

Attachment 2: Introduction to the World Conference on Artificial Consciousness (WCAC)

I. Conference Background

In the digital wave of the 21st century, with the rapid development of information technology and the rise of the digital economy, AI (Artificial Intelligence), as one of the main driving forces of the digital economy, is leading technological innovation and economic transformation on a global scale. In this era, we live in an environment constantly processing and interpreting vast amounts of Data, Information, Knowledge, and Wisdom. The key lies in whether this processing aligns with human Purpose and how it drives the development of the digital economy and societal digital transformation.

Against this backdrop, AI faces numerous challenges, such as data rights protection, algorithmic discrimination and bias, and intellectual property protection. These challenges impact not only digital services for individuals, businesses, and governments but also the sustainable development of society and the economy. The traditional DIKW (Data, Information, Knowledge, Wisdom) model appears insufficient in this rapidly changing digital environment. To better adapt to the needs of the digital age, the DIKWP (DIKW + Purpose) model has emerged, introducing the dimension of "Purpose" to drive the interaction and transformation between data, information, knowledge, and wisdom. The DIKWP model not only transforms originally subjective concepts into objective mathematical expressions but also provides a precise DIKWP semantic computation framework.

Within the framework of the DIKWP model, the rise of Artificial Consciousness (AC) represents a new stage of scientific and technological progress. AC integrates Wisdom and Purpose into the DIK foundation of AI, forming a more comprehensive DIKWP processing model. AI provides a solid foundation for AC, while AC opens new dimensions and higher goals for the development of AI. The core of AC lies in exploring how to integrate these high-level cognitive elements into AI systems to enhance cognitive capabilities and decision-making intelligence. This exploration is not only an in-depth inquiry into the nature of "consciousness" but also an attempt to better achieve value alignment and intent alignment, ensuring that the development of AI and AC aligns more closely with human values and purposes.

II. Conference Objectives

1. Advance Cutting-Edge Scientific Research

The conference will focus on the latest theoretical and technological advancements in Artificial Intelligence (AI) and Artificial Consciousness (AC), particularly in the fields of value alignment and intent alignment. Value alignment strives to ensure that AI systems' behaviors align with human ethical standards and values, thereby guiding technological development to harmonize with the ethics and morals of human society. Intent alignment focuses on understanding and realizing human goals and aspirations, ensuring that AI systems' decisions

and actions conform to users' true intentions. This research will not only bring new vitality and inspiration to the scientific community but also drive the development of the scientific frontier and foster the collision and integration of innovative thinking.

2.Explore Future Technological Development Directions

The conference will explore new research directions and application areas for AI and AC concerning value alignment and intent alignment. By sharing research findings and practical experiences, participants will be better able to understand and foresee the transformations that AI and AC may bring, and seize the initiative in technology R&D and application. These discussions will help define the future development paths of AI and AC and provide new perspectives and directions for technological innovation and application.

3.Promote Interdisciplinary Collaboration

To achieve value alignment and intent alignment in AI and AC, the conference will attract academic and industry experts from various fields worldwide, including computer science, Internet+, virtual reality, artificial intelligence, embodied intelligence and robotics, smart manufacturing, sociology, philosophy, cognitive science, neuroscience, psychology, computational psychology, cognitive neuroscience, education, medicine, finance, law, communication, and technology ethics. This interdisciplinary collaboration will help break down traditional knowledge barriers, promote exchange and integration between disciplines, and thereby catalyze novel research methods and perspectives.

4.Guide Public Understanding

As research into AI and AC deepens, the conference will, through open and transparent academic exchange and discussion, help the public understand the importance of value alignment and intent alignment in the development of AI and AC. This will promote correct public awareness and support for these fields and enhance public understanding and acceptance of AI and AC technological development.

5.Promote Discussion on Ethical and Social Issues

The development of AI and AC is not only a technical issue but also involves ethical and social concerns, such as data privacy, accountability, and employment impact. The conference will discuss how to achieve value alignment and intent alignment in the development of AI and AC to ensure that technological progress conforms to social justice and moral principles. These discussions will promote a deeper understanding of the ethical and social impacts of AI and AC development, helping to form more comprehensive and balanced viewpoints.

6.Co-hosting the International Artificial Consciousness Equipment Exhibition

Given that artificial consciousness plays the role of the "brain" for artificial intelligence, artificial consciousness will be an essential path towards Artificial General Intelligence. Starting from the third conference, and concurrently with each subsequent conference, WACA will specially organize the International Artificial Consciousness Equipment Exhibition to showcase advanced equipment and products in AI and AC. This provides a platform for manufacturers worldwide in the fields of AI and AC to present their AI and AC equipment.

Specific exhibition categories include, but are not limited to, the following: AI software and hardware equipment; virtual reality equipment; embodied intelligence and humanoid robots; brain and brain-inspired science equipment; psychological technology equipment; artificial consciousness equipment; other AI and AC related equipment and products, etc.

Through these objectives, the World Conference on Artificial Consciousness aims to provide a diverse and comprehensive perspective on the development of AI and AC, promote the responsible development of technology, and contribute to a more intelligent and harmonious future for society.

III. Significance of the Conference

The World Conference on Artificial Consciousness is not only a significant gathering for the scientific and technological community but also represents a 深思熟虑 (deeply considered) reflection on the future direction of Artificial Intelligence (AI) and Artificial Consciousness (AC). Against the backdrop of the digital age, the significance of this conference extends far beyond the technological field, touching upon social ethics, global cooperation, public understanding, and technological innovation across multiple levels.

1.Integration of Technological Development and Human Values

The conference emphasizes the core position of value alignment and intent alignment in the development of AI and AC, ensuring that technological progress not only follows principles of efficiency and functionality but also conforms to human ethical and moral standards. This integration is key to building a more intelligent and harmonious society.

2.Shaping the Social Development Path in the Digital Era

By exploring the applications of AI and AC in different fields, the conference aims to provide new ideas for social development in the era of the digital economy, from improving decision-making quality to optimizing resource allocation, thereby promoting the overall intellectualization process of society.

3.Fostering Interdisciplinary Innovation and Collaboration

Bringing together experts and scholars from multiple disciplines, the conference serves as an incubator for innovative thinking and research, promoting cross-domain integration and innovation in AI and AC technologies, and paving new paths for scientific and technological development.

4.Enhancing Public Understanding and Acceptance of AI and AC

Through education and open discussion, the conference is committed to raising public awareness of AI and AC technologies, reducing misunderstandings and fears about these advanced technologies, and promoting their acceptance and application in society.

5.Forming Global Ethical Standards for Technology

In the context of the rapid development of AI and AC, the conference plays a crucial role in establishing global ethical standards for technology and addressing the challenges posed by new technologies, helping the global community jointly face the opportunities and challenges of technological development.

In summary, the World Conference on Artificial Consciousness is not merely a forum for discussing advanced technologies but also a platform for examining how technology can integrate with human values, societal needs, and ethical standards. It holds profound significance for propelling human society towards a more intelligent and harmonious future.