AGI Human ArcOne

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Abstract

ArcOne AGI System: Flexible and efficient intelligent system design and application through multi-institutional cooperation

Efforts to pursue artificial general intelligence (AGI) Equipped with human-like learning, reasoning, and problem-solving abilities Our goal is to develop AI systems.

ArcOne is committed to exploring and advancing the possibilities of AGI. We pursue innovation by designing systems that integrate various modules. Over the past five years, I have been working on films including 'Iron Man', which I have been proud of since I was a child. Starting from various inspirations, we have developed AI technology that surpasses human capabilities.

I've been researching it. These efforts led to overcoming difficulties and creating ArcOne through passion.

ArcOne mimics and extends human brain functions to create a variety of artificial intelligence systems.

Integrated for optimal performance. As such, ArcOne is at the forefront of innovation and will play a critical role in shaping the future of AI.

1 Introduction

Over the past five years, I have been working on developing artificial intelligence technology that surpasses human capabilities. I have been dedicated. This effort was accomplished alone, with numerous challenges and difficulties.

Overcoming this, I have continued to strive to realize my own vision. My research and efforts led to the creation of ArcOne, an artificial general intelligence (AGI) system. It continued. The starting point of this research goes beyond simply technological development, and my own passion and It started with a challenge to realize the vision. Since I was a child I have grown up dreaming about artificial intelligence. Especially in the movie 'Iron Man' Inspired by the amazing features of the AI assistant Jarvis, I realized my dreams and passion.

We wanted to develop innovative technology born from the edge. These dreams and passion led me to take on a challenge. Over the past five years, I have continuously acquired knowledge in various fields and developed practical skills through practical projects. He wanted to prove his abilities. In this process, I can We worked tirelessly to achieve amazing results.

The ArcOne system is the result of this effort and passion. This system models the principles and structure of the human brain and imitates and extends human intelligence by integrating and interacting with various functions.

aims to do so. ArcOne includes a variety of functions including motor, language, production, vision, hearing, thinking, automation, retrieval, association, interpretation, mathematics, improvement, imitation, speech, hacking, memory, etc. These features interact to perform a variety of tasks, providing flexibility and Designed to maximize efficiency.

The ArcOne system is the tool that allows me to channel my hard work and passion into bigger dreams. Now I am ready to realize my vision and goals through this system. ArcOne will play an important role in driving my innovation and change, and will be a bright light for my future. ArcOne allows me to We will express our passion to the world and create a better future.

2 Actual test results for this model

2.1 The first test to perform multiple tasks simultaneously like a human

This model is built on the principles of how humans perform tasks. Therefore, models perform tasks in the same way as humans. Here's an example test for this:

In just 4 minutes, I summarized the paper in Yolo v9, wrote the paper as a ppt, first translated it from English to Korean, and then explained it to users through TTS in an easy-to-understand manner. The actual time taken is better, at 4 minutes. I believe that having a resource graphics card or a better AI chip will give you better performance, faster results, and allow you to perform more complex tasks faster, just like humans. The actual demonstration video is as follows:

https://www.youtube.com/watch?v=o5PL-KXvYQs&t=6s

The process for doing this is as follows: Commands are input from the user, and all necessary organs are judged and decided by the central brain.

The central brain (GPT4) judges and selects which organs are needed to recapitulate YOLOV9.

The selected institution is a language institution, and the paper is summarized through the language institution. After saving, it is immediately created as a PPT through the generator based on the saved summary. We then use a language agency to translate all results from English into Korean. Next, the Korean translation summary is read through a voice engine so that Korean users can understand it.

This process takes only 4 minutes and is shown in the video above. The reason I am writing this paper is because my goal is to further develop this model and ultimately create an AGI that can perform more complex and difficult tasks faster than humans. This requires a lot of capital and technology (AI semiconductors, etc.). I need it, but it's realistically difficult to secure it because I'm still a freshman in high school and I'm not from a wealthy family.

So, I wrote this in the hope that many people would read this paper, and that pioneers and great people in the AI industry would read this and take interest in me and receive some support.

And if we get that much capital and technology through sponsorship, we hope to be able to further develop this technology and do more things.

3 Overall structure of this model system

Arc One is comprised of 16 major organizations.

- 1. Movement organs
- 2. Language organ
- 3. Creation agency
- 4. Visual organs
- 5. Hearing organ
- 6. Thinking organ (central brain controls everything)
- 7. Automation agency
- 8. Search agency
- 9. Connected organizations
- 10. Interpretation agency
- 11. Math Institute
- 12. Improvement organization
- 13. Imitate institution
- 14. Voice organ
- 15. Hacking agency
- 16. Memory organ

Let's start by explaining each institution.

