Decalog 2007

Proceedings of the 11th Workshop on the Semantics and Pragmatics of Dialogue (SemDial 11)

> May 30 – June 1, 2007 Rovereto, Italy

> > edited by Ron Artstein Laure Vieu

Preface

We are happy to present Decalog 2007, the 11th workshop on the Semantics and Pragmatics of Dialogue, ten years after the inception of the series in 1997. This year's workshop continues the tradition of presenting high-quality talks and posters on dialogue from a variety of perspectives such as formal semantics and pragmatics, artifical intelligence, computational linguistics, and psycholinguistics. The appeal of the SemDial series is growing – this year we have seen interest from researchers in fields as diverse as language pedagogy, field linguistics, and sociology (unfortunately these people did not submit papers, mostly for technical reasons).

We received 32 submissions to the main session, and each was reviewed by two or three experts. We selected 19 talks for oral presentation (of which 17 will be presented); the poster session hosts many of the remaining submissions, together with additional submissions that came in response to a call for late-breaking posters and demos.

We are lucky to have four first-rate researchers on discourse and dialogue as invited speakers – Bruno G. Bara, Renato De Mori, Paul Piwek and Ipke Wachsmuth. They represent a broad range of perspectives and disciplines, and together with the accepted talks and posters we hope to have a productive and lively workshop.

We are grateful to our reviewers, who invested a lot of time giving very useful feedback, both to the program chairs and to the authors: Jan Alexandersson, Maria Aloni, Nicholas Asher, Anton Benz, Raffaella Bernardi, Patrick Blackburn, Johan Bos, Monica Bucciarelli, Craig Chambers, Marco Colombetti, Paul Dekker, Raquel Fernández, Ruth Filik, Simon Garrod, Jonathan Ginzburg, Joris Hulstijn, Elsi Kaiser, Alistair Knott, Staffan Larsson, Alex Lascarides, Colin Matheson, Nicolas Maudet, Philippe Muller, Fabio Pianesi, Martin Pickering, Manfred Pinkal, Matthew Purver, Hannes Rieser, Laurent Roussarie, David Schlangen, Amanda Stent, Matthew Stone, Enric Vallduvi, and Henk Zeevat.

This workshop would not have been possible without the generous support of CIMeC – the Center For Mind/Brain Sciences at the University of Trento; LUNA – the EU-funded project on Spoken Language Understanding in Multilingual Communication Systems; and ILIKS – the Interdisciplinary Laboratory on Interacting Knowledge Systems.

Many thanks to the local organization team in Rovereto, headed by Massimo Poesio and Alessia La Micela, who have invested an enormous amount of work and preparations to have the workshop run smoothly.

Ron Artstein and Laure Vieu

Colchester and Trento, May 2007

Contents

Wednesday talks	
Invited talk: Neuropragmatics: mind/brain evidence for communicative intentions Bruno G. Bara	7
A dialogue act based model for context updating	
Roser Morante, Simon Keizer and Harry Bunt	. 9
Incomplete Knowledge and Tacit Action: Enlightened Update in a Dialogue Game Luciana Benotti	
Push-to-talk ain't always bad! Comparing Different Interactivity Settings in Task-oriented Dialogue	. 17
Raquel Fernández, David Schlangen and Tatjana Lucht	. 25
Incorporating Asymmetric and Asynchronous Evidence of Understanding in a Grounding Model Alexandre Denis, Guillaume Pitel, Matthieu Quignard and Patrick Blackburn	
Towards Modelling and Using Common Ground in Tutorial Dialogue	
Mark Buckley and Magdalena Wolska	. 41
Managing ambiguities across utterances in dialogue	
David DeVault and Matthew Stone	. 49
Unifying Self- and Other-Repair	
Jonathan Ginzburg, Raquel Fernández and David Schlangen	. 57
Incremental Fragment Construal	66
Ruth Kempson, Andrew Gargett and Eleni Gregoromichelaki	. 03
Thursday talks	
Invited talk: Embodied Communication with a Virtual Human	
Ipke Wachsmuth	. 73
Annotating Continuous Understanding in a Multimodal Dialogue Corpus Carlos Gomez Gallo, Gregory Aist, James Allen, William de Beaumont, Sergio Coria,	
Whitney Gegg-Harrison, Joana Pardal and Mary Swift	. 75
A Chatbot-based Interactive Question Answering System	
Silvia Quarteroni and Suresh Manandhar	. 83
Towards Flexible, Domain-Independent Dialogue Management using Collaborative Problem	
Solving	
Nate Blaylock	. 91
Implementing the Information-State Update Approach to Dialogue Management in a Slightly Extended SCXML	
Fredrik Kronlid and Torbjörn Lager	. 99
Invited talk: Recent advances in spoken language understanding	
Renato De Mori	. 107
Coordinating on ad-hoc semantic systems in dialogue	400
Staffan Larsson	. 109

Friday talks	
Invited talk: Dialogue Games for Crosslingual Communication	
Paul Piwek, David Hardcastle and Richard Power	7
Francesca Foppolo	5
Incredulity Questions Ariel Cohen	
Group Dialects in an Online Community	-
Pat Healey, Carl Vogel and Arash Eshghi	1
Incremental understanding in human-computer dialogue and experimental evidence for advantages over nonincremental methods	
Gregory Aist, James Allen, Ellen Campana, Carlos Gomez Gallo, Scott Stoness, Mary	
Swift and Michael Tanenhaus	9.
Posters and demos	
A Game-Based Strategy for Optimizing Agents' Argumentation in Deliberation Dialogues	
Gemma Bel and M. Dolores Jiménez-López	5
The Fyntour Multilingual Weather and Sea Dialogue System	
Eckhard Bick and Jens Ahlmann Hansen	7
Dialog OS: an extensible platform for teaching spoken dialogue systems	
Daniel Bobbert and Magdalena Wolska	Ç
Complex Taxonomy Dialogue Act Recognition with a Bayesian Classifier	
Mark Fishel	1
Default preferences in donkey anaphora resolution	
Francesca Foppolo	3
Discourse Management in Voice Systems for Accessing Web Services	
Marta Gatius and Meritxell González	5
Adaptation of the use of colour terms in referring expressions	
Markus Guhe and Ellen Bard	7
A Platform for Designing Multimodal Dialogic and Presentation Strategies	
Meriam Horchani, Dominique Fréard, Eric Jamet, Laurence Nigay and Franck Panaget . 169	Ç
Adapting a Statistical Dialog Model for a New Domain	
Lluís F. Hurtado, David Griol, Encarna Segarra and Emilio Sanchis]
An empirical study on detection and prediction of topic shifts in information seeking chats	
Hiroshi Ichikawa and Takenobu Tokunaga	3
Collaboration in Peer Learning Dialogues	
Cynthia Kersey, Barbara Di Eugenio, Pamela Jordan and Sandra Katz	5
The BoB IQA System: a Domain Expert's Perspective	

Pilar Manchón, Antonio Ávila, David Ávila, Guillermo Pérez and Gabriel Amores 179

Christian Raymond, Giuseppe Riccardi, Kepa Joseba Rodriguez and Joanna Wisniewska 185

Semi-automated testing of real world applications in non-menu-based dialogue systems

The LUNA Corpus: an Annotation Scheme for a Multi-domain Multi-lingual Dialogue Corpus

Adapting Combinatory Categorial Grammars in a Framework for Health Care Dialogue Sys-

Enhancing System Communication through Synthetic Characters

Ambrosio: The MIMUS talking head