Deep Learning in Artificial Intelligence

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I. INTRODUCTION

Artificial Intelligence is the field of computer technology and which is used to apply varies theories, models, methods, techniques and algorithms to simulate and develop intelligent systems. AI enables to solve real time problems by using computer and make intelligent decision. An algorithm is the main part for developing or solving real time problems and it is the step by step procedure at each stage. AI algorithms are set of procedure and used to perform intelligent behaviour and make successful decision using involvement of learning and perception. The main purpose of AI is to apply technology to real time situation and reduce the human efforts. The high level goal is to the user to exhibit perception behaviour to intelligent machine. Learning is the most important part for applying AI based solutions or automated environment. Learning can be done by perception of input behaviours at different environment. Deep learning is the most responsible part to recognize or percept following capabilities of intelligent system like problem solving, decision making, planning and reasoning, interaction and knowledge representation. Deep learning process is used to build, represent and analysis input behaviours and involves symbolic and neural forms to achieve knowledge representation. Knowledge representation is the important part in AI and which leads the role to make intelligent machine with decision making capabilities.

Machine learning and Natural Language processing is need to apply deep learning process. Machine learning techniques are used to analyse the behaviours be set of input characteristics. A successful intelligent AI system gives the ability to read, write, process and generate human and native user inputs. Nowadays Internet are playing important role in day-to-day life and includes information processing and analysing various inputs such as text, audio, video, etc. Handling internet request AI researchers are developed highly effective algorithms as well as computer vision techniques.

This paper mainly focuses on general techniques of AI with deep learning characteristics and gives historical view of current state of intelligent systems. Based on various survey we focused the AI can verifies different paradigms such as machine learning, agent interaction systems, natural language processing, etc. The core application of AI the above is need and most significant contribution in AI technology and deep learning.

II. THE FIRST ERA OF AI

The expert systems are started in engineering domain in 1970s and it devised computer programs based on pseudo code transition. Teach Pendent type of AI system involved in Expert application processing in telecommunication and commercial environments. In this case the capability of learning and converting new situation is difficult process. So the decision making process was not up to the level and solve the complex problem is tedious process. The expert systems developed in 1980s with the if-else statement t make decision with inference rule forms. Due to this stage the first AI system cannot handle real time data processing, language processing and chat based applications.

The researchers can decide machine learning based expert systems with the involvement of contributors and optimization produce to good software deliverables. According to the survey of Colorado University and Li Deng et al, the speech processing agent systems are in the field of 1990s to perform automated caller based response system. The author can contribute to transmitting from inference rule based mechanism to speech recognition system with the capable of data domain, knowledge and statistical approach.

III. THE SECOND ERA OF AI

The speech processing agents are used in real time application and which gives clear picture of learning and perception. Computer vision was played vital role for handling perception and knowledge request. According to defence based knowledge systems and NASA report the speech based agents are having autonomous behaviour and automated learning capabilities. In this case, the machine learning inputs and natural language processing are combined with deep learning representations. In such cases, AI system more focuses on trained input data and predefined algorithms. The real time input capturing agents are designed in 2000s with the key components such as decision trees, Bayesian networks, support vector machine, neural networks, etc. Generally the AI system performs various real time applications like face recognition, Bio-metrics process, speech processing, machine learning vision applications, etc.

Review of Momo attack in WhatsApp

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1. WHAT IS Momo?

Today the day to day life begins with mobile phone and 90% of peoples from the world using social media apps such as WhatsApp, Facebook, Twitter, Instagram, etc. Regular chatting and surfing at any place and sharing text, audio, image, video to others. The important of mobile usage now changed to sharing and chatting like video call, online sharing, shopping, etc. Recent days the we receive unknown message with the name of 'Momo' and they tell all the details of your details. So we suddenly shocked and get outdated details. Momo is not a attack and is the person already you known or unknown person creates duplicate account in the name other country person or other county numbers using mobile app and registered mobile OTP access. Normally the human minds set the unknown messages are received from WhatsApp and they shared your all the detail means we afraid and chat with Momo. Momo is not an attack it is private message or individual message from unknown number by your known person.

2. SOCIAL CHALLENGE

A recent social engineering scheme has spread across Latin America and could hit the borders of the United States. A WhatsApp contact called, "Momo WhatsApp" was posted on social media sites and has a Japanese area code and a photo displaying a bulging-eyed girl. Claims that interacting with the profile can incite youth suicide through coercion have been circulating around the Internet for days.

