

RESEARCH PROPOSAL

ADVANCES AND SPECIALIZATION OF ARTIFICIAL INTELLIGENCE: A STUDY OF NARROW TO SUPER INTELLIGENCE

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Abstract

In the future, intelligent machines will replace or enhance human capabilities in many areas. Artificial intelligence is the intelligence exhibited by machines or software. It is the subfield of computer science. Artificial Intelligence is becoming a popular field in computer science as it has enhanced the human life in many areas. In the last two decades Artificial intelligence has greatly improved performance of the manufacturing and service systems. Study in the area of artificial intelligence has given rise to the rapidly growing technology known as expert system. Application areas of Artificial Intelligence is having a huge impact on various fields of life as expert system is widely used these days to solve the complex problems in various areas as science, engineering, business, medicine, weather forecasting. The areas employing the technology of Artificial Intelligence have seen an increase in the quality and efficiency. Thus the study examines the advances and specialization of artificial intelligence from narrow to super intelligence.

Introduction

The intelligence demonstrated by machines is known as Artificial Intelligence. Artificial Intelligence has grown to be very popular in today's world. It is the simulation of natural intelligence in machines that are programmed to learn and mimic the actions of humans. These machines are able to learn with experience and perform human-like tasks. Technologies such as AI continue to grow will have a great impact on our quality of life. It is but natural that everyone today wants to

connect with AI technology somehow, may it be as an end-user or pursuing a career in Artificial Intelligence.

Review of literature

Research on artificial intelligence in the last two decades has greatly improved performance of both manufacturing and service systems. Currently, there is a dire need for an article that presents a holistic literature survey of worldwide, theoretical frameworks and practical experiences in the field of artificial intelligence.

The study of Darrell M. West and John R. Allen stated that “AI is a technology that is transforming every walk of life. It is a wide-ranging tool that enables people to rethink how we integrate information, analyze data, and use the resulting insights to improve decision making. Our hope through this comprehensive overview is to explain AI to an audience of policymakers, opinion leaders, and interested observers, and demonstrate how AI already is altering the world and raising important questions for society, the economy, and governance.” (Darrell M. West and John R. Allen, 2018)

The study of Amr Kayid stated that one of the primary goals of AI field is to produce fully autonomous intelligent agents that interact with their environments, find out optimal behaviors, improve over time through trial and error almost like humans. It has been a long standing challenge, ranging from robots, which can sense and react to the world around them, to purely software-based agents, which can interact with natural language and multimedia. Current AI technologies are utilized in driving, aviation, medicine, online advertising, image recognition, and personal assistance. (Amr Kayid, 2020)

This paper reports the state-of-the-art on artificial intelligence in an integrated, concise, and elegantly distilled manner to show the experiences in the field. In particular, this paper provides a broad review of recent developments within the field of artificial intelligence (AI) and its applications. The work is targeted at new entrants to the artificial intelligence field. The researcher found a gap on the study of narrow to super intelligence. So, this study spotlights on advances and specialization of artificial intelligence from narrow to super intelligence.

Objective of the proposal:

The aim of the proposed study is Advanced and Specialization of Artificial Intelligence from narrow to super intelligence to identify the performance of various kinds of artificial intelligence and innovative things which can be implemented. This research will explore past and recent advances in artificial intelligence and services in modern teaching using networks, robotics and will discuss challenges in designing intelligence machines.

Materials & Method

SOFTWARE REQUIREMENTS

Platform	: JDK 1.5
Program Language	: JAVA
Tool	: NETBEANS 5.5
Operating System	: Microsoft Windows NT 4.0 or Windows 2010or XP

HARDWARE REQUIREMENTS

Processor	: 733 MHz Pentium III Processor
RAM	: 512 MB
Hard Drive	: 50GB
Monitor	: 14" VGA COLOR MONITOR
Keyboard	: 104 Keys

Mouse : Logitech Serial Mouse

Disk Space : 1 GB

Expected Outcome:

Artificial intelligence can dramatically improve the efficiencies of our workplaces and can augment the work humans can do. When AI takes over repetitive or dangerous tasks, it frees up the human workforce to do work they are better equipped for—tasks that involve creativity and empathy among others.

References

- Amr Kayid, “The role of Artificial Intelligence in future technology”, Research. Net Publication, March 2020, https://www.researchgate.net/publication/342106972_The_role_of_Artificial_Intelligence_in_future_technology
- Darrell M. West and John R. Allen, “How artificial intelligence is transforming the world” Brookings Education Research, April 2018, <https://www.brookings.edu/research/how-artificial-intelligence-is-transforming-the-world/>