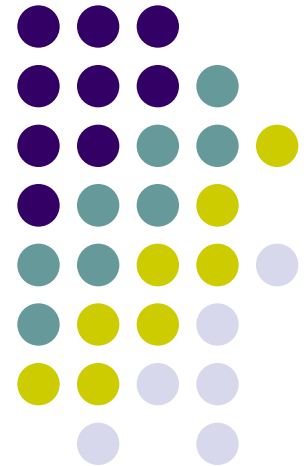


**Session 3:**  
**Semantics, Argumentation, Negotiation**  
Crete, 4 June 2010

 **cost Action IC0801**

*Francesca Toni*  
Imperial College London

<http://www.agreement-technologies.eu>





# Speakers

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- **Carlos Ivan Chesnevar** (Universidad Nacional del Sur):  
“Reasoning with Inconsistent Ontologies: An Argument-based Approach using DeLP”
- **Jérôme Euzenat** (INRIA):  
“Distributed semantics for distributed argumentation”
- **Elise Bonson** (Paris Descartes University):  
“A Protocol for Multiparty Argumentation among Focused Agents”
- **Jeff Z. Pan** (Univ. of Aberdeen):  
“Ontology Reasoning, Justification and Argumentation”
- **Robert A. Meersman** (Vrije Universiteit Brussel, STARLab)  
“Agreement Methodology and Technology for Social Semantics”

# Session 3:

## Semantics, Argumentation, Negotiation

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- Semantics for argumentation/negotiation
  - Reasoning with ontologies during/for the construction of arguments
  - Standards (e.g. AIF for argumentation)
    - Jerome Euzenat (distributed argumentation from networks of ontologies)
    - Jeff Pan (justification from ontology reasoning for argumentation)
- Argumentation/negotiation for semantics
  - Resolving inconsistency
  - Allignment
    - Carlos Chesnevar (DeLP for reasoning with inconsistent ontologies)
    - Robert Meersman (methodology for agreement)
    - Elise Bonson (multi-party argumentation)



# Jérôme Euzenat: "Distributed semantics for distributed argumentation"



## Abstract:

*Argumentation is usually a group process in which parties try to influence others. However, the typical argumentation frameworks that have been developed in artificial intelligence have focused on selecting arguments within individual argumentation frameworks and use the individually selected arguments to build a common consensus. In this talk we propose to deal with distributed argumentation based on the semantics we gave to networks of ontologies. Here, extensions of the distributed argumentation system are obtained from the product of extensions of the local argumentation framework. Adding constraints to this product may be used to further precise such a general semantics with regard to cooperation strategies or the logical implication of the argumentation results.*



# Carlos Ivan Chesnevar: “Reasoning with Inconsistent Ontologies: An Argument-based Approach using DeLP”



## Abstract:

*Standard approaches to reasoning with Description Logics (DL) ontologies require them to be consistent. However, as ontologies are complex entities and sometimes built upon other imported ontologies, inconsistencies can arise. In this paper, we present a framework for reasoning with inconsistent DL ontologies. Our proposal involves expressing DL ontologies as Defeasible Logic Programs (DeLP). Given a query posed w.r.t. an inconsistent ontology, a dialectical analysis will be performed on a DeLP program obtained from such ontology where all arguments in favor and against the final answer of the query will be taken into account.*



# Elise Bonson : “A Protocol for Multiparty Argumentation among Focused Agents”



## Abstract:

*When dealing with the exchange of arguments to arbitrate conflicting viewpoints put forward by different agents, it is certainly desirable that the outcome of the dialogue is not entirely predetermined from the initial situation. Agents should have a chance to influence the outcome of the game: they may strategize. This talk addresses a protocol of multiparty argumentation, in which several (more than two) agents focusing on a (unique) issue, exchange arguments in order to commonly decide the status of this argument. We study which outcomes can (or will be) reached with these dialogues.*

(work with Nicolas Maudet)



# Jeff Z. Pan: “Ontology Reasoning, Justification and Argumentation”

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Abstract:

*In this talk, I will briefly introduce ontology and show how ontology reasoning services, in particular justification service, can be used to support argumentation.*



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# Robert Meersman: “Agreement Methodology and Technology for Social Semantics”

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Abstract:

(with contributions by Christophe Debruyne)