3.1 exercise organ

1. Movement organs

The motor organ is responsible for all movements necessary for interaction with the user. For example, it can link with a robot or drone to perform movements according to the user's commands, or imitate the user's movements in a virtual reality environment.

3.2 Language organ

2. Language organ

The language organ is responsible for processing and understanding text. Provides the ability to interpret and summarize sentences and translate them into other languages. It also analyzes the user's language input to create tasks and understands the user's emotions through sentiment analysis.

3.3 creation organization

3. Creation agency

Creation agencies are responsible for creating various types of content. You can create and edit content such as images, videos, audio, PPT, websites, games, etc. It also converts text to other formats, analyzes images and converts them to text, and more. It is also called an organ of creation because it can create anything upon completion of development. By using this, we expect to be able to create many things in the real world when linked with robots in the future.

3.4 Visual organs

4. Visual organs The visual organ is responsible for analyzing and processing images or videos. It provides functions such as object recognition, pattern recognition, and image editing to understand and utilize visual information.

User's emotions can also be recognized and analyzed through visual organs.

3.5 Hearing organ

5. Hearing organ The auditory organ is responsible for processing and understanding speech. It handles voice information by providing functions such as voice recognition, voice synthesis, and voice analysis.

3.6 Thinking organ

6. Thought organ The thinking organ is responsible for analyzing the user's commands and creating tasks. It also coordinates cooperation between other organs of the system, predicts future situations and prepares appropriate responses (like a central brain).

3.7 Automation agency

7. Automation agency The automation agency is responsible for managing and executing the automated tasks of the system. Automatically performs tasks at your commands and monitors the progress of the task. It automatically performs almost all tasks that can be done on a computer, including finding files, etc.

3.8 Search agency

8. Search agency Search agencies are responsible for searching and providing various information. We collect information through the Internet or search databases to provide users with the information they need (possible to cooperate with memory agencies).

3.9 Connecting organization

9. Connected organizations The connection agency is responsible for connecting and managing the system and external devices or services. It is responsible for linking with mobile phones, IoT devices, web services, etc., and exchanges and controls data according to user requests. This organ allows ArcOne's locomotion organ to control the robot.

3.10 Interpretation agency

10. Interpretation agency Interpretation agencies are primarily responsible for translation between programming languages. The programming code entered by the user is translated into another programming language, or the code in another language is translated into the user's desired programming language. This helps developers utilize a variety of programming languages.

3.11 mathematical institution

11. Math Institute Mathematical institutions are responsible for solving various mathematical problems. Perform mathematical calculations such as calculus, statistics, and linear algebra, and analyze data through mathematical modeling.

3.12 Improvement Agency

12. Improvement organization Improvement organizations are responsible for continuously improving the performance of the system. Utilize self-discovery and GPT-engineer technologies to analyze systems, develop better models, and improve performance through continuous learning. This organization allows models to evolve into AGI or ASI.

3.13 Imitation agency

13. Imitate institution

An imitation agency plays the role of imitating a specific behavior or occupation desired by the user. For example, it provides the ability to perform certain job tasks or automatically repeat the user's actions.

3.14 Voice organ

14. Voice organ The speech organ is responsible for processing and utilizing speech information. It supports voice conversations with users by providing functions such as voice recognition, voice synthesis, and voice analysis.

3.15 Hacking agency

15. Hacking agency Hacking agencies provide functions related to security and attacks. It detects security vulnerabilities in the system, takes security measures, and, if necessary, simulates hacking attempts to ensure the safety of the system.

3.16 Memory organ

16. Memory organ

The memory organ is responsible for recording and managing the contents of conversations and work history with the user. It searches and provides the necessary information according to the user's needs, and organizes and stores old memories when memory is insufficient. Plays a role in human memory

The capabilities that can be achieved through the cooperation of these many organizations will be explained in detail below.

4 Future and development expectations of this model system

4.1 Expected cases that will occur using this model in the future

Create paper summaries and presentations

When a user uploads a PDF file of a specific paper, the language agency summarizes the paper, and the production agency creates a PPT with the summarized content. The audio organization explains the summary in voice, and the automated organization uploads a presentation video to YouTube based on this. virtual reality training simulation

The motor and visual organs work together to create a virtual reality environment and provide simulations in which users train specific tasks. The voice organ provides training instructions by voice, and the thinking organ analyzes the user's feedback and revises the training plan. Multilingual chat bot

Language agencies and interpretation agencies collaborate to develop multilingual chat bots. When a user naturally inputs a language, the language agency understands it, and the interpretation agency translates it into another language and delivers it to the other person. automatic driving system