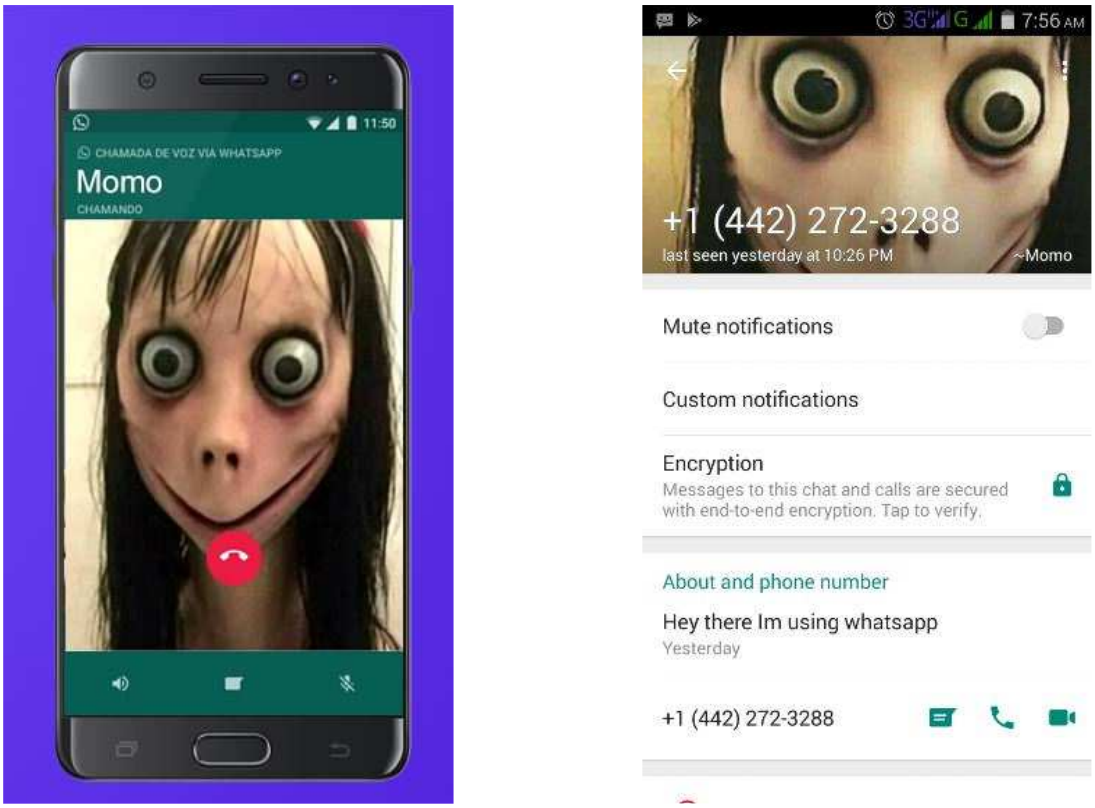
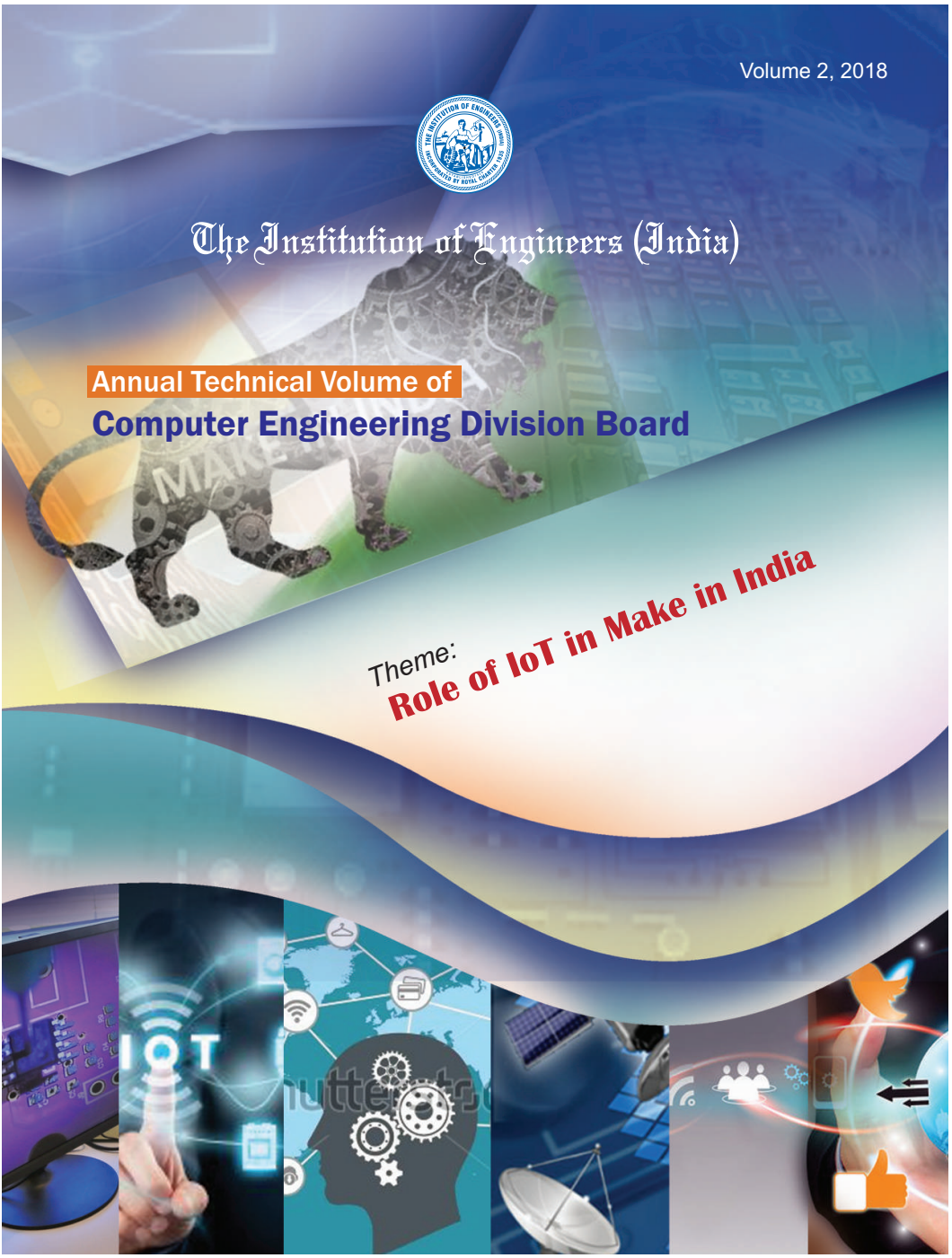


