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On

Emerging Trends: Innovations and Challenges in IT

(29th and 30th June 2017)

Organized by

Bharati Vidyapeeth's

Institute of Management and Information Technology

Navi Mumbai

In Partnership with

Bharati Vidyapeeth's
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Table of Contents

About the Conference

Emerging Trends: Innovations & Challenges in IT 2017 have a profound influence on all the braces of computer application, computer science and management as well. New technologies are constantly emerging which are enabling application in various domains and services. National Conference on Emerging Trends: Innovations & Challenges in IT 2017 is organised by Bharati Vidyapeeth's Institute of Management and Information Technology, Navi Mumbai for the presentation of technological advancement and research in the field of theoretical, experimental and applied area. Best papers selected will be considered for publication in BVIMSR' s Journal of Management & Research ISSN: 0976-4739 listed in EBSCO & ProQuest. National Conference on Emerging Trends: Innovation and Challenges in IT 2017 is the premier forum for the presentation of new advances and research in the fields of IT. The conference will bring together academicians, leading researchers, engineers and scientists in the domain of interest in and around the country. Topics of interest for submission include, but not limited to:

- Agile Methodology
- Business Intelligence
- Business Process Reengineering & Management
- Cloud Computing
- Internet of Things
- Data Communication
- Data warehousing, Data mining & Big Data
- Distributed & Parallel Computing
- E-Governance, E-Commerce
- E-Business
- Embedded System
- Green Computing
- Image Processing & pattern recognition
- Management Information System
- Multimedia & Computer Graphics
- Natural Language Processing
- Robotics
- Security Science & Technology
- Soft computing (A.I., Neural Network & Fuzzy Logic)
- Software Engineering Cases
- Wireless Computing

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Co-convener	Dr. Jyoti Kharade

From the Convener's Desk

Dr. D Y Patil, Director BVIMIT, Navi Mumbai gave the welcome speech. The conference was inaugurated by Padmashree Dr. Sharad P Kale, Head, Technology Transfer and Collaboration Division , Bhabha Atomic Research Centre . Eminent speakers from the corporate were Mr. Vishal Mehta, Vice President, Center of Excellence Strategy & Architecture, Reliance Industries, Mr. Sampat Dawakhar ,Deputy Collector, Govt. of Maharashtra Dr. Anala Pandit, HOD , VJTI, Matunga Mumbai and Mr. Raj Varshney , Founder and CEO, e2Serv Technologies.

In the conference faculty and student members form various parts of Maharashtra participated and presenting their papers. A total of 37 papers were presented in the two day National Conference. The paper presentations were held in concurrent sessions shared by a experienced panel of experts like Dr Munir Sayyad, Reliance Technology Innovations ABS, Reliance Communication, Mr Rajnish Jha, Founder & CEO, RVR Eductech and Mr. Pramod Ambekar, Treasurer, CSI Mumbai. On concluding session of the conference Dr. D.Y.Patil , Director BVIMIT, gave the validatory address and distributed the certificates to the paper presenters.

All selected registered papers are published in the BVIMSR's National Journal as a special issue of papers. The authors can download the papers from www.bvimit.co.in.

We would like to thank all the above persons for sparing their valuable time to the Conference and helping us helping us making it a success. We take this golden opportunity to express our gratitude to all the researchers/experts for contribution their work.

Dr. Suhasini Vijaykumar Kottur
(Convenor, NCIT2017)

CONTENTS		
Sr. No.	**Title**	**Author**
1	Text Recognition from Image: A Review	Mr. Piyush Sanjay Jain Dr. Suhasini VijayKumar
2	Artificial Neural Network Techniques	Ms. Snehal Gire, Prof. Pooja Kadam
3	Web text based filtering – Support vector machines	Ms. Shubhangi Adate, Mr.Shankar M Patil
4	App Store Optimization, Tools & Review	Ms. Shipra Ahuja
5	Cloud of Things Integrating Internet of Things and cloud computing	Ms. Divya Save , Ms. Divya Sutar
6	OCULUS RIFT Bridging gap between Real world and Virtual world	Ms. Darshika Rajesh, Mr. Rupesh Bhoir Mr. Sanjeev Kamerkar
7	Comparative Study of Data Mining Tools Rattle and Rapid Miner	Ms. Madhuri Milind Anchekar, Mr. Sudhir Vasant Kesarkar
8	The study of uses of artificial intelligence in human resources management	Ms. Surabhi Gupta
9	Rush Balancing in Public Transport using FLIR Camera and Internet of Things	Mr. Sarvesh Bedekar, Mr. Ajinkya Dandekar, Mr. Rupesh Bhoir
10	Straight Through Processing – End to End Automation The road to high-quality payment services	Ms. Aditi Bhatade
11	Evolutionising AI Through EEG and Polygraph	Mr. Praniket Dere, Ms. Divya Premchandran
12	Designing the approach for Software Testers	Ms. Pratibha, Mr. Ganesh Waghmare
13	Intelligent Scholarship Disbursement Module for National Scholarship Portal (NSP)	Ms. Lifna C.S, Mr. Mohan Pawar
14	Design & Virtual Implementation of Savvy Home Control framework Using Lab VIEW	Ms. Rasika G. Patil
15	Implementation of mini search engine	Ms. Deepali Kolekar, Ms. Dhanshree Bhadane , Dr. Jyoti Kharade
16	Security Issues of Cashless Transaction in India	Ms. Seeza Franklin Kandukuri
17	Big Data Revolution in Retail Industry	Ms. Suraj Mulani , Ms. Sudeshana Roy
18	Internet of Things and Its Security	Dr. Pooja Raundale, Ms. Nilisha Wandile
19	The Study of Whatsapp Messenger in Educational Domain with Reference to Thane District	Ms. Neha Ankush Dhole, Ms. Pratibha M. Deshmukh
20	3D Password Authentication	Mr. Harshil Kanakia, Mr.Praveen Singh , Ms. Pooja Soni

