USING FUZZY LOGIC IN AGENT PROGRAMING

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Fuzzy Logic looks to be the ideal tool for Software Agents to use. Since a Software Agent has many human characteristics ading fuzzy reasoning as one them is the thing to do. As we already know, every Agent has its own beliefs (knowleges about the outside world) some of which he can modify himself using diferent algoritms. The Agent with fuzzy capabilities would not only be able to interpret basic fuzzy knowlegde (i.e. "John is tall" 0.8). The idea is to add a fuzzy toolbox [1] which will allow the Agent to modify his beliefs by using fuzzy logic and a set of if-then rules. The implementation of the fuzzy toolbox will be done within the AJA tool. AJA tool is a tool which will (once its developed) will be used to generate Adaptable Agents and Multi-Agent Systems [2].

References

[1] G. Georgescu, A. Iorgulescu: *Pseudo-MV algebras*, to appear.

[2] , *AJA - A Language-Based Tool for the Development of Adaptable Java Agents*, Proc. of TARA 2000 Conference, (in print).