Figure 1: Mo Mo Person details

The above Figure 1. Shows that the details of Mo Mo and the number represents as other country details

Frightfully, points of interest of the Momo WhatsApp episode reverberate reports of the Blue Whale Challenge that circulated around the web in 2016, which has been bantered as a scam. Logical paranormal examiner, Ben Radford, set that the Blue Whale Challenge is a legend, propagated by the weight on experts to put forth official expressions on gossipy



Driving Artificial Intelligence into IT and ITES

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Abstract

Artificial Intelligence (AI) is the field of emerging trends in economical, societal, industrial and technological area. Intelligent systems play an important role in day-to-day life and provide various decision support applications. The competition in the field compels intelligent systems playing different essential roles in real time. The demand of supply and growing customer base require automated and autonomous functional agents and the involvement of IT and ITES. This paper throws light on how AI has influenced the change in society and real time applications. This survey includes industrial information, intelligent technologies, machine learning, social networking and data analytics process. It summarizes the study of automated and autonomous functional agents and decision support systems involved in the field of IT and ITES.

Keywords : *AI; Decision support systems; IT and ITES*

Why AI is Needed?

Now-a-days, Artificial Intelligence (AI) techniques in IT and ITES, such as, Big Data, Social Networking, Parallel Processing, Decision Making Applications, Knowledge Engineering, etc deploy deep, wide and major applications. AI components are autonomous in nature and provide decision support applications in Industry. The machines with intelligent behaviour and thinking capacity produce different services. The agent program follows native behaviour, operational support systems, bug free environment and game playing nature.

According to the survey, the information technology used to think and act rationally with updated status with the combination of new evolution of IT and past IT technologies and produce intelligent technologies with industrial revolution [1].

Where AI is Needed?

It is important to know where IT and ITES are used in real society with the support of AI. According to Karl Poper and Kal Jasper Theory, the revolution of IT era is classified into four levels a) Industrial Revolution; b) IT in Industry; c) IT in Commercial and d) Intelligent Technology. In this survey, the technology growth rationally with the help IT and services also needed. Now, the SMAC (Social, Mobile, Analytics and Cloud) environment can not do anything without internet and the intelligent machines are needed in all the operations[2]. According to Roger Thompson, the technological swift are always growing up when the intelligent system and smart system process are regularly updated .

