

FUNCTIONAL ORGANIZATION OF THE BRAIN AND MENTAL ACTIVITY: A VIEW AFTER LURIA (WITH LURIA)

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Neuropsychological theories and related technologies are products of historical events and eras. I will show and analyze the new neuropsychological scientific views after Luria (with Luria). Obviously, in Luria's time, there did not exist the current knowledge and technology. It is also clear that the goals of topographic diagnosis are now less interesting to most.

Current views on the functional organization of the brain and psychic activities are based on the following principles: (1) Biological hierarchies: emerging properties; (2) Knowledge: constructivist epistemology and social and cultural values; (3) Phylogeny and adaptation: evolutionary trends and levels of control; (4) Control of behavior: complex functional systems, (5) Brain systems: Three global networks: limbic, associative and sensory-motor.

It is proposed that the brain cortex, basal ganglia, and the cerebellum operate in parallel to generate adaptive behaviors. This provides the basis for understanding all types of behavior. Within the framework of this new model, the "complex functional system" concept is maintained.