21	A systematic literature review on augmented reality	Ms. Pratiksha Singh, Mr. Omprakash Mandge
22	Ethical and Social issues in Indian IT Education.	Mr. Suraj Malhotra, Ms. Sonal Singh, Ms. Seeza Franklin
23	Automotive Vehicle: RFID based using Zigbee	Mr. Ashish Shinde , Ms. Nidhi Panghal
24	E-Prescription App Framework for Healthcare Sector	Mr. Akshay Page
25	Implementation of smart data in Market Research Strategies.	Mr. Dipesh Dattaram Dawande, Mr. Crasto Raymant Leo, Ms.Smitaraja s.Kapase
26	Educational Data Mining: A Critical Study	Ms. Priya Chandran , Ms. Shaikh Sanakhatun
27	Vision, Challenges and Security concern on Internet of Things (IoT): A Literature Review	Ms. Anushree Goud, Ms. Nidhi Panghal
28	New Horizon of Green Computing	Ms. Mayuri Dendge
27	4D Printing: Evolution and Future	Ms. Shraddha Varang, Ms. Sudeshana Roy
28	Change Detection in Slum Development	Ms. Ankita Vijaykumar Kottur
29	IOT Based Smart Shopping with Money Management	Mr. Prashant Naik , Dr. Suhasini VijayKumar
30	Digital Divide and Road Blocks for Digitization in Rural India	Dr. Kamini Khanna, Prof. Veena Chavan
31	Skepticism about Digitalization in Indian Banking Industry: Past and Present	Prof. Rajni Mathur Prof. Vikrant Gharat
32	Cloud Computing and Migration	Ms. Swati Pralhad Sandanshiv
33	Arduino Based Smart Electronic Equipment Control System: For Meliorate Differently Blessed People	Ms. Varsha Desai, Dr.R.D.Kumbhar
34	Use of Big Data in CSR – Incentives and Challenges	Dr. Purvi Pujari, Mr. Manish Pujari
35	Smart Secure Security on IOT	Ms. Pratibha Deshmukh, Mr.Shyam Patil
36	Boom Of Digital Wallet In Period Of Demonitization – With Reference To Paytm	Ms. Alka Dingra, Mr. Sameer Sonawane
37	An Analytical Study Of Executive Stress Management In Selected Industries Of Thane District	Dr.Anjali Kalse , Mrs.Saili Satyendra Narvekar

MEMORIES OF THE NATIONAL CONFERENCE

Introduction of The Conference

Inaugural Address by the Director Dr. D.Y. Patil

Address by the Chief Guest Dr. Sharad P Kale, Head,
Technology Transfer and Collaboration Division,
Bhabha Atomic Research Centre

Address by the Key Note Speaker
Mr. Vishal Mehta Vice President,
Center of Excellence Strategy & Architecture, Reliance Industries

Felicitation of the Chief Guest Dr. Sharad P Kale, Head, Technology Transfer
and Collaboration Division , Bhabha Atomic Research Centre by the Director Dr. D.Y.Patil

MEMORIES OF THE NATIONAL CONFERENCE

Felicitation of the Key Note Speaker
Mr. Vishal Mehta Vice President,
Center of Excellence Strategy & Architecture, Reliance Industries.

Address by the Guest of
Honor Ms. Ranjana Narawane,
Senior Director at Accenture

Felicitation of the Guest of Honor Ranjana Narawane,
by the Convener Dr. Suhasini Vijaykumar

Address by the Key Note Speaker Mr. Sampat Dawakhar,
Deputy Collector, Govt. of Maharashtra

Felicitation of the Key Note Speaker Mr. Sampat Dawakhar
by the Director Dr. D.Y.Patil

MEMORIES OF THE NATIONAL CONFERENCE

Address by the Honorary Chair Mr Pramod Ambekar,
Treasurer, CSI Mumbai

Felicitation of the Honorary Chair
Mr Pramod Ambekar by Prof. Uttara Athawale

Felicitation of the Honorary Chair Mr. Rajnish Jha,
Founder & CEO, RVR Eductech by Prof. Zahir Mullani

Address by the Key Note Speaker Mr. Raj Varshney,
Founder and CEO, e2Serv Technologies.

