

Brain Computer Interface (see reference list)



Brain controlled wheelchair

Chosen approach:

Machine learning (statistics on the Bereitschaftspotential (BP) or Readiness Potential (RP) of the movement) to discover the individual EEG patterns characterizing the mental tasks users execute while learning to modulate their brainwaves in a way that will improve system recognition of their intentions

The key aspect of our brain-actuated robots is combining the subject's mental capabilities with the robot's intelligence.

The subject delivers a few high-level mental commands (for example, "Turn right at the next occasion"), and the robot executes these commands autonomously (agent) using the readings of its onboard sensors.