A MAS IMPLEMENTATION FOR SYSTEM IDENTIFICATION AND PROCESS CONTROL

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ABSTRACT

In this paper, a MAS for system identification and process control is presented. In particular, this MAS implements a self-tuning regulator (STR) scheme. It has adopted FIPA specifications because they have become a stronger standard in MAS development and they involve not only agent language specifications but also agent management and conversations. In this work, an Ontology Agent (OA) is included, using DAML+OIL as ontology language. The obtained results validate this approach in the implementation of well-known algorithms for control process.

KeyWords: Multiagent systems, identification, process control.