Felicitation of the Key Note Speaker Mr. Raj Varshney
by the convernor Dr. Suhasini Vijaykumar

MEMORIES OF THE NATIONAL CONFERENCE

Address by the Key Note Speaker
Dr. Anala Pandit HOD , VJTI,

Felicitation of the Key Note Speaker
Dr. Anala Pandit by the Co convener Dr. Jyoti Kharade

Address by the Honoray Chair Dr. Muni Sayyed
Reliance Technology Innovations ABS,
Reliance Communication

Felicitation of the Honoray Chair
Dr. Muni Sayyed by the Convenor
Dr. Suhasini Vijaykumar

Paper Presentations

Valedictory Session

Text Recognition from Image: A Review

Piyush Sanjay Jain **Dr. Suhasini Vijaykumar**

Abstract:

Text recognition from image is a challenging task that has received a huge amount of attention. Text extraction is a research area which attempts to develop a computer system with the ability to automatically read the text from images. Text present in an image contains useful information. Extraction of this information involves detection, localization, tracking, extraction, enhancement, and recognition text from a given image. These days there is a huge demand to store information from paper document to electronic form, for example digital library. The simple process is to scan the paper document and store it in a computer storage device. But to reuse this information is very difficult because scanned paper was stored in an image format so if we try to find out some keywords from the document is not possible. The challenge involved in this is to unable to recognize the text from an image file. Thus there is a need of character recognition mechanism to store the image content in a proper electronic document which will allow us to read the document with vary ease and we can able to search the keywords or characters line by line or word by word. In this research paper we have analyzed different method for text recognition from images. The main objective is of this paper is to summarize the well-known method of character recognition for better understanding.

Artificial Neural Network Techniques

Snehal Gire [1] **Prof. Pooja Kadam [2]**

Abstract:

An Artificial Neural Network (ANN) is computational architecture that is encouraged by the human nervous system. Artificial Neural Networks (ANN) is used for problems where the algorithmic and symbolic approaches are not well suited. The objective of the neural network is to transform the inputs into meaningful outputs. There are many researches which show that brain stores information as pattern. This paper gives a review of the artificial neural network and analyses the techniques in terms of performance.

Web text based filtering – Support vector machines

Shubhangi Adate[1] **Shankar M Patil[2]**

Abstract:

We are all aware of internet and its popularity in this modern world. But many websites are very harmful for our internet community (i.ePornographic sites) and they are spreading like virus in internet. So lots of problem created. the Internet was typically used by a small number of people who were curious about computers, or those in jobs that required the level of communication provided by the Internet. This paper presents a new framework on web Interaction Content Filtering and Security. Due to this Content-Based Web filtering has become an important tool to detect this kind of sites and to filter this kind of inappropriate information on the web.There are two types of techniques :-text filtering techniques and image filtering techniques. here we used only text filtering technique. For web-security, IPv6 having good features from security perspective, but the improvement in technology brings new challenges for web content filtering. One service provided by the Internet is the ability to access web pages. Due to the growth of traffic, the lack of central management on the Internet, and to prevent people from seeing offensive or inappropriate material on the internet, software has been developed to block communication with certain sites. This classification of software has been declared "Web Filters". Web Filters are designed to improve the security and productivity of a network, but as with anything else, it must be implemented correctly to work properly.

App Store Optimization, Tools & Review

Shipra Ahuja

Abstract:

The important goal of this paper is to provide an overview on the concepts of Appstore Search Optimization. Furthermore the growing emergence and importance of Appstore Search Optimization in the field of mobile development is broadly explained .It also marks out effective tools and techniques used to obtain prominent optimization results on the global level. Moreover I have concluded on the basis of comparison of the tools depending on various factors and parameters by representing it in a tabular manner.

Cloud of Things Integrating Internet of Things and cloud computing

Divya Save [1] **Divya Sutar** [2]

Abstract:

With the pattern going ahead in pervasive figuring, everything will be associated with the Internet and its information will be utilized for different dynamic purposes, making data from it, as well as, learning and even insight. Web of Things (IoT) winding up noticeably so unavoidable that it is getting to be noticeably essential to coordinate it with distributed computing on account of the measure of information IoT's could produce and their necessity to have the benefit of virtual assets usage and capacity limit, additionally, to make it conceivable to make more convenience from the information created by IoT's and create brilliant applications for the clients. This IoT and distributed computing mix is alluded to as Cloud of Things in this paper. IoT's and distributed computing incorporation is not that basic and bears some key issues. So that necessaries of combination and key issues alongside their particular potential arrangements have been highlighted in this paper.

Oculus Rift
Bridging gap between Real world and Virtual world

Darshika Rajesh [1] **Prof. Rupesh Bhoir** [2] **Sanjeev Kamerkarz** [3]

Abstract:

With the rapid technology growth and rising interests of people in computer generated movies and television shows, the need of interactive virtual environment has grown remarkably. This paper covers the importance of how virtual reality of Oculus Rift head-tracking can actually make the world more interactive in various other fields like defense, entertainment, education and training. It describes the virtual fact around them and defines the approach that Oculus Rift has to enhance the experience and push the boundaries of virtual reality environment. Oculus Rifts tracking has less latency than any other positional trackers that were used earlier. The goal is to define experience that would change how people perceive virtual reality. This paper defines the usage of Oculus Rift to bridge the gap between real world and virtual world.

