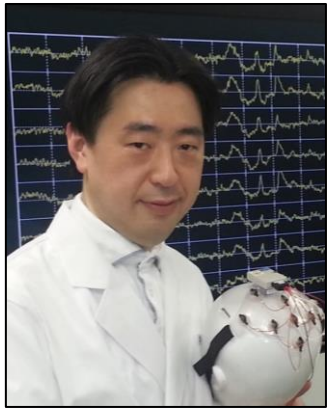
Realization of wellbeing by feedback based on psychological states evaluated by objective methods

R&D Project Title : Maintenance and improvement of brain health by brainwave-based brain training competition, "bSports"



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Summary : The purpose of this research and development is to maintain and improve the brain health of the older people and people with disabilities who have impaired motor function by repeatedly participating in cognitive training competitions “bSports” with real-time decoding of EEG data and their feedback. Brain training is considered to be effective for those people to prevent cognitive decline. It requires, however, quick and skillful operations by physical movements such as fingers. As a kind of Brain-Machine Interface (BMI) that directly connects the brain and the machine, we have developed a virtual switch “brain switch” that can be used for brain training system (“Neurotrainer®”). In this project, we plan to apply this system to “**bSports**” (brain training competition), and to verify the effects of improving cognitive function and facilitating social interaction, with specialists of preventive medicine and analysis of brain function in older people, in aging/depopulated areas such as Okumikawa Medical Valley in Aichi prefecture.