

Symposium on Behaviour Regulation in Multi-agent Systems

<http://www.kcl.ac.uk/staff/oren/aisb>

1-2 April 2008, Aberdeen, Scotland
In conjunction with the AISB 2008 Convention

Overview

Multi-agent systems are a powerful problem solving paradigm, attacking a problem via the interactions of many discrete components. The interactions between agents provide the approach's strength, but they also pose a great challenge: detecting and preventing undesirable behaviour (and interactions between agents) is difficult. While the formal specification of allowable agent behaviour is possible, unintended effects and purposefully malicious agents mean that other approaches to regulating the behaviour of agents are needed. Techniques such as trust and reputation mechanisms and offline and online mechanism design (examples of which are social laws and machine interpretable contracts respectively) are able to regulate agent behaviour while allowing the agent to remain autonomous. While powerful, these techniques, and others, are still being refined, and many issues, including detecting and handling conflicting requirements, representation of permissible activities, and ways of monitoring and enforcing behaviour remain.

This symposium will be concerned with theories, methodologies, and computational issues related to regulating agent behaviour in multi-agent systems. Papers examining both theory and practise are welcome.

Topics

Areas of interest include, but are not limited to

- all aspects of automated contracting
- online and offline design of behaviour regulation mechanisms
- social laws
- behaviour specification
- behaviour monitoring
- failure detection
- normative decision making
- normative conflict resolution
- trust and reputation systems
- mechanism design
- sanctioning mechanisms

Important Dates

Note that these dates are fixed by the AISB conference:

Submission Deadline:	14 January 2008
Notification of Acceptance:	15 February 2008
Camera Ready Due:	TBA
Symposium:	1,2 April 2008

Publication

All papers from the AISB convention will be published in the AISB proceedings, with an ISBN number. We will further investigate the possibility of publishing the best papers in journal special issue or book form.

1 Additional Information

A “Best Student Paper” award will be given to the best student written paper submitted to the convention. The AISB will also fund three student scholarships. See <http://www.aisb.org.uk/convention/aisb08/scholarships.html> for further details.

Programme Committee

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