

## MULTI-AGENT SYSTEM FOR ASSESSING THE STATUS OF WEAKLY FORMALIZED SYSTEMS

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### ABSTRACT

In the article discussed a multi-agent system for assessing the status of poorly formalized system. Poorly formalized system consists of multiple agents interacting in a distributed mode. Achievement in the field of distributed artificial intelligence, the theory of intelligent agent technology and soft computing, makes it possible for these agents as components of complex systems interact to cooperate, compete with each other and coordinate their actions in order to develop a global behavior, poorly formalized systems.

**KEYWORDS:** The Theory of Fuzzy Sets, Fuzzy Logic, Multi-Agent Complex System, Weakly Formalized System, Decision-Making