Meeting Report: From Science Fiction to Reality, How Do Brain-Computer Interfaces Connect Artificial Intelligence and Human Intelligence?

"The Matrix in a sense depicts the ultimate goal of brain-computer interfaces: feeding a complete external virtual environment to the brain and interacting with it in both directions," said Li Yuanning, the tenure-track assistant professor of biomedical engineering and director of the Laboratory of Computational Cognition and Translational Neuroscience at ShanghaiTech University.

The Tianqiao and Chrissy Chen Institute (TCCI®) recently hosted an event themed "From Science Fiction to Reality – How Does Artificial Intelligence Integrate with Human Intelligence?" in the East Hall of Shanghai Library.

At the event, Li Yuanning and Jiang Bo, a well-known science fiction writer and winner of the Galaxy Award and the Chinese Nebula Award, had a conversation from the viewpoints of science fiction and science respectively, and had a heated discussion about brain-computer interface (BCI), a technology that has gone from fiction to reality and has been attracting much attention from both academia and industry. They explored the infinite possibilities of integrating brain-computer interfaces with AI, and objectively expounded on the distance from imaginative breakthroughs to widespread application.

Brain science is the "last domain of natural science" and so little known about it is known to mankind, it is an everlasting fountain of inspiration for science fiction writers. Throughout the year, the Tianqiao and Chrissy Chen Institute (TCCI®) has been strengthening its efforts to promote "AI for Brain Science", with the purpose of encouraging the mutual inspiration and engagement between the AI and brain science sectors.

TCCI® has organized six academic conferences on the theme of AI for Brain Science to allow AI scientists, neuroscientists, clinicians, industrial experts, young students and scholars from universities to share relevant fundamental research advances and health-enhancing applications. The meetings attracted a total of 520,000 views from the general public and more than 800 expert attendees. TCCI® has also actively

organized popular science meetings under the same theme by inviting AI scientists and brain scientists to interdisciplinary conversations to stimulate the public's interest and exploration in these fields.

[Click here to read more on WeChat (Chinese)]