

AI ENVIRONMENT AND ITS IMPACT ON VARIOUS INDUSTRIES

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Abstract

In this paper, I review the role of cognitive psychology in Artificial Intelligence. This paper examines the current thinking, state-of-the-art applications and predictions surrounding AI to Bring to light many examples of how it will transform the way we work and how we can perform it to improve the quality of the built environment.

Artificial intelligence may greatly increase the efficiency of the existing economy. But it may have an even larger impact by serving as a new general-purpose “method of invention” that can reshape the nature of the innovation process and the organization of Research & Development.

We suggest that policies which encourage transparency and sharing of core datasets across both public and private actors may be critical tools for stimulating research productivity and innovation-oriented competition going forward. Domains could be anything like Medical, engineering...etc. the participants are perfectly rational, that attempt to directly model each participant's cognitive processor. Nowadays whatever we have an understanding of any problem the Agent needs. It is reflected in the Agent or what he has taken to solve problems. If an Agent is capable of predicting the next action, it could determine whether she/he might fall and take action to attempt to prevent it. A natural stating any problem we need to point in applying deep networks to prior knowledge a new domain for testing the performance of a regular feed-forward neural network.



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Introduction

Autonomous Technology in almost all industries and the launch of a large number of AI-based machines and services would improve every industry such as health, educational opportunities, security, transportation, safety, trade and every other aspect of living. AI



industries that will create more opportunities in the near future viz. healthcare, cyber security, core AI, business intelligence and marketing & sales. Berners-Lee's proposal was invented through the late 1980s the world's first computer for the world-wide web and on to the present day with Artificial Intelligence Technology, is the exponential growth in processing power and data.

Introducing AI is a major step-change in truly disruptive technology. Gone are the limitations imposed by traditional data-processing applications, in their place are predictive analytics and other advanced methods for extracting meaning and value from data.

When we talk about AI, we should bear in mind that it is a branch of computer science. It is dedicated to the study of computer software capable of making intelligent decisions, reasoning and problem solving no more, no less. AI, like human intelligence, needs to reside somewhere; in most cases, this is a device that we might use daily, such as a smartphone, or a machine endowed with cognitive capabilities to undertake a defined set of routines in a controlled environment. In its early days Artificial Intelligence was closely existing to-gather with AI Environment.

Research Objectives

It will provide a better understanding of the innovations, the actual current degree of integration, application and the impact of AI in various industries. AI is a 60-year-old technology yet couldn't influence society.

What are the factors which are resulting in today's AI exponential growth?

How "intelligent" machines and services are related to AI?

Which of them are available for commercial use?

What is behind all these real-world intelligent applications?

Which AI algorithms are making these artificial systems intelligent?

Which countries are leading this race of AI?

Literature Review

AI technologies, to advance the public's understanding of AI, and to serve as an open platform for discussion and engagement about AI and its influences on people and society Its mission is to determine how society can harness intelligent machines for its benefit whilst keeping a tight grip on its risks.



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The partnership boasts IBM, Google and Microsoft among its membership. Predictions about AI's impact on almost everything.

A survey conducted by the British Science Association to understand what the public thought about robotics and AI and how it would affect society and culture found that one in three believed that the risk of AI was a threat to humanity.

Roughly would not trust robots in roles that included

Robots	Percent
Surgical Procedures	53%
Driving Buses	49%
Flying Commercial Aircraft	62%

In contrast, machines could be trusted to carry out household tasks such as

Trusted Robots	Percent
Cooking and Cleaning	49%
Monitoring Crops	70%
Flying unmanned search and rescue	48%

It seems that the public is inclined to shun anything that is too close for comfort, but would be ambivalent to anything that did not affect it directly or which was regarded as one step removed.

Main Body of Paper

The increase in popularity of AI has led to an expansion in the investment in various industries of AI including research, development, marketing, and production and vice versa. Some of the corporations with the maximum number of mentions of the word "artificial intelligence" in their earning calls are NVIDIA, ORBCOMM, Microsoft, and Facebook. These industries are making the technology commercially available in the form of APIs (application program interface), deep learning libraries, personal and professional agents,



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Chabot's, robots, and many other exciting products. This is enhancing their business valuation, adding new dimensions of resources and making their products and services intelligent. All these real-world applications, there is an AI-driven system or an intelligent agent (IA). It interacts with the environment in a repetitive cycle of sense-think-and-act. It takes in the data from the environment, makes an informed decision based on the input data and past experience, and finally performs an action affecting the environment.

These systems can secure more sales by attracting valuable customers to visit the site more frequently again and again. Some of the examples using automation and AI processes in business are product suggestions by retail industry (e.g. Amazon), video suggestion by the entertainment industry (e.g. Netflix and YouTube), songs suggestion (e.g. Spotify and Last.fm), recommendations of grocery products (e.g. Big basket), recommendations of books (e.g. Read geek).