Comparative Study of Data Mining Tools Rattle and Rapid Miner

Madhuri Milind Anchekar [1] **Sudhir Vasant Kesarkar [2]**

Abstract:

Incredible advancement in information technology has revolutionized our world. Indeed, we live in an information age. The information technology revolution has not only fundamentally changed our lifestyle but also brought a significant transformation in business world. The increasing interest in a particular field using electronics and technology has triggered the improvement in data accessing methodologies specifically data mining tools. Information spread across the globe can be easily drilled through using various data mining tools which reveal the hidden knowledge in them. Applications of data mining can be considered as a breakthrough for decision makers. Now the availability of various data mining tools generates the need of understanding aspects of these tools for making a beneficial choice among these tools according to the requirements. This paper gives the comparative analysis of two data mining tools and how they can be selected for prediction of the election results for a case study. The choice and selection of tools can be made easy by employing the study.

The Study of Uses of Artificial Intelligence In Human Resources Management

Surabhi Gupta

Abstract:

Technology has changed the business world many times over. In the Information Age, the advent of computers and the Internet has increased that impact significantly. Many businesses cannot even function without the use of computer technology. This impact is seen in nearly all areas of business, including human resources, where technology continues to have a significant impact on HR practices. The paper studies how Artificial Intelligence (AI) can help, when applied into various HR functions like hiring, training, taking performance reviews etc. The paper also puts light on the advantages and disadvantages of application of AIon the HRM.

Rush Balancing in Public Transport using FLIR Camera and Internet of Things

Sarvesh Bedekar [1] **Ajinkya Dandekar [2]** **Rupesh Bhoir [3]**

Abstract:

Urban public transportation has long transformed into the favored transportation choice for genuine metropolitan locales, for instance, New York, London, Mumbai, Delhi etc. This has put over the top load on the transportation frameworks. For the most part, the spread of this heap is uneven intra-transport and between transport also, subsequently creating gigantic measures of weight on couple of components of the framework. Internet of things interfaces sensors to the web and in this manner making accessible sensor information to the end- clients. In this work we present a IoT based solution to solve the issue of rush administration out in the public transport. The objective of work is to present an end to end system that will help balance the load/pressure on public transport by notifying end users about real time traffic/load/Rush, and allowing them to migrate accordingly to a non-rush mode of transport.

Straight Through Processing – End to End Automation The road to high-quality payment services

Aditi Bhatade

Abstract:

Straight Through Processing, commonly known as STP is a technological advancement used by organizations to process financial transactions without manual intervention. It is all about automation, right from the initiation of a transaction to its settlement. Machine-to-machine communication constitutes the core of STP; it eliminates the time delays and errors caused by manual processes. But STP for payment transactions still remains an issue due to the complex nature of a payment processing chain. The systems in payment infrastructure of most financial institutions involve manual interventions and latency at various stages before data can flow from one system to another till final settlement happens. This paper provides a concise overview of STP, namely to identify main drivers for financial institutions to adopt STP, need of STP in India, STP implementation and STP for payment transactions.

Evolutionising AI Through EEG and Polygraph

Praniket Dere [1] **Prof. Divya Premchandran [2]**

Abstract:

The paper describes about the accuracy that can be achieved in Artificial Intelligence through combination of two technologies: EEG and Polygraph. Both this technologies will play their individual roles and the produced result will then be merged to measure the accuracy, the main motto of this paper is to increase the accuracy rate in reading persons mind through technology.

Designing the approach for Software Testers

Ganesh M. Waghmare [1] **Prof. Pratibha Deshmukh [2]**

Abstract:

Software Testing is a process of checking completeness, correctness, security, reliability and whether its a quality product or not. Testing is a part of software development life cycle where it is most time consuming and costlier phase in the whole software development life cycle. There are several ways by which can do testing i.e manually or using Automation. Manual testing is a testing where all the testing is done by the manual tester who writes all the test cases manually for software application. Manual testing lacks in testing when there is a large number of test cases and it requires repetitive testing of the test suite. Automation testing is testing type where the testing is carried out using some automated testing tools where a automation tester has to write all the scripts to perform the automation testing. Automation testing is done using various tools like, WINRUNNER, QTP, SELENIUM etc. Automation testing saves lots of resources like manpower and money. This document represents how well we can use the software testing types i.e manual testing and automation testing. The pros and cons are also discussed for manual and automation testing in this paper.

Intelligent Scholarship Disbursement Module for National Scholarship Portal (NSP)

Lifna C.S [1] **Mohan Pawar** [2]

Abstract:

As a part of Digital India Initiative, Government of India provides various services to the citizens. National Scholarship Portal is one among them, which focus on ensuring quick process of Government Scholarships to the needy students. Through this portal, students can apply only for Government Scholarships. For private scholarship one needs to apply separately to the individual organization, online or offline. So, the needy students are in a dilemma in search for these Scholarship Organizations and their deadline. The objective of this paper is to propose an Intelligent Scholarship Disbursement Module into the current National Portal, by incorporating both Government and Private Scholarship Organizations. The proposed module automates the entire Scholarship Process using Aadhaar number by which the student registers with the Portal. The revamped Portal aims to relieve students from the financial insecurity which they experience during their studies and focus on studies.

Design & Virtual Implementation Of Savvy Home Control Framework Using Lab View

Rasika G. Patil

Abstract:

Savvy home is a house that utilizes information technology to monitor the environment, control the electric appliance and communicates with the outer world. Savvy home is a complicated technology but it is developing. A savvy home mechanization framework has been produced to naturally accomplish a few exercises performed often in day by day life to get more agreeable and less demanding life condition. An example house condition screen and control framework that is one branch of the Smart home is addressed in this paper. The framework depends on the Lab VIEW programming and can go about as a security monitor of the home. The framework can screen the temperature, lighting, fire and theft alert to ensures the family security. This paper presents the hardware implementation of a house automation using Lab VIEW. The approach combines hardware and software technologies. Lab VIEW results of the system have shown that it can be easily used for the smart home automation applications.

