Associate Professor, CSE Dept, RYMEC, Ballari

Muneeshwara., Assistant Professor CSE Dept, BMSIT, Bengaluru.

Abstract:--

Many evolutionary changes are brought into WSN in the past few years, may be due to advancement in networking, semiconductor technologies giving a scope for low cost deployment as well as maintenance with long lasting life, giving a scope for WSN to be a part of many applications. In future WSN can be expected to grab the role of standardized mix of hardware and software giving solutions to many new upcoming applications. The embedded designers must be able to make proper choices in selecting transducer, battery technologies, frequency, networking protocols, semiconductor design, and sensor/actuator technology including energy storage.

Key words:

Emerging technologies, Integration, IOT, WSN.

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A Survey on Association Rule Mining using Apriori Algorithm.

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Abstract:--

Data mining refers to the process of extracting useful and interesting knowledge from large set of data. There are many aspects like clustering techniques, classification, association rule mining etc. Among these, association rule mining is the important aspect for data mining. The algorithm's performance directly effects the efficiency , integrity and effectiveness of ultimate data mining results. Apriori algorithm is one of the influential algorithm for mining association rules. The basic idea of this Apriori algorithm is to identify all the frequent itemsets.

Key words:

Apriori algorithm, association rule

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Fog Computing: A platform for Internet of Things (IOT)

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Dr.Anuradha S G., Associate Professor, Dept of Computer Science, RYMEC, Ballari, India

Abstract:--

Fog computing extends the cloud computing paradigm to the edge of the network thus enabling a new breed of applications and services. Fog computing is the appropriate platform for a number of critical Internet of Things namely connected vehicle, smart grid, smart cities, wireless sensors and actuators networks(WSANs).

Key words:

Fog computing ,cloud computing, IOT,WSAN.

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Crowd Analysis Using Computer Vision Techniques

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Abstract:--

Crowd analysis involves the interpretation of data gained studying the natural movement of groups or objects. Crowd analysis presents a survey using computer vision techniques covering different aspects such as people tracking, crowd density estimation, event detection, validation, and simulation. It also has wide range of applications such as crowd management, public space design, virtual environment, visual surveillance and intelligent environment. The major challenge in crowd analysis is the generation of ground truthed images or video sequences, which can be used either for training or validation purposes.

Key words:

Crowd analysis, tracking, crowd density, crowd synthesis.

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Fog Computing a Paradigm: Scenarios and Security Issues

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Abstract:--

Fog computing is a paradigm that extends cloud computing and services to the edge of the network. Fog computing provides data, storage, and application services to end users. In Fog computing user data is outsourced and user's control over data is handed over to fog node, which introduces same security threats as it is in cloud computing. Fog computing is well suited for real time analytics and big data. Security incidents regarding fog computing are posed by the hostile attack and man-in-the-middle attacks.

Key words:

Fog computing, Security issues, IOT and Cloud computing, MD5.

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Object detection and tracking for computer-vision applications

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Abstract:--

Object tracking is to estimate locations of target in an image sequence, it is the most challenging aspect in the computer vision applications with difficulties that arise due to intrinsic, extrinsic factors like deformation, camera motion, motion blur. Object tracking plays vital role in human-computer interaction, surveillance, robotics and overcomes practical problems of disturbance and effective noise. Object detection is the task of identifying the physical movement of an object in a given region. It is challenging role to detect the shape of the object as dynamic scene changes accordingly.

Key words:

object detection, tracking, surveillance.

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Evolving Machine Intelligence toward tomorrow's Intelligent Network Traffic Control Systems

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Abstract:--

An effective traffic signal management project that allows for managing 4 way traffic signal management system. The system consists of 4 signals corresponding to each road. We here propose a density based traffic signal scheduling algorithm. The system is designed to manage traffic signal timings based on the density of traffic on its corresponding road. The system represents the traffic strength of a road graphically using traffic judgments. By measuring the traffic lined up on a particular road the signal timings are adjusted to let that particular way clear out and then the next populated one. The entire system works according to an algorithm that allows for smooth and efficient traffic flow across all four ways. It also consists of an emergency override that allows traffic authorities to remotely let go a particular signal in case an ambulance or important vehicle arrives on that way.