Automotive Industry

Artificial Intelligence has become an essential component of automated drive technology and it is important to know how it works in autonomous and connected vehicles.

The process of automating repetitive human task autonomous cars has implemented AI with the objective of saving human lives.

It is currently being used in voice recognition, voice search, recommendation engines, sentiment analysis, and image recognition and motion detection in autonomous vehicles.

Education:

AI is also being used across the educational landscape to develop new tactics for helping people learn. Synap is an online platform that allows students to create and share multiple-choice quizzes to help each other study. The company fuses predictive algorithms with the latest neuroscience research to build personalized learning plans for each student. The result is a program capable of delivering the right question at the exact moment the student is most likely to remember it.

Financial Institutions

Financial institutions are using AI to make better recommendations to customers and more thoughtful decisions company-wide. Kami, a chatbot company focused on banking and financial services firms, uses AI to mimic human logical reasoning skills. Its technology



analyzes chat conversations to understand the unique circumstances and personal preferences of each customer, illuminating purchase mentality, bias, and other subtleties that lie beneath the surface. This allows financial firms to deliver personalized advice, as well as to discover useful insights about their customer base.

Gaming:

In the gaming world, AI is transforming what was once a recreational hobby into a valuable tool for employers, scientists, and high-level government figures.

Improbable builds software that empowers users to create extremely complex simulations. When it comes to video games, this helps developers build massive online worlds for players to explore. Perhaps more important is that the software can also be used to simulate scientific experiments and real-world policy questions.

Healthcare

AI is revolutionizing healthcare by empowering doctors and hospitals to deliver better care, to more patients, and with greater speed. Babylon Health has developed an AI chat app - GP at hand - for the UK's National Health Service (NHS) that people can use as a first point of contact when they don't feel well. The app answers patients' questions about their symptoms 24/7, providing free, instant medical advice on what to do next. There is also the option to book a video consultation and speak with a physician if required. If the diagnosis calls only for over-the-counter medications, the app is able to save the patient from an unnecessary trip to the doctor. "AI helps cities make smarter decisions, and because AI learns, these decisions improve over time," says Nick Allott, CEO and founder of NquiringMinds. "Cities already hold massive datasets, and IoT will mean the speed and volume of this data will go through the roof."

Representing Knowledge Using Rule Logic

The representing knowledge uses either rules or logic. Rules are often used in rule-based expert systems, and are either specified by a knowledge engineer or they are derived from data using a machine learning or data mining algorithm.

Problems That Require Artificial Intelligence To Solve.

Humans already have that capability, since we have the ability to devise solutions to each, evaluate where the solution fails, repeatedly propose improvements or alternative solutions,



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until we eventually reach a solution that satisfies us or we give up. This ability for problem solving by Agent intelligence.

1. Searching for a better solution.
2. Representing knowledge.
3. Maintaining a conversation with a Consumer.
4. Creating artificial life.
5. Creating artificial intelligence.
6. Making water flow uphill.
7. Finding a general method of problem solving that is applicable to all of these problems.

Reasoning Using Rules and Logic

We can use the knowledge specified by the rules and logic sentences to infer new knowledge by a process called reasoning. There are various rules of inference that allows us to do this

Ex some rules of inference for first order logic

Conclusion and Future Scope

AI is the core technology responsible for extreme automation and connectivity and thus, taking the world towards the dawn of the fourth industrial revolution. This will have profound impacts on governments, communities, companies, and individuals.

autonomous technology in almost every sector and the launch of a large number of AI-based machines and services would improve health, educational opportunities, security, transportation, safety, trade and every other aspect of living.

If there is anything that AI has contributed to our understanding of intelligence, it is discovering that search is not just one method among many that might be used to attain ends but is the most fundamental method of all.

Searching for people is a problem that occurs in real life. It also has a corollary to many computer network problems. Ex. Resource discovery in a peer to peer network where a particular resource such as a file or computer with specific CPU requirement needs to be located.

References

Abadi M, Barham P, Chen J, Chen Z, Davis A, Dean J, Devin M, Ghemawat S, Irving G, Isard M, Kudlur M (2016) Tensorflow: a system for large-scale machine learning. 12th



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USENIX Symposium on Operating Systems Design and Implementation (OSDI 2016), pp 265-283

Amodei D, Ananthanarayanan S, Anubhai R, Bai J, Battenberg E, Case C, Casper J, Catanzaro B, Cheng Q, Chen G, Chen J (2016) Deep speech 2: End-to-end speech 33 recognition in English and Mandarin. International Conference on Machine Learning, pp 173-182.

Bernard M (2018) The Amazing Ways Chinese Tech Giant Alibaba Uses Artificial Intelligence And Machine Learning. Forbes Innovation Enterprise & Cloud. <https://www.forbes.com/sites/bernardmarr/2018/07/23/> Accessed 15 December 2018