Implementation of mini search engine

Ms. Deepali Kolekar [1] **Ms. Dhanshree Bhadane[2]** **Dr. Jyoti Kharade [3]**

Abstract:

A simple web search engine will be helpful for indexing, searching and identifing items in a database that correspond to keywords or characters specified by the user, used especially for finding particular sites on the nternet. Components of search engine involves "crawlers" (a spider or Robert program to search through documents), "porter and stemmer" (program that remove stop words and brings the query in its basic form) and "indexer" (one which indexes the documents to cut short the duration of searching). Paper presents information retrieval techniques, especially web search engine technology and also implementation of these various components. A similar algorithms named as Okapi BM25 (BM stands for Best Matching) is a ranking function used by search engines to rank matching documents according to their relevance to a given search query. The mini search engine comprises of three classes crawler, searcher and neural network. Present reseach paper we use, improve and add new functionalities to the crawler and searcher classes due to indixing and crawl web pages and provide search function to the users and not in training neural network with user's feedback which requires log dataset.

Security Issues of Cashless Transaction in India

Prof Seeza Franklin Kandukuri

Abstract:

With the Indian governments new demonetization reforms which includes Indian government stand on two stated objective a) To Curb Black Money b) To Push a Cashless Economy. Since then there is massive drive towards the banking and financial sector in India. This massive drive activities like opening new account, online payments and receipt via a cashless medium, plastic cards etc. This paper analyses Security Concerns of Cashless transaction. We will be discussing the Modes of online transaction, security threats, pros and cons of cashless transaction, security measures to be taken etc.

Big Data Revolution in Retail Industry

Suraj Iqbal Mulani **Prof. Sudeshna Roy**

Abstract:

The term Big Data places a major role in various fields. It is a term used for large data sets having huge amount of raw data, which is more complex for analyzing and storing for further processing. Now a day's big data is mostly used in many of the organization or companies to improve their businesses. That's why big data is having so much of applications in various fields like hospitals, banking, manufacturing; retails etc. This paper presents the overview of the revolution of the big data and to do a critical study of the same in the retail industry.

Internet of Things and Its Security

Prof. Dr. Pooja Raundale [1] **Nilisha Wandile [2]**

Abstract:

Today Internet connects not only computers and mobile devices, but it also interconnects smart buildings, homes, and cities, as well as electrical grids, gas, and water networks, automobiles, airplanes, etc. It has given rise to the fourth industrial revolution (Industry 4.0), and it brings great benefits by connecting people, processes and data. However, we cannot neglect that now it has become a grave challenge in the world of IoT. As with any business asset, information systems hardware, software, networks, and data resources need to be protected and secured to ensure quality, performance, and beneficial use. Security management its accuracy, integrity and safety is critical and when these effective security measures are in place, the errors, frauds, and losses can be reduced. There are intentional and unintentional threats. Unintentional threats are considered to be human error, environmental hazards, and computer failures. Most people do not cause harm purposely. Intentional threats refer to purposeful actions resulting in the theft or damage of computer resources, equipment, and data. Intentional threats include viruses, denial of service attacks, sabotage, and destruction of computer resources and theft of data. Most intentional threats are viewed as computer crimes when executed.

The Study of Whatsapp Messenger in Educational Domain with Reference to Thane District

Neha Ankush Dhole, [1] **Prof. Pratibha M. Deshmukh** [2]

Abstract:

With the rapid development in the field of mobile technology, life has become super easy and convenient. Social media has emerged as elation and helps us to maintain and know updates from friends, relatives and collegues. As we know today we have various social messengers like LinkedIn, Face book, WhatsApp, Line, Yahoo, Hike, We Chat, Skype, Imo, BBM, Viber etc. which helps us to be in contact with the society or people. In past few years, WhatsApp has become most popular medium of interaction among the people as it is convenient to use. This app can be easily downloaded and works in various electronic items such as I-Phone, Blackberry, Android, windows phone and computers. This priceless exchange of text, image, video, audio message and calling has captured youths to use whatsapp. This Application is an important medium of social connectivity and has its own effects (Good or bad) upon theyouth or in the society. This study is an attempt to measure intensity of the usage of Whatsapp messenger among the youth of Thane District for educational purpose. In this study the researchers want to conduct a survey by using a questionnaire among the youth (students) so we can understand its impact on them. This empirical study has been conducted upon 150 people with a questionnaire, which was used as a tool of data collection for the survey. This study has revealed that being a medium of mass communication; it also has adverse impact on the life style and culture of youth especially in their studies. Youths are spending more time on these applications rather than spending quality time with their family members. Many youths are addicted to it and cannot abstain themselves from constantly chatting, replying and sharing of ideas or information, so it has become difficult to control it and needs psychotic help.

