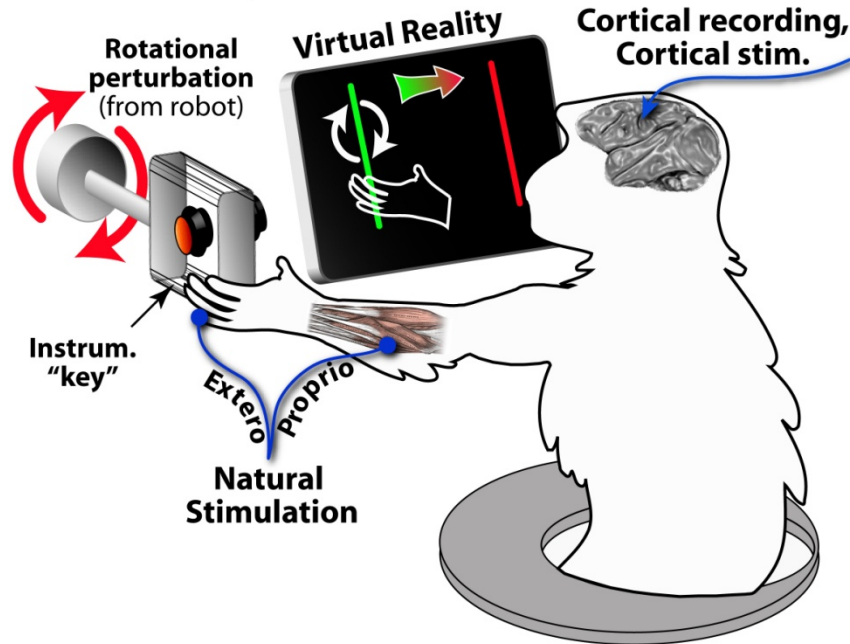
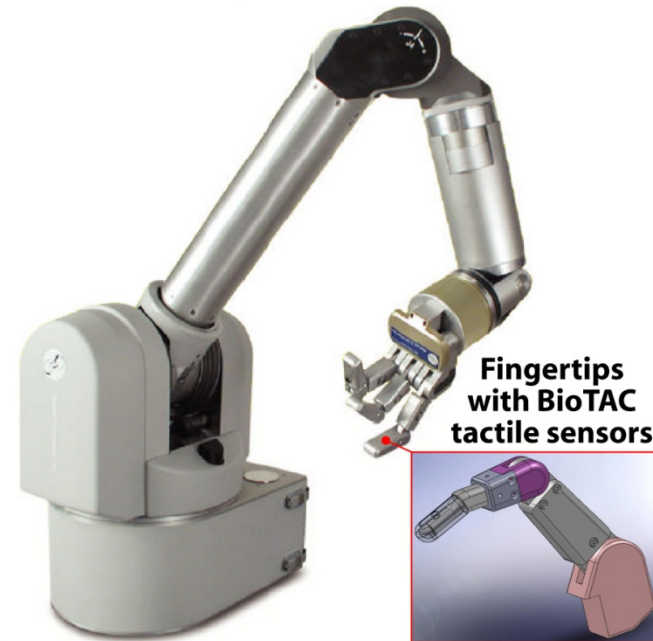


CPS challenges in human-machine interfaces: Context-dependent control of smart artificial hands through enhanced touch perception and mechatronic reflexes

a) Biological system



b) Artificial system



- 1) **Establish relationships b/n biological and artificial systems** (perception and control)
- 2) **Induce perception of tactile feedback** through cortical stimulation
- 3) Develop algorithms for **smooth, context-dependent transfers of authority** between biological and artificial systems