BrainCo's Bionic Hand Completes Torch Relay on International Sports Stage

Abington, Massachusetts Oct 10, 2025 (Issuewire.com**)** - At the opening ceremony of the 4th Asian Para Games, a global first was achieved as a brain-computer interface intelligent bionic hand completed the torch lighting ceremony, marking a historic moment where technology and sports converged. Chinese swimmer Xu Jialing, wearing the BrainCo intelligent bionic hand, served as the final torchbearer and successfully lit the cauldron with fluid and stable motions.

Xu Jialing, a multiple gold medalist at the Paralympics and World Championships, lost her left arm in an accident during childhood. During the opening ceremony, she controlled the BrainCo intelligent bionic hand through "intention" to accurately complete a series of movements including holding the torch, waving to the crowd, and leaning forward to light the cauldron. The bionic hand responded naturally and operated steadily, as if it were a natural part of her body. The entire process was smooth and seamless, demonstrating the maturity and reliability of brain-computer interface technology.

It is reported that the bionic hand was developed by BrainCo, leveraging non-invasive EEG signal capture and AI interpretation technology to achieve real-time, natural control by the user. For the torch relay mission, the technical team customized a personalized socket and self-locking joint system for Xu Jialing, effectively improving stump force distribution and enhancing control comfort and stability. After more than two weeks of targeted training and system adjustments, she became proficient in using the bionic hand to perform complex actions.

After learning that the technology had previously assisted in the Beijing Winter Paralympics torch relay,

the directing team decided to adjust the torchbearer order, moving Xu Jialing from the originally planned first leg to the critical final leg of the ignition ceremony. This change not reflected trust in her personal capabilities but also served as recognition and tribute to the application of brain-computer interface technology on an international sports stage.

The successful demonstration of BrainCo's intelligent bionic hand at this international sports event marks a significant milestone in the transition of brain-computer interface technology from the laboratory to practical application. It not only provides a new way for individuals with limb disabilities to restore motor functions but also demonstrates the great potential of technology to serve public good and promote inclusivity and innovation.

Media Contact

BrainCo

*********@brainco.cn

Source : BrainCo

See on IssueWire