3D Password Authentication

Harshil Kanakia [1] **Praveen Singh** [2] **Pooja Soni** [3]

Abstract:

In this paper, we propose and evaluate our contribution which is a new scheme of authentication. This scheme is based on a virtual three-dimensional environment. Users navigate through the virtual environment and interact with items inside the virtual three-dimensional environment. The combination of all interactions, actions and inputs towards the items and towards the virtual three-dimensional environment constructs the user's 3D password. The 3D password combines most existing authentication schemes such as textual passwords, graphical passwords, and biometrics into one virtual three-dimensional environment. The 3D password's main application is the protection of critical resources and systems.

A Systematic Literature Review on Augmented reality

Pratiksha Singh, [1] **Prof.Om Prakash Mangde [2]**

Abstract:

Augmented reality (AR) is one of challenging technology in computer science. The algorithms that makes AR not only challenging but also trending in 21 century. With the rise of personal mobile devices capable of producing interesting augmented reality environments, the vast potential of AR has begun to be explored. It describes work performed in different application domains and explains the exiting issues encountered when building augmented reality applications considering the ergonomic and technical limitations of mobile devices. Future directions and areas requiring further research are introduced and discussed. Applications and ongoing research of Augmented Reality include various sectors like medical, military training, education, games and ecommerce. For example, in military, AR is used to display the augmented annotated information about hidden enemy units to the pilot. This paper tries to address how the Marker- based Augmented Reality with help of android application can enhance the current education system. In existing education system, for example, teaching primary school children, teacher uses blackboard teaching method or by showing 2D images in books to explain about any element in the real world. The above practice may or may not enhance the knowledge about the particular element by all the students in class. But by introducing augmented reality into education system, teacher can show 3D object to student instead of drawing 2D image on blackboard. The objects can be viewed from different angles – left, right, top, and bottom. And the object can be scaled even play animation on it with audio. The 3-D augmented model objects can easily understand by the students. This idea of learning enables them to quickly grasp more and more as compare to conventional teaching approach. In this paper, to enhance the education system, proposed an idea to use augmented reality with android platform. Here, for experimental purpose taken sample size of 35 tracker images to generate their 3D objects in our android augmented reality application. In this paper, described 10 samples with their augmented 3D objects.

Ethical and Social issues of IT Education in India

Suraj Malhotra, [1] **Sonal Singh**, [2] **Prof Seeza Franklin**, [3]

Abstract:

This paper is focused on the Internet safety, ethical and social issues of Indian Students. We have tried to explore the ethical dilemmas that students face when using social media, in particular social networks and in the classroom. We firmly believe that the Indian culture, morals and values can still be passed to younger generation with the help of social media. This paper illustrate on the authors experience in learning with, and researching students use of social media in the classroom. Ethical issues of consent, traceability, and public/private boundaries are also discussed. We also discuss the complex issue of the rights that moves around virtual identities of the students. Finally we discuss the ethical dilemma involved in recognizing and responding to illicit activity. While we reflect on our own response to these dilemmas and propose a dialogic process as the way forward, we also return to the argument that these ethical choices are dilemmas in which most, if not all, are disgusting or unfeasible.

Automotive Vehicle: RFID based using ZigBee

Ashish Shinde [1] **Nidhi Panghal** [2]

Abstract:

In today's world the automotive industries are developing very fast. The vehicles are now the human driven. Today cars are connected with devices and have many advance technologies as compared with old age. The automotive industries are on brink of revolution, to move on self driving automobile industry, And the technology is the fast growing technology, the internet of things (IoT).the IoT will transform the automobile industry and the automobile industry will provide a large boost to IoT. This paper examines the use of ZigBee in the automated vehicle and transmit the data related to the vehicle position.

E-Prescription App Framework for Healthcare Sector

Akshay Page

Abstract:

Nowadays in 21th century, large number of people have smart phones in their hand, by which their life is simplified to a great extent. They provided easy, fast, secure and hassle free solutions to the problems faced by people. They can do anything like sending messages, photos and videos (using apps like whatsapp), sending money (using apps like paytm) or checking the bank balance. But there are some areas where still work is done manually, which can be made simpler by using mobile apps. This research paper focuses on medical service or healthcare domain, where currently most of work is done on paper basis, which can be improvised and made more efficient by using mobile application.

Implementation of Smart Data in Market Research Strategies.

Dipesh Dattaram Dawande [1] Crasto Raymant Leo [2] Prof. Smitaraja Kapse

Abstract:

Market research is one of the major sectors in today's world. One of the famous strategies used in market research is Surveys. Surveys consist of questions which are answered by consumers or customers. Data collected through these surveys is used to develop strategies for improving products and services.Consumers/Respondents may found surveys lengthy and irritating if they are asked to answer same questions repetitively. To avoid this we introduce Smart data in the paper. Smart data is usually a big data turned into actionable data that is available for a variety of business outcomes, whether it's in industrial applications, data driven marketing or process optimization. With smart data were really looking at ways to remove the noise of the sheer aspect of Volume.

