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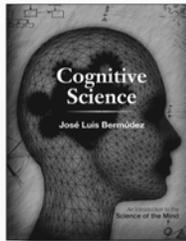
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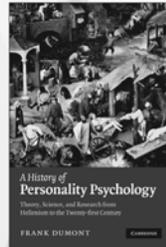
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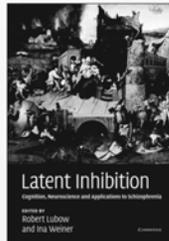


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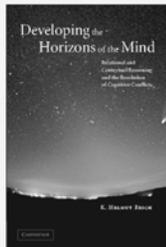


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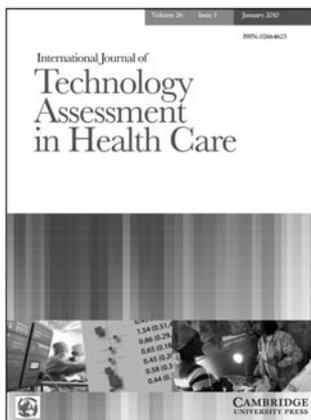
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Précis of *Doing without Concepts*

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To appear in upcoming issues

Neural re-use: A fundamental organizational principle of the brain

Michael L. Anderson, *Franklin & Marshall College and University of Maryland*

An emerging class of theories concerning the functional structure of the brain posits that neural circuits established for one purpose are commonly exapted (exploited, recycled, redeployed) during evolution or normal development and put to different uses, often without losing their original functions. This suggests a functional architecture in which the neural structures that support high-order cognitive tasks are composed from sets of low-level circuits that are frequently and widely shared among many different high-level neurofunctional structures. The idea has implications for evolution, development, localization, cortical parcellation, medical rehabilitation, and machine interface design, among other topics.

The Simulation of Smiles (SIMS) model: Embodied simulation and the meaning of facial expression

Paula M. Niedenthal, Martial Mermillod, *Centre national de la recherche scientifique and the University of Clermont-Ferrand, France*, Marcus Maringer, *University of Amsterdam*, and Ursula Hess, *Humboldt-Universität Berlin*

Theories of embodied cognition have motivated an explosion of research in psychology and the neurosciences on the processing of facial expression of emotion. Still unclear is how the component processes of emotion and their neural mechanisms support embodied simulation, and what triggers its occurrence. We examine the roles of the brain's reward systems, amygdala, somatosensory cortices, and motor centers in recognizing and interpreting smiles, and we integrate these with research on facial mimicry and eye gaze. A model of the processing of the smile is presented as a means to advance the application of theories of embodied cognition in the study of facial expression of emotion more generally.

Person as Scientist, Person as Moralist

Joshua Knobe, *Yale University*

It has often been suggested that people's ordinary capacities for folk psychology and causal cognition make use of much the same methods one might find in a formal scientific investigation. A series of recent experimental results offer a challenge to this widely held view, suggesting that people's *moral* judgments can influence the intuitions they hold both in folk psychology and in moral cognition. The present target article argues that these effects are best explained on a model according to which moral considerations actually figure in the competencies people use to make sense of human beings and their actions.

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M. L. Anderson, "Neural re-use: A fundamental organizational principle of the brain"

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