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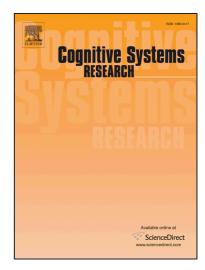
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## **ACCEPTED MANUSCRIPT**

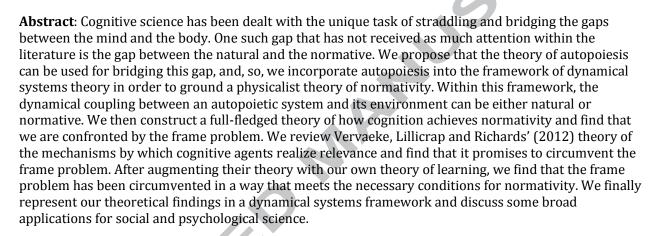
## Natural & Normative Dynamical Coupling\*

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#### 1. Introduction

Cognitive science is a unique field of science. Most other fields of science are able to maintain some *appearance* of philosophical neutrality. For example, Isaac Newton (1726 [1999], p. 943) infamously said of his work in physics, "I feign no hypotheses." When philosophers of science looked behind these appearances, though, they found that science made many of its own philosophical commitments (Duhem, 1914 [1954]). However, these commitments remain subtle, for the most part. Cognitive science is unique insofar as every cognitive scientific theory has to make glaringly obvious commitments with respect to what is probably the most famous and controversial problem in philosophy—the mind-body problem.

In order to do good cognitive science, therefore, we must state our philosophical commitments up front even before we state the problem that we wish to tackle and the method for solving it that we have chosen. Although cognitive science comes in many versions, most can agree, at least, that one of its primary goals is to find a naturalistic solution to the mind-body problem. The fundamental philosophical commitment made by cognitive science, therefore, is that the mind can be scientifically explained. Accordingly, a common strategy that cognitive scientists employ aims to "reverse-engineer" the causal structure of the mind based on its observed functionality (Chalmers, 2010; Dennett, 1991). While the phenomenal aspect of consciousness (i.e., qualia) tends to resist this functional analysis, the second philosophical commitment made by cognitive science holds that all other aspects of the mind (e.g.,

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