

AISOW-AN INTELLIGENT SYSTEM ON THE WEB PHASE-1 GLORIA KNOWLEDGE REPRESENTATION AND LEARNING

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ABSTRACT

The goal of the project is to design conceptualize, conceive a system that is capable of possessing intelligence in the computational environment in which it is situated with natural language based interface for underlying hybrid service providing agent based and conventional computational system that will be the initial step towards the design of a system that can demonstrate intelligence comparable to other intelligence possessing system like humans or dolphins. The issues discussed in this initial effort are the non-situated objects. Natural Language based dialog and command dictating to the system and document understanding are the other issues discussed. The fundamental problem of knowledge representation is also discussed and the boost gained in representation and understanding by combining knowledge representation and learning is also discussed here. Furthermore what changes are required in the underlying architecture of the conventional system is also brought into light and the possible ways to make the system capable of being able to work in accordance with natural language interface can smoothly integrate with it. One of the various possible architectures of the system are discussed here and the implementation demonstrates the possibility of existence of such system with few features implemented actually in the system as it is initiation of the effort. The long term goal of this project which is the presence of intelligent interface to underlying computational resources on the world wide web and Internet in general and the change that can be brought by proper representation of information by combining knowledge representation and learning techniques as well as self (situated) understanding of the system are briefly discussed.

KEYWORDS: *Dialog and Command Dictating, Knowledge Representation and Learning*

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