

NARS Session talk

Name: Nady Slam

Title: A Decision-making Model under the Assumption of Insufficient Knowledge and Resource

Abstract: It is an important research topic in AI to construct a formal and explicit decision-making model for human's cognitive process and realize the computer implementation of the model. Some cognitive psychologists have proposed heuristic methods to describe human decision-making processes. **ISSUE:** however they have not received the attention of mainstream artificial intelligence. Therefore, classical decision-making theory is still often used to construct computational models for decision-making. On the other hand, although some researchers have proposed a heuristic-based decision-making model, they do not reflect the mechanism of the heuristic method, thus hindering the realization of its computational method. **METHODS:** In this paper, first we build a decision model based on the first six layers of NAL under the assumption of the insufficient knowledge and resources. Then we outline the preliminary implementation process the proposed model in the computer. **CONCLUSION:** This paper can provide theoretical and technical means for the cognitive process and computationalization of the decision-making in the real environment.

Outline: 1. Introduction; 2. Background; 3. Proposed model; 4. Case Analysis 5. Conclusion