On the memory mechanism and coding principle of cognition

Zhi-gang LI[1] and Sha-sha LI[1]

[1]Affiliation not available

October 22, 2020

Abstract

Objective: To explore the memory mechanism and coding principle of cognition. Methods: Analysis, demonstrate (argument and proof), etc. That is., make full use of objective facts (relevant phenomena, relevant experimental results, etc) to explore the memory mechanism and coding principle of cognition. Results: Have discoveried the memory mechanism and basic coding principle of cognition on the basis of finding out the tropism of sensory activities and reactive activities, and have created a cognitive theory system. Conclusion: Normally, sensory activity has a focused/dominant tropism and reaction activity has a spread tropism. Human body can carry out menory activities only by the way of forming or opening up specific internuncial nerve pathway; that is to say, the mechanism for forming or opening up specific internuncial nerve pathway is the memory nerve mechanism of cognition. The basic principle to encode information with 'arraying and combining efferent nerve pathways' is matching/corresponding to this memory mechanism. The discovered mechanism and principle are completely consistent/accordant with the macroscopic and microscopic structural characteristics of nervous system and all the relevant facts. The methods of analyzing and integrating of all relevant facts can overcome the shortcomings and limitations of experimental methods.

Hosted file

`GANJUE-ENG11.DOC.DOC` available at https://authorea.com/users/369307/articles/488218-on-the-memory-mechanism-and-coding-principle-of-cognition