# 7th Conference on Logic and the Foundations of Game and Decision Theory (LOFT7)

University of Liverpool, United Kingdom, 13– 15 July, 2006

http://www.csc.liv.ac.uk/~loft06/

## General Chairs:

Giacomo Bonanno (Davis, USA)

Wiebe van der Hoek (Liverpool, UK)

Michael Wooldridge (Liverpool, UK)

### Programme Committee:

Thomas Agotnes (Bergen, Norway),
Johan van Benthem (Amsterdam,
Giacomo Bonanno, (Davis, USA),
Adam Brandenburger (New York, USA),
Hans van Ditmarsch (Otago, New Zealand),
Jelle Gerbrandy (Amsterdam, Netherlands),
Wiebe van der Hoek (Liverpool, UK)
Wojtek Jamroga (Clausthal-Zellerfeld, Germany),
Hannes Leitgeb (Bristol, UK)
Benedikt Lowe (Amsterdam, Netherlands),
Marc Pauly (Stanford, USA)
Andres Perea (Maastricht, Netherlands),
Gabriella Pigozzi (London, UK)
Wlodek Rabinowicz (Upsala, Sweden)
Hans Rott (Regensburg, Germany)
Krister Segerberg (Upsala, Sweden)

## AIMS OF THE CONFERENCE

This is the seventh in a series of conferences on the applications of logical methods to foundational issues in the theory of individual and interactive decision-making. The previous six conferences took place at CIRM (Marseille, France) in January 1994, at ICER (Torino, Italy) in December 1996, December 1998, July 2000 and July 2002, and in Leipzig in July 2004. The complete programs of the last five conferences are at

http://www.econ.ucdavis.edu/faculty/bonanno/LOFT.html

The aim of the LOFT conferences is to promote exchange across different disciplines. Preference is given to papers which bring together the work and problems of several fields, such as game and decision theory, logic, computer science and artificial intelligence, philosophy, cognitive psychology, mathematics and mind sciences. Among the topics of particular relevance are:

- Modal logics for games and protocols: epistemic and deontic logic, multi-agent logic, temporal logic, dynamic logic, probabilistic and multivalued logic, logic of belief revision.
- Foundations of game and decision theory: epistemic foundations of solution concepts, information processing and communication in games, belief formation and revision in games.
- Learning and information-processing models: economic aspects of information processing, learning in game-theoretic contexts, inductive learning and inductive decision making.
- Bounded rationality approaches to game and decision theory.

# Program LOFT7  2006

Liverpool, 13, 14 & 15 July 2006  (presenting author denoted by *)

## Thursday, 13 July

| | |
|---|---|
| 08:00-8:55 | Registration at Ashton building |
| 08:55-09:00 | Opening |

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| 09:00-09:50 | (Chair: Michael Wooldridge)<br>Invited speaker: Moshe Tennenholtz, Haifa, Israel.  Title: *Pre-Bayesian Games* |

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|---|---|
| 09:50 - 10:10 | Session 1A   : Egon van Baars*  and Rineke Verbrug<br>*Knowledge-Based Algorithm for Multi-Agent Communication* |

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|---|---|
| 10:10 - 10:40 | Coffee |

| 10:40 - 12:25 | |
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| | | 10:40 - 12:25 | 1B: Aggregation and Independence (Chair: Giacomo Bonanno) |
| 10:40 - 11:15 | Gabriella Pigozzi*  and Daniel Eckert<br>*Pareto Consistency in a Model-Based Perspective on Judgement Aggregation* |
| 11:15 - 11:50 | Fabrizio Cariani, Marc Pauly* and Josh Snyder<br>*Decision Framing in Judgement Aggregation* |
| 11:50 - 12:25 | Theo Janssen<br>*Independence and Hintikka Games* |

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| 12:25 - 13:30 | Lunch |

| 13:30 - 15:15 | |
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| 13:30 - 15:15 | 1C: Belief Revision (Chair: Gabriella Pigozzi) |
| 13:30 - 14:05 | Alexandru Baltag* and Sonja Smets<br>*Dynamic Belief Revision over Multi-Agent Plausibility Models* |
| 14:05 - 14:40 | Andrés Perea<br>*A Model of Minimal Probabilistic Belief Revision* |
| 14:40 - 15:15 | Eric Pacuit and Olivier Roy*<br>*Preference-Based Belief Dynamics* |

