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Research in the Sensorimotor Control and Learning Lab (SCILL) uses state-of-the-art neuroimaging and non-invasive brain stimulation tools to understand the brain-behaviour relationship. Skilled motor actions can seem effortless.

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One of the more important facets of modern robotics is the notion of integrating the sensory perceptions experienced by an agent with its motoric capabilities—the actions it can perform—to...

### Learning sensorimotor control with neuromorphic sensors ...

Currently, the field has primarily investigated motor deficits and motor learning with limited consideration of the role of sensory information, even though it is recognized that integration of sensory information is a critical component of motor control (Borich et al., 2015; Bolognini et al., 2016).

### Putting the "Sensory" Into Sensorimotor Control: The Role ...

Classes of control used to optimize motor performance include predictive, reactive and biomechanical control. Processes of motor learning can be distinguished by the types of information that the...

### Principles of sensorimotor learning | Nature Reviews ...

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### Sensorimotor Control and Learning - James Tresilian - Bok ...

Frédéric Crevecoeur uses experimental and theoretical approaches to study how the nervous system processes sensory information and controls movements, which provides an open window into ...

### Neural bases of sensorimotor control

Sensorimotor learning is essential for daily behavior. It is used for maintaining known behavioral abilities and for learning new skills. For example, it is used to learn how to move a cursor on a computerscreen orto assign behavioral relevance to some arbitrary stimulus, such as the instruc- tion 'stop the car' when the traffic light is red.

### Neural basis of sensorimotor learning: modifying internal ...

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Define sensorimotor. sensorimotor synonyms. sensorimotor pronunciation. English dictionary definition of sensorimotor. adj. ... OTs here address different sensorimotor issues and their role in the learning process. ... (2004, 2005a,b, 2006), who established a functional dissociation between associative and sensorimotor ...

### Sensorimotor - definition of sensorimotor by The Free ...

Deep Learning Networks and Sensorimotor Control August 08, 2017 Professor John Doyle and colleagues are among only nineteen groups in the United States to receive National Science Foundation (NSF) funding to conduct innovative research focused on neural and cognitive systems.

### Deep Learning Networks and Sensorimotor Control

Humans, like other animals, have the ability to constantly adapt to new situations. Researchers have utilized a mouse model to reveal which neurons in the brain are in command in guiding adaptive ...

### Reprogramming brain cells enables flexible decision-making ...

SCI is an injury to the spinal cord that may affect motor, sensory and autonomic function often resulting in paralysis, loss of sensation, and autonomic dysfunction (such as blood pressure ...

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