

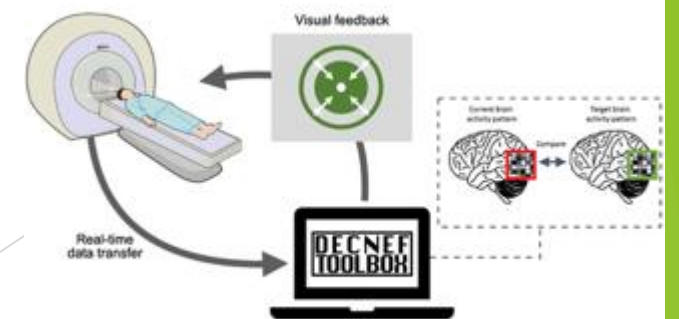
ATR TALK EXCHANGE

2026年 6月 18日 (木) 9:45~10:15

The DecNef toolbox: a software for real-time neurofeedback to better understand the brain

【ATR表彰 奨励賞受賞】脳情報研究所 研究員 Six Hugo

Decoded neurofeedback (DecNef) is a closed-loop functional magnetic resonance imaging (fMRI) technique that enables participants to produce target brain states in a non-conscious manner. In this talk, I present our efforts to develop comprehensive software for advanced fMRI preprocessing, machine-learning decoder model training, and real-time decoded neurofeedback experiments. This new toolbox enables researchers to conduct causal experiments in humans to better understand our cognitive mechanisms and find treatments for depression and fear-related disorders.

**ATR**

ともに究め、明日の社会を拓く