



Tianqiao and Chrissy Chen Institute Hosts Webinar to Explore the Opportunities and Challenges of Using AI Technology to Tackle Brain Disease

On April 9th, a webinar on how to employ AI technology to tackle brain disease was co-hosted by the Tianqiao and Chrissy Chen Institute (TCCI), Huashan Hospital (National Medical Center for Neurological Diseases) and Shanghai Mental Health Center (National Medical Center for Mental Disorders). During the meeting, experts from both the AI and clinical fields proactively exchanged ideas. Participants included Professor Ying Mao, President of Huashan Hospital and Director of TCCI Translational Center, Professor Yifeng Xu, Director of Brain Health Research Institute of National Medical Center for Mental Disorders, Professor Zhen Wang, Vice President of Shanghai Mental Health Center, and Professor Weidong Li, Executive Director of Institute of Psychological and Behavioral Sciences of Shanghai Jiao Tong University.

Dr. Pengwei Hu, an AI scientist, outlines three application scenarios for AI in the medical field: reducing the burden of repetitive labor, recognizing traces and clues that are difficult to detect manually, and performing cue analysis in complex environments. Professor Liang Chen, Deputy Director of the Neurosurgery Department, and Leader of Functional Neurosurgery at Huashan Hospital, focused on the construction of invasive EEG databases and the prospect of using enhanced AI technology to decipher brain functions. Professor Jintai Yu, Deputy Director of the Neurology Department of Huashan Hospital, and Leader of Cognitive Disorders of National Center for Neurological Diseases, pointed out the potential of GPT models in disease management, which is expected to play a key role in the field of Alzheimer's Disease. Professor Huan Yu, Executive Director of the Sleep Disorders Clinic of Huashan Hospital, introduced the application of dream research in the field of sleep disorders. Associate Professor Mengyue Wu from the Department of Computer Science and Engineering at Shanghai Jiao Tong University believed that the development of a human-machine, dialogue-based depression consultation robot and the use of speech and language features to construct a knowledge map of mental illnesses and corresponding symptoms are future directions for the early diagnosis and treatment of depression.

At the end of the conference, speakers and attendees had a profound discussion about the future development and application of artificial intelligence to address

brain disease.

