Literature Survey

Abstract

There is an endless exciting new research in the field of Artificial Intelligence; this review is far from a global summary of the progress made in the last decade. There also scores of fields within AI. Much of the research covered in this review could be applicable to developing strong AI. Creating a machine capable of understanding the concepts behind the words is important because it allows for more humanlike conversations as well as improved translation. There is also fascinating research into detecting human emotions through audio and video cues. In particular, this paper provides a full review of recent developments within the field of artificial intelligence and its applications. The work is targeted at new aspirants to the artificial intelligence field. It also reminds the researchers about some of the issues they have already known

Keywords: Artificial Intelligence, Artificial Neural Networks, Machine learning, Nutrients

Introduction

The term “artificial intelligence” was first proposed in 1955 by the American computer scientist John McCarthy (1927– 2011) in the proposal of a research project, which was carried out the following year at Dartmouth College in Hanover, New Hampshire . Artificial intelligence (AI) as a branch of computer science, the purpose of which is to imitate thought processes, learning abilities and knowledge management, finds more and more applications in experimental and clinical medicine. In recent decades, there has been an expansion of AI applications in medicine and biomedical sciences. The possibilities of artificial intelligence in the field of medical diagnostics, risk prediction and support of therapeutic techniques are growing rapidly. Thanks to the use of AI in ophthalmological , radiological and cardiac diagnostics, measurable clinical benefits have been obtained. AI was used in research on new pharmaceuticals . The development of AI also provides new opportunities for research on nutrients and medical sensing technology .

Image Processing and Vision System:

Human centered design is attempting to move away from the current paradigm where a machine simply responds to given commands from a keyboard, mouse, or simple verbal commands. This shift will require am increased ability to process images and perceive information. Most existing image processing software that performs facial recognition utilizes 2D spatial analysis by looking for geometric shapes and edges in the face. But research suggests that the most accurate behavioral judgments of human action come from analyzing both facial expression and body language

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Title:

AI Nutrition Recommender Sysytem in the year 2019

Journal:

The 12 th pervasive Technologies Related to Assistive Environments Conference.

Findings:

Food category Recogniser,Object vision ,Convolutional Neural Network(CNN) and Computer vision

Advantages:

AI and its various subsets have been leveraged by these platforms to identify the calorie intake and also to make food recommendations for a healthy diet.

Disadvantages:

In Order to make recommendations,the system needs to collect nutritional needs from users.

CONCLUSION:

This paper is based on the concept of artificial intelligence, areas of artificial intelligence and its techniques. The field of artificial intelligence gives the ability to the machines to think analytically, using concepts. Artificial Intelligence will continue to play an increasingly important role in the various fields. We conclude that further research in this area can be done as there are very promising and profitable results that are obtainable from such techniques, while scientists have not yet realized the full potential and ability of artificial intelligence. This technology and its applications will likely have far-reaching effects on human life in the years to come. This review has not attempted to detail all the literature in the area but to report mainly the most recent work

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"A Literature Review on Artificial Intelligence", Volume 19, Number 4, pp. 535-570, 2008, S.A. Oke, University of Lagos, Nigeria.