frontiers
Research Topics

# Reaching and Grasping the Multisensory Side of Dexterous Manipulation

Frontiers in Psychology

In everyday life, we integrate multiple inputs from different sensory modalities to plan and control actions aimed at exploring the surrounding environment. These processes allow us, for instance, to transfer a cellphone from one hand to the other without dropping it, as well as to learn the use of a new tool. However, while psychophysical studies have provided evidence on how multisensory inputs are optimally integrated to create a coherent percept, it remains unclear how multiple sources of sensory information are coupled with motor commands to shape motor execution in dexterous tasks. The proposed topic aims to provide novel insights on the processes underlying the action performance in multisensory conditions. Authors are encouraged to submit papers regarding behavioral and neurophysiological exploration aimed at understanding the contribution of multisensory information in reaching, grasping and object manipulation actions in humans.

For more information:
psychology@frontiersin.org
fro.ntiers.in/wgrP

**TOPIC EDITORS**
Ivan Camponogara, New York University, Abu Dhabi, UAE
Luigi F. Cuturi, Italian Institute of Technology, Genoa, Italy
Simone Toma, Arizona State University, Tempe, US
Marco Santello, Arizona State University, Tempe, US