Educational Data Mining: A Critical Study

Priya Chandran [1] **Sanakhatun S. [2]**

Abstract:

Educational data mining (EDM) is an emerging research area, where different techniques are used to explore huge data coming from educational system. EDM is concerned about the effective use of educational data to improve and optimize learning process and the methods developed using this approach can be used for predicting and analyzing students learning behavior. Various factors affecting teaching-learning process can be analyzed and effectively applied using the models built using EDM. Data mining methods enable institutions to use their huge data, collected through various activities, to uncover and understand hidden associations and patterns. Data mining models are built using these patterns and associations to predict student's behavior and hence resources can be effectively allocated to attain outcome. This paper introduces and investigates state of the art schemes carried out in this field and their relevance

Vision, Challenges and Security concern on Internet of Things (IoT): A Literature Review

Anushree Goud [1] **Nidhi Panghal [2]**

Abstract:

One of the buzzwords in the Industry today is IoT. It plays a vital role for managing business models in public and private sector for accessing information via internet technology. IoT aims to unify things under infrastructure, giving users not only control of it, but also keeping them informed about its state. Moreover this research article focuses on broad area around the network based on internet technology and to examine the literature through a vision of security and privacy concern. Security is the top factor of Internet of Things (IoT). Business is advised to monitor the data traffic from IoT devices in the network. Protective Walls are not adequate in today's IT sector because users and applications can no longer be constrained inside a company's network. The major focus of this review is to provide an overview of things and technologies based on Bluetooth, Internet, Wifi, RFID, Zigbee, Cloud Computing etc.

New Horizon Of Green Computing

Mayuri Dendge

Abstract:

Trending Green computing is the smart way to paradigm shift of go green. Green computing is a broader term can be denotes as an environmental and social responsibility for optimum energy utilization with eco-friendly use of computer and resources. Green practices are to be implemented from product manufacturing process to disposing techno trash resulted in global sustainability. The green IT movement tends to reduce energy use, waste and toxic substances basically from IT industry. In this globalization era industries are contributing GHGs (green house gases) that adversely affect to the environment. This paper is focusing on various energy efficient green practices and green solution to minimize the hazardous impact from e-waste and also contribute the ecological and economical benefits to the world.

4D printing: Evolution and Future

Shraddha Varang [1] **Mrs. Sudeshna Roy [2]**

Abstract:

3D printing is not self configurable so to overcome that 4D printing has came into picture. 4D printing uses smart materials which allow changing the object according to the environment. In this paper we first discuss technologies like polyJet, Electro active polymers approach used for creation of 4D printed objects and it focuses on the differences between 3D and 4D printing techniques. It also reviews on how this technology is giving a whole new dimension to the education system. It also covers application areas where 4D printing objects can be used and its future. Keywords—3D printing, 4D printing, smart material, Additive Manufacturing

Change Detection in Slum Development : A Case of Ghansoli Navi Mumbai

Ankita Vijaykumar Kottur

Abstract :

Spatial data mining is applications of data mining techniques to spatial data that follows along the same functions as data mining, with the end objective to find patterns in geography or GIS. Change detection is the process of measuring the thematic change of land cover and land usage that have occurred due to continuous change. The paper uses the techniques of spatial data mining (SDM) and change detection (CD) in the field of geospatial information processing. The knowledge and technology of SDM are integrated into applications of change detection of slums pockets in the Ghansoli node of Navi Mumbai over a period of 10 years.

IOT Based Smart Shopping with Money Management

Prashant Naik[1] **Prof .(Dr.) Suhasini VijayKumar[2]**

Abstract:

Now a days it is common to see people are getting engaged in online shopping through ecommerce site but still shopping center or malls become more crowded on weekends or holidays. People purchase different item from mart or malls and put them into trolley and at the end they visit to cash counter where billing process is done through the barcode scanner. This is very time consuming process. In this paper we are proposing Smart Shopping Cart which have a unique ID and uses the RFID , ZigBee (wireless technology used for personal area Network) and also a Software Application for specific mart or mall where the Real time data are seen by the user. customer select the Items and the price of item shows with discount and customer can manage the Items according to the requirement and available money. Customer gets the Prior Knowledge of Items and Price through the Application.

Digital Divide: A Road Block for Digitalization in Rural India

Dr Kamini Khanna[1] **Prof. Veena Chavan[2]**

Abstract:

The phase "Digital Divide" has been applied to the gap that exists in most Countries between those with ready access to the tools of information and communication technology and the knowledge that they provide access to and those without such access skills. A further gap between the developed and under developed world in the uptake of technology is evident with in the global community and may be of even greater significant. The relevance of these strategies to developing countries and strategies for reducing the international digital divide are also explored. The phenomenon of digital discrimination prevailing among various social, political and working groups has led to the emergence of digital information rich and digital information poor groups within societies and perhaps in the global environment. This paper discusses how the digital divide can be a road block for digitalization in rural India.

Skepticism about Digitalization in Indian Banking Industry: Past and Present

Prof. Rajni Mathur [1] **Prof. Vikrant Gharat [2]**

Abstract:

Digitalization is not an isolated phenomenon; it is making inroads in many sectors over last three decades. Digitalization started transforming business processes in most of the Industries including banking industry in India through business process re-engineering. Indian banking industry has witnessed a revolutionary development in information and communication (ICT)over the past 20 years. Banking industry got revitalized with the introduction of technology, and travelled a long way from mediocre websites, database management to sophisticated CRM portals. However to what extent it is beneficial for the growth of economy and what all are theimpediments, need to be analyzed. Recent paradigm shift in the Indian Economy from cash to cashless transactions has further fueled the debate over the challenges in the domain of digital infrastructure and allied aspects in the context of digitalization in the Banking Industry. In this paper we have probed what all are the challenges faced by Indian Banking Industry

Cloud Computing and Migration

Ms. Swati Pralhad Sandanshiv

Abstract:

Over the past decade, cloud services have rapidly become one of the most defining technologies in IT. Cloud computing with its benefits attracting each and everyone. Adoption of cloud computing has been increasing from past decades. Cloud migration is the process of moving data, applications or other business Data from an organization to the cloud, or moving them from one cloud environment to another Cloud Environment. After moving data onto cloud, people can access it through internet.