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Enhancing Video Deblurring using Efficient Fourier Aggregation

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Abstract:--

Video Deblurring is a process of removing blur from all the video frames and achieving the required level of smoothness. Numerous recent approaches attempt to remove image blur due to camera shake, either with one or multiple input images, by explicitly solving an inverse and inherently ill-posed deconvolution problem. An efficient video deblurring system to handle the blurs due to shaky camera and complex motion blurs due to moving objects has been proposed. The proposed algorithm is strikingly simple: it performs a weighted average in the Fourier domain, with weights depending on the Fourier spectrum magnitude. The method can be seen as a generalization of the align and average procedure, with a weighted average, motivated by hand-shake physiology and theoretically supported, taking place in the Fourier domain. The method's rationale is that camera shake has a random nature, and therefore, each image in the burst is generally blurred differently. The proposed system has effectively deblurred the video and results showed that the reconstructed video is sharper and less noisy than the original ones. The proposed Fourier Burst Accumulation algorithm produced similar or better results than the state-of-the-art multi-image deconvolution while being significantly faster and with lower memory footprint. The method is robust to moving objects as it acquired the consistent registration scheme.

Index Terms—

deblurring, motion blurs, camera shake

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Accelerometer Based Hand Gesture Controlled Robot

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Mary Sowmya A., ECE Dept., RYMEC, Ballari

Sowparnika J P., ECE Dept., RYMEC, Ballari

Sandhya H., ECE Dept., RYMEC, Ballari

Abstract:--

Generally, robots are programmed to perform specific tasks which humans cannot. To increase the use of robots where conditions are not certain such as firefighting or rescue operations, robots can be made which follow the instruction of human operator and perform the task. In this way decisions are taken according to the working conditions by the operator and the task is performed by the robots. Thus, we can use these robots to perform those tasks that may be harmful for humans. This model describes about the gesture control robot which can be controlled by your normal hand gesture. It consists of mainly two parts, one is transmitter part and another is receiver part. The transmitter will transmit the signal according to the position of accelerometer and your hand gesture and the receiver will receive the signal and make the robot move in respective direction. Here, the program is designed by using Arduino IDE.

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Designing a Secure Exam Management System (SEMS) for M-Learning Environment

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Gopal Y.V., B.E. 8th sem, Department of computer science and engineering,RYMEC, Ballari, Visvesvaraya Technological University

Abstract:--

The Secuere exam management system is an Mobile Learning process.However, enforcing exam security in open environments where each student has his/her own mobile/tablet device connected to a Wi-Fi network through which it is further connected to the Internet can be one of the most challenging tasks. By using Internet Or WiFi Connections students can easily exchange information during exam time.In m-learning environments where the Students mobile/tablet devices that can be connected to a Internet browsing or e-book reading, as well as for the sake of exams. Using student's mobile devices as exam stations offers the advantage of low cost, more exam takers at the time, and no need for a wired network. Thus, a dynamic security policy is needed in this case with an appropriate enforcing mechanism.

Keywords—

e-learning, m-learning, Learning Management System (LMS), Access control, exam engine.

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Detecting Node Failures in Mobile Wireless Networks: A Probabilistic Approach

Dr.Sai Madhavi D., Associate Professor, Department of computer science and engineering,RYMEC, Ballari, Visvesvaraya Technological University

Sumalatha Gouda., PG Scholar, Dept Of Computer Science, M.Tech 4th Sem

Abstract:--

The Secure exam management system is an Mobile Learning process. However, enforcing exam security in open environments where each student has his/her own mobile/tablet device connected to a Wi-Fi network through which it is further connected to the Internet can be one of the most challenging tasks. By using Internet Or WiFi Connections students can easily exchange information during exam time. In m-learning environments where the Students mobile/tablet devices that can be connected to a Internet browsing or e-book reading, as well as for the sake of exams. Using student's mobile devices as exam stations offers the advantage of low cost, more exam takers at the time, and no need for a wired network. Thus, a dynamic security policy is needed in this case with an appropriate enforcing mechanism.

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