SEERC

Research Student Seminars

TUESDAY 29 JANUARY 2008
13:00 – 13:30

SEERC Seminar Room
SEERC Bldg

"Automated Detection of Herds: A fuzzy reasoner for detecting emergent herd formations in computer aided simulation of large bodied animals"
by

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PhD Student

ABSTRACT

Emergence, as a major property of complex systems, appears in a variety of systems. However due to its intrinsic complexity and the fact that it only appears at runtime it is still a scientific unknown. Consequently in recent years multiagent simulation has been proposed as method to increase the scientific understanding of emergent phenomena. In this context a vital part of the exploration of emergence is the ability to detect and quantify a manifestation of the phenomenon in the system under study. As part of a larger study, aimed to explore the causal relations in herd formations, this presentation discusses the investigation of a developed mechanism for automated detection of herds. The proposed solution is based on fuzzy reasoning module which incorporates both bottom-up and top-down phases in order to reason about different aggregations of animals.

The seminar series is open to all members of *staff* and *students* of CITY and to *public* that wish to attend.

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