

ASPECTS OF SEMANTICS AND PRAGMATICS OF DIALOGUE

SemDial 2010, 14th Workshop on the Semantics and Pragmatics of Dialogue

Edited by
Paweł Łupkowski and Matthew Purver

POLISH SOCIETY
FOR COGNITIVE SCIENCE
POZNAŃ 2010

ASPECTS
OF SEMANTICS
AND PRAGMATICS
OF DIALOGUE

SemDial 2010, 14th Workshop on the Semantics
and Pragmatics of Dialogue

Edited by
Paweł Łupkowski and Matthew Purver

POLISH SOCIETY
FOR COGNITIVE SCIENCE
POZNAŃ 2010

ISBN 978-83-930915-0-8

This book contains papers presented at PozDial, the 14th edition of SemDial, which took place in Poznań, Poland, 16-18 June, 2010.

The SemDial Workshops aim at bringing together researchers working on the semantics and pragmatics of dialogue in fields such as formal semantics and pragmatics, artificial intelligence, computational linguistics, psychology, and neural science.

SemDial Workshop Series homepage: <http://www.illc.uva.nl/semDial/>

Acknowledgements

PROGRAMME CHAIRS

Matthew Purver (Queen Mary University of London)

Andrzej Wiśniewski (Adam Mickiewicz University in Poznań)

INVITED SPEAKERS

Dale Barr (University of Glasgow)

Jonathan Ginzburg (King's College, London)

Jeroen Groenendijk (University of Amsterdam)

Henry Prakken (Utrecht University, The University of Groningen)

PROGRAMME COMMITTEE

Ron Artstein (USC Institute for Creative Technologies), Nicholas Asher (CNRS Laboratoire IRIT), Luciana Benotti (INRIA Nancy Grand Est), Anton Benz (Syddansk University), Johan Bos (Università di Roma "La Sapienza"), Harry Bunt (Tilburg University), Donna Byron (The Ohio State University), Robin Cooper (Göteborg University), Paul Dekker (ILLC/University of Amsterdam), David DeVault (USC Institute for Creative Technologies), Jens Edlund (Royal Technical Institute (KTH)), Raquel Fernández (University of Amsterdam), Mary Ellen Foster (Heriot-Watt University), Claire Gardent (CNRS/LORIA), Jonathan Ginzburg (King's College, London), Eleni Gregoromichelaki (King's College London), Joakim Gustafson (Royal Technical Institute (KTH)), Peter Heeman (Oregon Health & Science University), Pat Healey (Queen Mary University of London), Anna Hjalmarsson (Centre for Speech Technology, KTH), Ruth Kempson (King's College London), Alistair Knott (University of Otago), Alexander Koller (Saarland University), Ivana Kruijff-Korbayova (Saarland University), Nicolas Maudet (LAMSADE, Univ. Paris-Dauphine), John Niekrasz (School of Informatics, University of Edinburgh), Stanley Peters (Stanford University), Ron Petrick (School of Informatics, University of Edinburgh), Martin Pickering (University of Edinburgh), Paul Piwek (The Open University), Massimo Poesio (University of Essex), Hannes Rieser (Bielefeld University), David Schlangen (University of Potsdam), Gabriel Skantze (Royal Technical Institute (KTH)), Mark Steedman (University of Edinburgh), Amanda Stent (Stony Brook University), Matthew Stone (Rutgers University), David Traum (ICT USC), Marilyn Walker (University of Sheffield)

LOCAL ORGANIZING COMMITTEE

Katarzyna Budzyńska-Nowacka (Cardinal Stefan Wyszyński University in Warsaw)

Maria Golka (Adam Mickiewicz University in Poznań)

Dorota Leszczyńska-Jasion (Adam Mickiewicz University in Poznań)

Paweł Łupkowski (Adam Mickiewicz University in Poznań)

Jerzy Pogonowski (Adam Mickiewicz University in Poznań)

Joanna Szwabe (Adam Mickiewicz University in Poznań)

Mariusz Urbański (Adam Mickiewicz University in Poznań)

ENDORSED BY

SIGSEM

SIGdial

© Copyright 2010 The publishers and the authors.

Printed from camera-ready manuscripts submitted by the authors.