These four technological swift and the interaction between each levels are monitored and recorded. The automated intelligent machines are used in the industry to reduce the human effort[3]. Now-a-days, the concepts of cloud computing and IoT applications are developed and used in variety of social environment applications[4].

The intelligent machine is also called decision

CBIR SYSTEM USING 3D CAPSULE NETWORK METHOD FOR ALZHEIMER'S DISEASE DIAGNOSIS

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Alzheimer's sickness (AD) is an irreversible sickness of the brain associated with loss of memory, generally seen in the aged and growing old populace. Implementation of revolutionary laptop aided analysis techniques with Content Based Image Retrieval (CBIR) has created new potentials in Magnetic resonance imaging (MRI) in applicable picture retrieval and schooling for detection of development of AD in early ranges. This paper proposed a CBIR gadget using 3-d Capsule Network, 3-D-Convolutional Neural Network and pre-skilled three-D-autoencoder generation for early detection of Alzheimer's. A 3D-Capsule Networks (CapsNets) is able to fast mastering, even for small datasets and might effectively deal with sturdy picture rotations and transitions. It was located that, an ensemble approach using 3-D-CapsNets and convolution neural community (CNN) with 3-D-autoencoder, improved the detection performances comparing to Deep-CNN alone. CBIR the use of the proposed version became located to be up to ninety eight.42% correct in AD class. Moreover, we argue that CapsNet appears to be a promising new approach for picture classification, and similarly experiments using extra strong computation assets and delicate CapsNet architectures may additionally produce better consequences.

A SURVEY ON BIG DATA ANALYTICS IN SOCIAL NETWORK

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Big data is a huge amount of data that used to describe a massive volume of both structured and unstructured data .It is difficult to capture, manage, process or analyzed. They are using big data increasingly almost everywhere on the planet –online and offline. Big data analytics inspect today's Technology to analyze large amount data to uncover hidden pattern, correlations and other imminent. This paper focus to develop a new big data analytics service in advertising and marketing based on emergent big data Techniques. The main objective of this paper is to provide real-time and static on demand services for advertisers and publishers to decide when, what, where, who, and how to place advertisements to analyze the collected big advertising data, discover customer's behavior patterns, and establish an innovative model for advertising recommendation and trend prediction. It brings together various disciplines such as social media analysis, information retrieval techniques, reasoning, natural language processing (opinion mining), graph mining and analysis, linguistics, machine learning, multimedia management and big data processing. Hadoop architecture, then focus on the analysis of Hadoop framework for sentiment analysis of social media data.

Keywords: Big data ,Static demand Services for Advertisements, Hadoop Framework, MapReduce, Social Meadia [Facebook,Twitter,Youtube].

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ANALYSIS OF STATIC POWER MANAGEMENT IN VIRTUALIZED DATA CENTERS

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Cloud computing is an emerging generation within the area of computing that provides access to a extensive range of shared resources. The rapid boom of cloud computing has led to setting up severa statistics centers round the arena. As records facilities devour big quantities of power, improving their energy efficiency has come to be a first-rate project in cloud computing. This paper surveys preceding studies and researches that aimed to improve energy efficiency of virtualized information facilities. This survey is a precious manual for researchers in the field of strength efficiency in virtualized facts facilities following the cloud computing model.

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MONTENEGRO CONTAINER SIMULATION IN SEAPORT USING MANET AND ZIGBEE

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The paper provides the outcomes of some OPNET simulation experiments found out with an aim to benchmark MANET and ZigBee networks' performances at the seaport environment. The MANET is shaped amongst people' and supervisors' non-public digital assistants (PDAs). On the alternative aspect, the ZigBee is set up between end-nodes or employees' frame crucial units (BCUs), which acquire signals from several energetic and passive gadgets embedded into ID badges and personal protective equipment (PPE) portions; numerous shifting and fi xed routers; and the coordinator set up at the proper seaport location. The simulation experiments are found out over the layout of the Port of Bar (Montenegro) box and widespread shipment terminal through taking into account the actual wide variety of workers and supervisors engaged at the terminal per every shift. This research paintings should deliver an perception to the seaport's managers and stakeholders into a few blessings and disadvantages of those taken into consideration wi-fi networks' schemes, and to encourage them to offer conditions for implementing these or similar on seaport and backend data-communique solutions for uprising the stage of occupational safety and ordinary seaport's environmental management device.

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