Arduino Based Smart Electronic Equipment Control System: For Meliorate Differently Blessed People

Mrs. Varsha Prashant Desai [1] **Dr.R.D.Kumbhar [2]**

Abstract:

The purpose of this research project is to ease the life of differently blessed person. For normal person efforts required to switch ON/OFF any electronic control system is very little. If we could sense the same efforts with considering differently blessed person/old age person, this efforts counts in Tons. So this research project basically designed and developed to ease the efforts of differently blessed person for their day to day needs. As a contributor to this effort, smart electronic equipment control system is considered as good alternative for differently blessed people to lead life independently. In this paper we have used Arduino based system with relay module to control different smart equipment like AC, air cooler, room heater, LED bulbs, washing machine, fan, electronic doors, curtains, pet feeding machine, lift control, electronic plant watering system etc. With this research we made efforts to develop a system which is physically versatile in functionality and user friendly. It allows user to handle equipment with the minimal efforts, without causing him/her any pain, inconvenience. This paper describes experimental model of Arduino based smart electronic equipment control system. Arduino is a microcontroller used to make communication with objects by taking input from Bluetooth or sensors and send output to physical devices. Using this system we can control any electronic equipment by smart phone application through Bluetooth connectivity. It is also integrated with speech recognition technique to ON/OFF device or equipment. This system is practically designed and tested for controlling LED bulb and fan through android application with smart phone. Open source Arduino software is used to develop a program that controls different electronic equipment through single android application. This project is tested on the grounds of technical feasibility, financial feasibility and acceptability.

Use of Big Data in CSR – Incentives and Challenges

Dr. Purvi Pujari [1] **Mr. Manish Pujari [2]**

Abstract:

Big data is the latest trend to take on the world. In the recent times, it has become an important tool for defining and creating business strategies. With the current changes in technology, every company is becoming a technology company. Increasing use of E-commerce, mobiles, social media, cloud has resulted in creation of enormous amount of data. As a result, businesses all over the world have started to generate huge data. This data can be stored, segregated and positively utilized for policy and decision making by various government and non-profit agencies. There is a need to identify the implication of use of Big Data in the fields benefitting the society. This paper attempts to explain the use of Big Data in the field of CSR. It also explores incentives and challenges of doing the same. Research methodology used in the paper is primarily of exploratory type as it attempts to understand and explore the scope of Big Data in the field of Corporate Social Responsibility. Data used for this study was basically secondary data comprising of research papers, journals, newspaper articles, e-books etc. The researchers after studying data regarding this upcoming field come to the conclusion that Big Data brings to the fore huge potential as far as field of CSR is concerned. There is huge scope for further research so as to identify the specific role Big Data Analytics can play in this regard. The ability of any business to procure and store data, and then analyze and convert it to useful management information regarding CSR, is going to be the game changer. The companies integrating their social responsibility activities with the huge but better representative data will turn out to be the transformational element of businesses in the years ahead.

Smart Secure Security on IOT

Shyam Waman Patil [1] **Prof. Pratibha M. Deshmukh [2]**

Abstract:

With increasing popularity of the IoT (Internet of Things) and devices getting smarter day by day, this paper presents an idea to reform the existing access control systems. This approach of enhancing the access control system ensures that the system is wireless thereby reducing wiring issues. The points described in this paper have the provision of accepting inputs from a smart card reader (RFID reader) or a biometric sensor. These inputs are processed inside the controller. If the inputs are found to be valid, access is granted to the user and the logs are wirelessly transmitted to the computer using a Wi-Fi module (CC3100). Machine learning algorithms are implemented to monitor and analyse collected data.

Boom Of Digital Wallet In Period Of Demonitization –With Reference To Paytm

Alka Dhingra [1] **Sameer Sonawane [2]**

Abstract:

India – traditionally cash based economy announced the biggest and most ambitious move to crack down black money and move towards digitization and cashless economy i.e. Demonetization.The demonetization has led to several opportunities and crunch in money supply.This paper will represent how the phrase of situational opportunities in demonetization have turn boom for Pay tm as the digital wallet.

An Analytical Study Of Executive Stress Management In Selected Industries Of Thane District

Mrs.Saili Satyendra Narvekar[1] **Dr.Anjali Kalse[2]**

Abstract:

In the recent years, the problem of Executive stress has received an excessive amount of attention in the researches undertaken in the field of management and management psychology. This special focus on the subject of executive stress is due to the fact that the continuously prevailing executive stress continues to take its toll on human health, human life and human enterprise. This hinders career, success shortens live, impairs mental and physical health; all in all, it diminishes the effectiveness of an individual in all fields of life. The paper focuses on the comparative study of job stress level of Executive amongst the Manufacturing and Service sector as well as the effects of the same on their respective work and life performances.