

Accepted Manuscript

Emotions and cognition

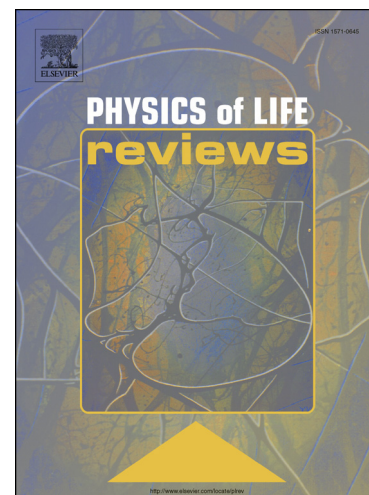
Sergey Ivanov

PII: S1571-0645(18)30036-8
DOI: <https://doi.org/10.1016/j.plrev.2018.02.004>
Reference: PLREV 982

To appear in: *Physics of Life Reviews*

Received date: 23 January 2018
Accepted date: 28 February 2018

Please cite this article in press as: Ivanov S. Emotions and cognition. *Phys Life Rev* (2018), <https://doi.org/10.1016/j.plrev.2018.02.004>



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Emotions and Cognition

Comment

on Physics of the mind: experimental confirmations of theoretical predictions, by

Felix Schoeller, Leonid Perlovsky, Dmitry Arseniev

Sergey Ivanov

The main problem of psychology is the absence of systematic methodology. Being divided into the humanitarian and natural-science, descriptive and explanatory, the system of psychological knowledge has not yet reached the stage of integral synthesis. There are many reasons for this, including the descriptive and computational complexity of models of thinking.

The main drawback of all existing theories is the locality of the explanation. Many phenomena in human nature are perceived as independent of each other. It is implicitly assumed that since a person has many different properties, there are many independent mechanisms that realize and cause them.

There are enough contradictory ideas about the relationship between emotions and consciousness [see Pessoa (2008)]. Construction of an adequate model requires a correct understanding of thinking. This motivated authors of (Schoeller et al, 2018) to unify the fields of psychology and artificial intelligence. First of all, using dynamic logic, as the most adequate and, apparently, corresponding to nature of human mind. The authors gave this approach qualitative and quantitative evaluation as well as experimental verification.

The authors considered the mathematical theory of mind, including instincts, emotions, concepts, behavior, cognition, language, intuition, and imagination; the opposition between the conscious and the unconscious, the instinct of knowledge and aesthetic emotions, the ability for symbols and meaning; consider evolutionary and cognitive functions of aesthetic emotions, musical emotions, and cognitive engineering algorithms. The review summarizes

Download English Version:

<https://daneshyari.com/en/article/8206864>

Download Persian Version:

<https://daneshyari.com/article/8206864>

[Daneshyari.com](https://daneshyari.com)