

Welcome to

WABDS

@aamas03, Melbourne, 14th July

The 4th International Workshop on

MULTI AGENT BASED SIMULATION

2003

Introduction

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See <http://cfpm.org> and <http://www.davidhales.com>

- Short MABS FAQ – what's it all about?
- Brief history of MABS
- Quick overview of the schedule today with revised times

The MABS Organising committee are: David Hales, Juliette Rouchier, Emma Norling, Bruce Edmonds, Roberto Pedone

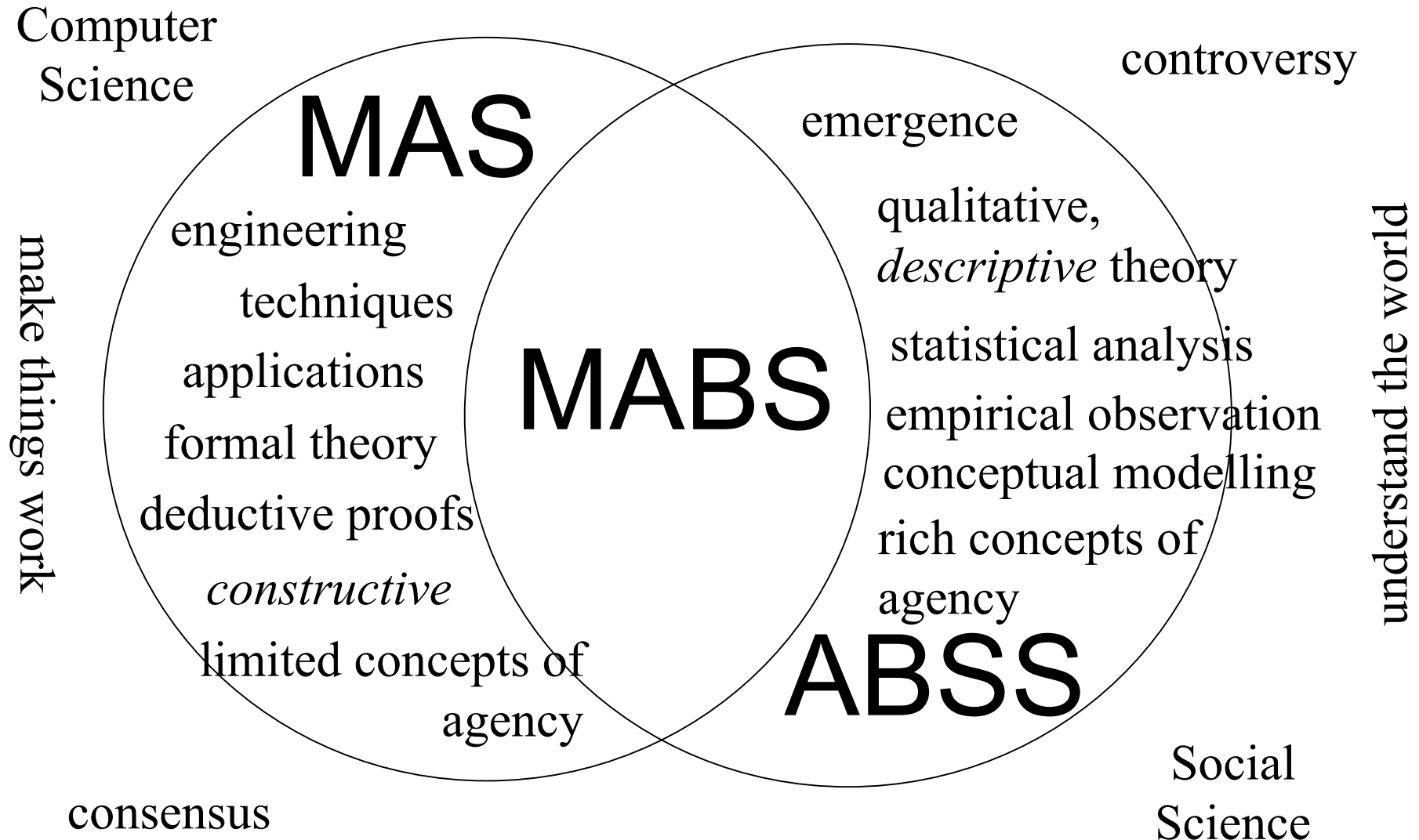
MABS FAQ

- Q.** Is MABS all about multi-agent systems engineering (MAS)? **A.** *No!*
- Q.** Is MABS all about agent-based social simulation (ABSS)? **A.** *No!*
- Q.** So what's it about? **A.** *MABS is about both MAS and ABSS – specifically it's about the overlap (where MAS informs ABSS and where ABSS informs MAS).*

MABS FAQ

- Q.** Why would MAS benefit from ABSS? **A.** *Because human and other naturally occurring societies appear to self-organise in a decentralised and fault tolerant way solving complex coordination problems (think of a city like Melbourne).*
- Q.** Why would ABSS benefit from MAS? **A.** *Because in order to understand naturally occurring societies and how they work we need to simulate them – the only currently available technology that can handle this complexity is MAS.*

MABS FAQ – a tale of two cultures



A Brief History of MABS

1. The first MABS workshop held in Paris at ICMAS 1998 – chaired by Nigel Gilbert (Surrey, UK).
2. The second MABS workshop held in Boston at ICMAS 2000 – chaired by Scott Moss (Manchester, UK).
3. The third MABS workshop held in Bologna at AAMAS 2002 – chaired by Jaime Sichman (Sao Paulo, Brazil).

All interesting and productive – all proceedings published and available from Springer

(see <http://cfpm.org/mabs2003> for more details)

Schedule Overview

1. *MABS Techniques for MAS*

Starting **next..** invited talk + 3 papers, chair: David Hales.

2. *Economics, Exchange and Influence in Virtual Worlds*