Preface

The papers collected in this book cover a range of topics in semantics and pragmatics of dialogue. All these papers were presented at SemDial 2010, the 14th Workshop on the Semantics and Pragmatics of Dialogue. This 14th edition in the SemDial series, also known as PozDial, took place in Poznań (Poland) in June 2010, and was organized by the Chair of Logic and Cognitive Science (Institute of Psychology, Adam Mickiewicz University).

From over 30 submissions overall, 14 were accepted as full papers for plenary presentation at the workshop, and all are included in this book. In addition, 10 were accepted as posters, and are included here as 2-4 page short papers. Finally, we also include abstracts from our keynote speakers.

We hope that the ideas gathered in this book will be a valuable source of up-to-date achievements in the field, and will become a valuable inspiration for new ones.

We would like to express our thanks to all those who submitted to and participated in SemDial 2010, especially the invited speakers: Dale Barr (University of Glasgow), Jonathan Ginzburg (King's College London), Jeroen Groenendijk (University of Amsterdam) and Henry Prakken (Utrecht University, The University of Groningen).

Last but not least, we would like to thank everybody engaged in the workshop organization – the chairs, the local organizing committee for their hard work in Poznań, and the programme committee members for their thorough and helpful reviews.

Editors

Table of contents

PAPERS

Dialogue act models

Volha Petukhova, Harry Bunt and Andrei Malchanau
Empirical and theoretical constraints on dialogue act combinations 1

Alexander Koller, Andrew Gargett and Konstantina Garoufi
A scalable model of planning perlocutionary acts 9

Coordination

Gregory Mills and Eleni Gregoromichelaki
Establishing coherence in dialogue: adjacency, intentions and negotiation 17

David Schlangen
Practices in Dialogue 25

Incrementality

Okko Buss and David Schlangen
Modelling Sub-Utterance Phenomena in Spoken Dialogue Systems 33

Matthew Purver, Eleni Gregoromichelaki, Wilfried Meyer-Viol and Ronnie Cann
Splitting the 'I's and Crossing the 'You's: Context, Speech Acts and Grammar 43

Rational agents

Matthew Stone and Alex Lascarides
Coherence and Rationality in Grounding 51

Katarzyna Budzynska and Kamila Dębowska
Dialogues with conflict resolution: goals and effects 59

Erotetic logic

Mariusz Urbański and Paweł Łupkowski
Erotetic Search Scenarios: Revealing Interrogator's Hidden Agenda 67

Paweł Łupkowski
Cooperative answering and Inferential Erotetic Logic 75

Semantics

Staffan Larsson
Accommodating innovative meaning in dialogue 83

Robin Cooper
Generalized quantifiers and clarification content 91

Reference

Florian Hahn and Hannes Rieser
Explaining Speech Gesture Alignment in MM Dialogue Using Gesture Typology 99

Raquel Fernandez
Early Interpretation by Implicature in Definite Referential Descriptions 111

Table of contents

INVITED SPEAKERS

Dale Barr <i>On the distributed nature of mutual understanding</i>	119
Jonathan Ginzburg <i>Relevance for Dialogue</i>	121
Jeroen Groenendijk <i>Radical Inquisitive Semantics</i>	131
Henry Prakken <i>Argumentation in Artificial Intelligence</i>	133

SHORT PAPERS

Ellen Breitholtz <i>Clarification requests as enthymeme elicitors</i>	135
Jenny Brusk <i>A Computational Model for Gossip Initiation</i>	139
Nina Dethlefs, Heriberto Cuayahuitl, Kai-Florian Richter, Elena Andonova and John Bateman <i>Evaluating Task Success in a Dialogue System for Indoor Navigation</i>	143
Marta Gatus and Meritxell Gonzalez <i>Guiding the User When Searching Information on the Web</i>	147
Maria H. Golka <i>Semantics and pragmatics of negative polar questions</i>	149
Volha Petukhova and Harry Bunt <i>Context-driven dialogue act generation</i>	151
Joanna Szwabe and Anna Brzezińska <i>The Communicative Style of the Physically Disabled – a Corpus Study</i>	153
Thora Tenbrink and Elena Andonova <i>Communicating routes to older and younger addressees</i>	155
Marcin Włodarczak, Harry Bunt and Volha Petukhova <i>Entailed feedback: evidence from a ranking experiment</i>	159
Michael Wunder and Matthew Stone <i>Statistical Evaluation of Intention in Group Decision-making Dialogue</i>	163