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Sensorimotor control

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and learning: an
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Research in the
Introduction To
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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Sensorimotor control is the emergent property that describes the interaction between sensory-perceptual (e.g..... visual, haptic) and coordinative (e.g. motor planning) processes required

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Currently, the field
has primarily
investigated motor
deficits and motor
learning with limited
consideration of the
role of sensory
information, even
though it is

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recognized that integration of sensory information is a critical component of motor control (Borich et al., 2015; Bolognini et al., 2016). Furthermore, evidence has shown that sensory input is important for recovery after stroke.

Putting the

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~~“Sensory”~~ Into
Sensorimotor
~~Learning An~~
~~Control: The Role ...~~
Introduction To
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

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sensorimotor control
with neuromorphic
sensors ...

The major role of
facial MI is in the
initiation, control,
and execution of
orofacial movements,
but it also may
contribute to the
learning of new

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motor skills and the
adaptation to altered
sensory inputs, such
as might occur with
changes to the dental
occlusion through
loss of teeth, dental
restorations,
orthodontically
induced tooth
movement, etc. (see
Avivi-Arber et al.
2011). Through the
direct and indirect

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treatment of sensory and motor processes, reflecting the latest research trends in both neuromotor control and the perceptual sciences.

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Sensorimotor learning refers to improvement,

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through practice, in the performance of sensory-guided motor behavior. Here we will focus primarily on learning studies of the hand and arm in humans. Based on our own scientific leanings and limited space for this review, we chose to neglect learning with eyes and legs.

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~~Human sensorimotor
learning: adaptation,
skill, and beyond ...~~

Integration of
sensory and motor
information is one-
step, among others,
that underlies the
successful production
of goal-directed hand
movements
necessary for
interacting with our

Access Free Sensorimotor environment.

Disruption of
sensorimotor
integration is
prevalent in many
neurologic disorders,
including stroke. In
most ...

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

Sensory systems with
similar coding

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principles may share similar mechanisms when it comes to learning and multimodal sensory integration. The MB is a center for integration of multimodal sensory information. Thus, our model can be extended to incorporate input from different

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program for
sensorimotor control
during...

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learning emphasize
two kinds of learning-
related changes in
sensorimotor

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chunking and
increasing conscious
control of the learned
sensorimotor
response. B)
transferring the
neural control of the
learned sensorimotor
response to lower
levels of the CNS and
increasing conscious
control of it.

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Flashcards | Quizlet
A significant amount
of research and
development has
gone into creating
sophisticated
prosthetic limbs and
learning how to
effectively control
them. ... in prosthesis
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~~Sensory stimulation
improves perception
of phantom limbs ...~~

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

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