Starting **11:30am**, 4 papers, chair: Juliette Rouicher.

3. *MABS Techniques for Real World Modelling*

Starting **2:30pm**, 3 papers, chair: Emma Norling.

4. *General Discussion* (time permitting!)

Starting at **4:30pm**, “A killer application for MABS?”
(everyone should think of big questions and general observations and raise them here)

Breaks: Coffee (10-10:30am & 3-3:30pm), Lunch 1:30-2:30pm.

Revised Times - Morning

Session 1:

Next.. Invited talk – Giovana Di Marzo Serugendo

9:30am Paper – Foster McGeary et al.

10:00am to 10:30am coffee break

10:30am Paper – Keiki Takadama et al.

11:00am Paper – Fabien Michel et al.

Revised Times - Morning

Session 2:

11:30am Paper – Maria Ribeiro Rodrigues et al.

12:00am Paper – Shinji Tomita et al.

12:30am Paper – Inchiyo Takahashi et al.

1:00pm Paper – Ricardo Soa et al.

1:30pm to 2:30pm lunch break (at the latest)

In the unlikely event that we finish this session early then we may go to lunch earlier and come back earlier = more time for discussion session at the end of the day.

Revised Times - Afternoon

Session 3:

2:30pm paper - Nicolas Becu et al.

3:00pm to 3:30pm coffee break

3:30pm paper - Juliette Rouchier et al.

4:00pm paper - Noda Itsuki et al.

4:30pm Discussion

5pm(ish) finish

Evening... perhaps we can coordinate for dinner (if enough interested) will make announcement before we finish.

Invited Talk

Engineering Emergent Behaviour : A Vision

Giovana Di Marzo Serugendo

- Background in mathematics and computer science.
- Previously worked on mobile agent-based distributed systems and formal specifications using Petri-nets.
- Worked for European Organization for Nuclear Research (CERN), specification and simulation of data-acquisition systems.
- Currently based in Geneva University she leads a project on Engineering Self-Organising Applications (ESOA).
- Chairs ESOA workgroup of AgentCities.NET project.
- Is chairing the ESOA Workshop (W16) tomorrow!
- Also involved in using human-like notions of trust to produce self-configuring security mechanisms.