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| 15:15 - 15:45 | Coffee |

| 15:45 - 17:00 | |
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| 15:45 - 17:00 | 1D: Commitment and Change (Chair: Benedikt Löwe) |
| 15:45 - 16:20 | Sabine Döring<br>*Deliberation and Commitment* |
| 16:20 - 16:40 | Paul Weirich<br>*A Syntactic Treatment of Common Knowledge in Simultaneous-Move Games* |
| 16:40 - 17:00 | Fenrong Liu<br>*Preference Change and Information Processing* |

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| 18:00 - 19:30 | Reception at Metropolitan Cathedral |

**Friday, 14 July**

09:00-09:50     (Chair: Wiebe van der Hoek)
                Invited speaker: Jerôme Lang, Toulouse, France.
                Title: *Social Choice and Combinatorial Domains*

09:50 - 10:10   Session 2A   : Dov Gabbay, Gabriella Pigozzi* and Odinaldo Rodrigue
                *Belief Revision, Belief Merging and Voting*

10:10 - 10:40   Coffee

| 10:40 - 12:25 | 2B: Soloution Concepts (Chair: Giacomo Bonanno) |
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| 10:40 - 11:15 | Prashant Parikh*  and Robin Clark<br>*An Introduction to Equilibrium Semantics for Natural Language* |
| 11:15 - 11:50 | Paul Harrenstein * and Mehdi Dastani<br>*Effectivity and Noncooperative Solution Concepts* |
| 11:50 - 12:25 | Thomas Ågotnes*,  Wiebe van der Hoek, and Michael Wooldridge<br>*Towards a Logic of Social Welfare* |

(10:40 - 12:25)

12:25 - 13:30   Lunch

| 13:30 - 15:15 | 2C: (Un-)awareness (Chair: Michael Wooldridge) |
|---|---|
| 13:30 - 14:05 | Aviad Heifetz, Martin Meier*  and Burkhard Schipper<br>*A Canonical Model for Interactive Unawareness* |
| 14:05 - 14:40 | Oliver Board and Kim-Sau Chung, *Object-Based Unawareness* |
| 14:40 - 15:15 | Giacomo Sillari, *Models of Awareness* |

(13:30 - 15:15)

15:15 - 15:45    Coffee

| 15:45 - 16:25 | 2D: Unawareness and Equilibria (Chair: Thomas Ågotnes) |
|---|---|
| 15:45 - 16:05 | Aviad Heifetz, Martin Meier, and Burkhard Schipper*<br>*Unawareness, Beliefs and Games* |
| 16:05 - 16:25 | Emmanuel Tadjouddine*  and Frank Guerin<br>*Verifying Equilibria in Games of Complete and Perfect Information Represented by Presburger Formulas* |

(15:45 - 16:25)

16:25 - 16:35   Short break

| 16:35 - 17:30 | 2E: Belief Revision (2) (Chair: Thomas Ågotnes) |
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| 16:35 - 17:10 | Giacomo Bonanno<br>*Belief Revision in a Temporal Framework* |
| 17:10 - 17:30 | Antoine Billot, Jean-Christophe Vergnaud, and Bernard Walliser*<br>*Multiplayer Belief Revision and Accuracy Orders* |

(16:35 - 17:30)

19:15           Dinner at the Raquet Club.

**Saturday, 15 July**

09:00-09:50    (Chair: Giacomo Bonanno)
               Invited speaker: Adam Brandenburger, New York, USA
               Title: Correlation in games

09:50 - 10:25  Session 3A   : Benedikt Löwe, Eric Pacuit* and Andrés Perea
               *A Syntactic Approach to Beliefs in Games*

10:25 - 10:55  Coffee

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| 10:55 - 12:40 | 3B: Composite Strategies and Information Transfer (Chair: Ken Presting) |
| 10:55 - 11:30 | R. Ramanujam and Sunil Simon* <br> *Axioms for Composite Strategies* |
| 11:30 - 12:05 | Simon Huttegger* and Brian Skyrms <br> *Learning to Transfer Information* |
| 12:05 - 12:40 | Johan van Benthem, Jelle Gerbrandy* and Barteld Kooi <br> *Dynamic Update with Probabilities* |

10:55 - 12:40

12:40 - 13:45  Lunch

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| 13:45 - 14:40 | 3C: General Propositions and Algebraic Logics (Chair: Jelle Gerbrandy) |
| 13:45 - 14:05 | Mehrnoosh Sadrzadeh * and Corine Cîrstea <br> *Relating Coalgebraic and Algebraic Logics of Knowledge and Update* |
| 14:05 - 14:40 | Kenneth Presting * and Christopher Pynes <br> *General Propositions and Triviality* |

13:45 - 14:40

14:40 - 15:10  Closing and Coffee

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