

Something New under the Sun - TCCI Hosts International Forum on Neurotechnologies that Connect Music with the Brain

November 29, 2022. Shanghai. On November 29th, the Tianqiao and Chrissy Chen Institute (TCCI) and the Shanghai Conservatory of Music co-hosted an International Forum on Neurotechnologies that Connect Music with the Brain. Leading scientists and musicians from China, United States, Germany, Britain, and Ireland shared their views on fundamental research related to music and the brain, music-based neuromodulation technologies and music therapy. The Forum attracted an online audience of over 300,000 people and the speakers answered selected questions from these participants. In addition, the speakers left their own questions for the community which require further discussion.



During the forum, Professor Robert T. Knight from UC Berkeley introduced the brain regions that govern language and music; Professor Scott Makeig from UC San Diego explained how music stimulates mood and emotion in the brain; Professor Pablo Ripolles from New York University shared the use of music in stroke rehabilitation; Dr. Indre Viskontas from University of San Francisco stated that music is not a homogeneous unity; Dr. Andrew Jackson of Newcastle University shared a project on brain-responsive music synthesis that manipulates neural oscillations; Dr. Tan Dun outlined the future of music in the metaverse; Dr. Xiangbin Teng from the Chinese University of Hong Kong explained the effects of music on the brain from the perspective of musical phrasing; Dr. Yue Ding of the Shanghai Mental Health Center presented research on the employment of music to intervene in anxiety disorders; Professor Yu Yang, Director of the Department of Music Engineering at Shanghai Conservatory of Music, shared the practical progress of music therapy experiments; Dr. Thomas Fritz from Max Planck Institute introduced the application of musical feedback in positive immersive experiences; and Dr. Alex Khalil from University College Cork shared his thoughts on musical neuromodulation and rhythmic perceptual variability.



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English Channel



Chinese Channel

