Imaging Detection of Cognitive Memory

Kazuhisa NIKI
Neuroscience Research
Institute
e-mail: k.niki@aist.go.jp
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The time-limited role of medial temporal lobe (MTL) in human long-term memory was revealed by fMRI. In this study, 9 subjects were scanned while asked to recall the places they visited more than 7 years ago (remote memories); and the places

they visited recently (recent memories). We observed robust and dominant left parahippocampal activation when recent memories were contrasted with remote memories.

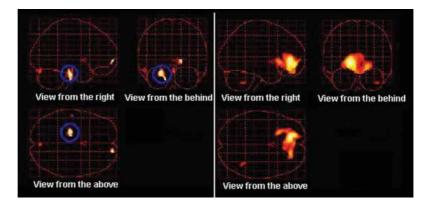


Figure Statistical parametric map (SPM) of regions showing a significant greater BOLD response. Results are presented as a maximum intensity projection or "Glass brain" in the contrast of Recent minus Remote memories (in left picture) and Remote minus Recent memories (in right picture)

Information and Communication Technology

Escape from Collision using Whole Arm Tactile Sensor

Takashi SUEHIRO

Intelligent System
Institute
e-mail:
t.suehiro@aist.go.jp

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Whole arm tictile sensing is very important for a robot which makes unexpected collision with its environment or human. We have developed a prototype of a whole arm tactile sensor system. It is attached to a forearm of a robot arm and has 72 sensing points. A new control method realizes task motion and escape motion simultaneously.





While the hands are positioned at same position, the robot arms escape from collision with human hand