

ARCHITECTURE OF MULTI-AGENT NEUROCOGNITIVE SYSTEM PROVIDING SEMANTIC REPRESENTATION OF MULTIMODAL IMAGES IN TECHNOLOGY OF MACHINE VISION

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This article represents a method for formalizing the semantics of natural language patterns based on the self-organization of multi-agent neurocognitive architectures. An architecture has been developed for creating conceptual agents that provide a semantic representation of images in a computer vision system.

The algorithm of image recognition and natural language understanding using multimodal interface is demonstrated.

Keywords: multi-agent system, natural language interface, image recognition, formal semantics, natural language understanding, intelligence system, neurocognitive architecture.

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