



Faculty of Computer Science 2003-2004 Seminar Series

Cooperation, Collaboration, and Social Rationality in Agents

By

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Wednesday, February 25th, 2004

4:00 p.m.

ITC317

****Refreshments will be served at 3:30 p.m.****

This work is primarily concerned with evaluating the utility of cooperation and related socially rational behavior in Multiagent Systems (MAS). Various principles were studied including: rationality, game theoretic reasoning, agent communication methods, agreement reaching protocols such as negotiation and auction, and theory related to group work in general. An emphasis is placed on distinguishing the concepts of cooperation and collaboration in order better understand both. We present a theoretical description of these two concepts, and relate them to agents through the notion of social rationality. A traffic simulation is used to empirically investigate several related concepts. The traffic simulations are designed to highlight the effect of social rationality on traffic light controller agents.

STUDENTS ARE ENCOURAGED TO ATTEND
