

Paper Review

Multiagent Systems: A Survey from a Machine Learning Perspective[2]

Joseph Anthony C. Hermocilla

July 27, 2009

1 Summary

Multiagent systems (MAS) is a relatively new area of research under Distributed Artificial Intelligence (DAI). The survey paper gave an introduction to MAS research by providing a taxonomy of MAS and discussing the issues and techniques associated with each classification from a machine learning perspective. The taxonomy presented is based on the degree of heterogeneity and degree of communication, rather than on the domain. The paper also described an example domain, Predator and Prey, which was used in the discussion of issues and techniques for each classification.

2 Evaluation

The survey paper is a good introduction to the field of Multiagent Systems research. An individual new in the field can easily follow the flow of the discussion. The presentation of issues and techniques encourages the reader to think of other ideas to improve existing approaches. Reference to existing and related works have been provided for further exploration of the field.

3 Syntesis

Multiagent systems research seems to be a promising area of research. Its distributed nature allows computations to be performed in parallel at the individual agent level. Each agent in a MAS can pursue its own goals but eventually the achievement of the individual(local) goal will contribute to the global goal.

References

- [1] Philip W. L. Fong. How to read a cs research paper?
<http://www2.cs.uregina.ca/~pwlfong/CS499/reading-paper.pdf>.
- [2] P. Stone and M. Veloso. Multiagent systems: A survey from a machine learning perspective. *Autonomous Robotics*, 2000.