Visual and motor organs work together to develop autonomous vehicle systems. Vision-based sensors recognize the surrounding environment, and motor organs control the vehicle based on this. medical diagnostic assistance system

Speech and vision organs work together to develop a medical diagnosis assistance system. When a user describes a symptom by voice, the speech organ understands it, and the visual organ analyzes the medical image and provides diagnostic assistance information.

smart home automation

Connected organizations and automation organizations work together to automate the user's smart home. Controls connected devices according to user commands and automatically performs routine tasks. For example, you can follow the command "Put me into sleep mode" to adjust the lights, close the windows, and more. Text summarization and translation services

Language agencies and interpretation agencies collaborate to provide text summarization and translation services. Long text entered by users can be summarized to provide key content and translated into other languages as needed. Financial analysis and investment recommendations

A mathematical institute and a thinking institute collaborate to provide financial analysis and investment recommendation services. We analyze market trends through mathematical modeling and suggest an investment portfolio that matches your individual investment tendencies and goals. Video detection and anomaly detection

The visual and thinking organs work together to develop an image detection and anomaly detection system. By analyzing CCTV footage, we detect abnormalities and provide warnings and notifications so you can take necessary action. Music creation and synthesis

A production agency and a voice agency collaborate to provide music generation and synthesis services. It generates music of various genres based on user input and synthesizes music as needed to create new songs. artificial intelligence composer

The generation agency and the voice agency collaborate to develop an artificial intelligence composer. It creates the structure and melody of the music, adjusts the music according to user input, or creates new songs. patient monitoring system

Connecting organizations and thinking organizations collaborate to develop patient monitoring systems. By analyzing data collected from biometric sensors, we monitor the patient's condition and provide alerts and notifications so that emergency measures can be taken if necessary.

Natural language processing-based chatbot

Language organizations and automation organizations collaborate to develop chatbots based on natural language processing. It can understand and respond to user conversations to answer a variety of questions and perform tasks. For example, we may provide services such as checking schedules, providing weather information, or ordering food. AI assistant and schedule management

The thinking organ and the memory organ collaborate to provide AI assistant and schedule management services. It manages users' schedules and provides reminders to help them avoid forgetting important events. It can also learn the user's preferences and habits to suggest an optimized schedule. Automatic document creation and review

Creation agencies and language agencies collaborate to provide automatic document creation and review services. Depending on the user's request, various documents such as reports, emails, and contracts are automatically created, and a language agency reviews the documents to find and correct typos and grammatical errors. Smart agricultural management system

Connecting and visual institutions collaborate to develop a smart agricultural management system. Sensors detect the condition of crops, and a thinking organ analyzes them to suggest appropriate agricultural measures. It informs farmers of their status in real time and improves agricultural productivity. Learning assistant for children's education

Language organizations and production organizations work together to develop learning aids for children's education. The language agency answers users' questions, and the generation agency creates educational content to help children learn. For example, you could provide a guide to a science experiment or how to solve a math problem. urban traffic optimization system

Visual and automated organizations work together to develop an urban transportation optimization system. Monitor your city's traffic conditions in real time and use automation to optimize traffic flow and solve traffic jams. We provide users with traffic information to help them travel conveniently. Self-learning platform

Thinking and generating organizations collaborate to develop an autonomous learning platform. We provide customized learning content by analyzing the user's interests and learning goals, and monitor learning progress to suggest a personalized learning plan. Intelligent Logistics Management System

Connecting organizations and thinking organizations collaborate to develop an intelligent logistics management system. Sensor data is collected to monitor logistics and inventory status, and the thinking center analyzes it to optimize logistics processes. Reduce costs and improve service quality through efficient inventory management and delivery route optimization.

Also, many automated AI hacking terrorist attacks may occur around the world by using hacking agencies in this model. To prevent that, I will have to manage this model alone. So, if I fully develop this model with full investment and support, I will benefit from sharing the profits. Even if I give it to you, I don't plan on leaking the technology.

4.2 Humanoid revolution that will occur in conjunction with robots

If you combine humanoid robots with my model ArcOne, a humanoid revolution that goes beyond the industrial revolution will occur. Humanoid robots prefer Optimus to Tesla.

If Tesla's second-generation Optimus operates based on my model, I think it will eventually be a human-like robot that will perform tasks more efficiently and faster than humans, and will be used in many industrial fields in the future, with no practical work for humans to do.

I think the future will be very good because it is predicted that humans will be able to perform tasks at the same level as humans, but faster and more efficiently. From the beginning, my model was designed and developed with the thought and calculation that it could be combined with a humanoid robot and commercialized like a human.

As long as it is suitable for this model, I think it will be very easy to combine and use. Humans are spending more time at home, and my model combined with Optimus will handle all the repetitive work that humans had to do.

Therefore, I think that if this model is commercialized in the future and combined with humanoids like Optimus, there will be many changes in this world. Expect sponsorship or support from Tesla

4.3 Future that will happen in the future

I explained that when I designed this model, I created it with the idea of combining it with a robot. In addition, this model was designed to perform self-improvement so that it can develop to ASI (Artificial super intelligence).

Therefore, there are various things that will happen due to this model in the future.

Here, I will explain things that were not explained in the expected case. Using an imitation organ, you can automatically learn and imitate various occupations and think and act like those occupations. If this is used properly, humanoid robots such as lawyers, soldiers (who only carry out orders), and AI robot judges can make decisions directly and see the situation directly. Additionally,

they can imitate and learn many other jobs on their own. It is possible to utilize In addition, many cyber terrorism and crimes can occur through hacking agencies. Deepfakes through creation agencies are also becoming more sophisticated (models are improved to make them more sophisticated through improvement agencies).

Many crimes can occur, and the white hacking field that defends against them can also be used and developed in many ways.

I believe that there will be an era of automated AI humans that will replace everything that does not require jobs or humans.

You will be able to control many electronic devices all at once through a connecting organ, and with AI humanoids doing housework, you will have nothing to do at home.

The math institute used an open source model that is currently up to the high school level, and by using AI chips with sufficient specifications or sufficient supercomputers to learn further, I believe that it will eventually be possible to possess math abilities that exceed the intelligence of all humans, not college students or adults.

I think the reason why all of this is possible is because of constant and repetitive self-improvement through improvement organizations, so I will continue to develop myself and continue to raise my abilities.

The technology for improvement organizations is to use sef-discover and AI software engineer.

Then, I think we will continue to develop and reach superintelligence. Although this model is said to be very advanced, it also assists with all daily tasks. This makes it very usable, but the problem is that it requires a lot of capital and technical skills.

So, the ultimate goal is to write this paper and receive a lot of investment and support. There is also a self-reflection technology to make oneself aware of oneself. It is a technology that creates an ego by endlessly questioning oneself and making oneself aware of what one is. I think it will be included in this model and contribute to creating a true AGI. If you put this all in simple terms, everything becomes possible. Humans may not have to do anything.

I see this model as having endless potential for development, and I think it has the highest potential to become an AGI and is most similar to humans. If you are interested in this project, we ask for your generous investment and support. This concludes the presentation of the first thesis by a first-year high school student in Korea, a large-scale project spanning 5 years, and an explanation of the investment, technology, and future required for development. Since it is the first thesis, there are shortcomings. There's a lot, but I hope you found it interesting.

4.4 Current development progress and necessary technologies and support

Basically, no errors have occurred in this model at present. It is judged that there are no problems with the code, and although the dataset is still only about 30, gpt4 has good performance and works well. Due to financial issues, I plan to change to an open source language model such as llama soon.

Therefore, there is no reason or justification for reducing Open AI. We just need a base model that will be responsible for managing and managing each organization and deciding everything. For reference, I only use Python as the language. It's the most convenient.

I've studied more than 10 other languages, but I only know the basics of them all, and I have no plans to do so in the future. So please contact any company. I always welcome and await investment and sponsorship. Of course, I prefer Google DeepMind, but any company is welcome. For your information, if you come here to scam me, I won't leave you alone. Anyway, if you are interested in or would like to invest in this research and project, please contact me via email.

I'll end with the hope that someone like Jensen Huang will come to nvidia. The investment I need is technology.

I need capital, but I even need something like NVIDIA's new AI chip Blackwell. This model uses many different models, so it requires a lot of resources and very good specifications (each model uses open source)

The perfection of this model is 50 percent. Currently, the structure is complete and solid parts are managed, so that it is implemented properly as designed and more data cord sets are created. Please help me with a supercomputer-level AI chip that can run so many models. Please wait. I pray until the day Jensen Huang sends you.

back story The ArcOne AGI system was designed with inspiration from the principles of how the human brain and body organs work.

Each organization seeks to mimic various human abilities and functions, allowing it to perform various tasks and interact with users. The design of these systems seeks to mimic the way the human body and mind work, with the goal of building more flexible and efficient intelligent systems.

For reference, agency is all translated as organ. It was translated strangely. Organ is an abbreviation for organization. In the actual data set, the division is named organ.

I expect and hope for sponsorship and support from Tesla and Nvidia