Preface

DialWatt brings the SemDial Workshop on the Semantics and Pragmatics of Dialogue back to Edinburgh, where the sixth meeting - EDILOG - took place in 2002. The current edition of SemDial is hosted by Heriot-Watt University. The return to Edinburgh has given us opportunity to colocate SemDial with a number of other events, including RO-MAN 2014, the IEEE International Symposium on Robot and Human Interactive Communication, the RefNet summer school and workshop in Psychological and Computational Models of Language Production, and AMLaP 2014, the annual conference on Architectures and Mechanisms for Language Processing.

We received a total of 31 full paper submissions, 17 of which were accepted after a peer-review process, during which each submission was reviewed by a panel of three experts. We are extremely grateful to the Programme Committee members for their very detailed and helpful reviews. In response to the call for abstracts, we received a total of 34 abstract submissions describing ongoing projects or system demonstrations, of which 32 were accepted for poster presentation.

All accepted full papers and poster abstracts are included in this volume. The DialWatt programme features four keynote presentations by Holly Branigan, Jon Oberlander, Matthew Purver and Michael Schober. We thank them for participating in SemDial and are honoured to have them at the workshop. Abstracts of their contributions are also included in this volume.

DialWatt has received generous financial support from the EU FP7 PARLANCE project, the Scottish Informatics & Computer Science Alliance, and the School of Mathematical and Computer Sciences (MACS) at Heriot-Watt University which hosts the event, we are very grateful for this sponsorship. We have also been given endorsements by the ACL Special Interest Groups: SIGdial and SIGSEM.

Last but not least we would like to thank the following people for their tireless work, Arash Eshghi who helped with all aspects of the local organisation, Mary Ellen Foster our local events organiser, and Andy Taylor for developing and maintaining the website, as well as Christine McBride from the MACS school office.

August 2014
Edinburgh & Toulouse

Philippe Muller
Verena Rieser
Program Committee

Nicholas Asher  
Timo Baumann  
Luciana Benotti  
Nate Blaylock  
Holly Branigan  
Heriberto Cuayahuitl  
Valeria De Paiva  
Paul Dekker  
David Devault  
Arash Eshghi  
Raquel Fernández  
Victor Ferreira  
Kallirroi Georgila  
Jonathan Ginzburg  
Eleni Gregoromichelaki  
Markus Guhe  
Pat Healey  
Anna Hjalmarsson  
Amy Isard  
Simon Keizer  
Ruth Kempson  
Alexander Koller  
Staffan Larsson  
Alex Lascarides  
Pierre Lison  
Colin Matheson  
Gregory Mills  
Philippe Muller (chair)  
Chris Potts  
Laurent Prévot  
Matthew Purver  
Hannes Rieser  
Verena Rieser (chair)  
David Schlangen  
Gabriel Skantze  
Amanda Stent  
Matthew Stone  
David Traum  
Nigel Ward  

IRIT, CNRS  
Universität Hamburg  
Universidad Nacional de Cordoba  
Nuance Communications  
University of Edinburgh  
Heriot-Watt University  
University of Birmingham  
ILLC, University of Amsterdam  
USC Institute for Creative Technologies  
Heriot-Watt University  
University of Amsterdam  
UC San Diego  
University of Southern California  
Université Paris-Diderot (Paris 7)  
King’s College London  
University of Edinburgh  
Queen Mary, University of London  
Centre for Speech Technology, KTH  
University of Edinburgh  
Heriot-Watt University  
Kings College London  
University of Potsdam  
University of Gothenburg  
University of Edinburgh  
University of Oslo  
University of Edinburgh  
University of Edinburgh  
IRIT, Toulouse University  
Stanford University  
Laboratoire Parole et Langage  
Queen Mary University of London  
Universität Bielefeld  
Heriot Watt University, Edinburgh  
Bielefeld University  
KTH  
Yahoo! Labs  
Rutgers  
ICT USC  
University of Texas at El Paso
Contents

Invited Talks
Say as I say: Alignment as a multi-componential phenomenon .......................... 2
Holly Branigan
Talking to animals and talking to things ............................................................... 3
Jon Oberlander
Ask Not What Semantics Can Do For Dialogue - Ask What Dialogue Can Do For Semantics .......................... 4
Matthew Purver
Dialogue, response quality and mode choice in iPhone surveys .......................... 5
Michael Schober

Full Papers
Referring Expressions in Discourse about Haptic Line Graphs .......................... 7
Ozge Alacam, Cengiz Acarturk and Christopher Habel
A dynamic minimal model of the listener for feedback-based dialogue coordination .......................... 17
Hendrik Buschmeier and Stefan Kopp
Phrase structure rules as dialogue update rules .................................................. 26
Robin Cooper
Numerical expressions, implicatures and imagined prior context ........................ 35
Chris Cummins
Priming and Alignment of Frame of Reference in Situated Conversation ............... 43
Simon Dobnik, John Kelleher and Christos Kontaris
How domain-general can we be? Learning incremental Dialogue Systems without Dialogue Acts .......................... 53
Arash Eshghi and Oliver Lemon
Persuasion in Complex Games .......................................................................... 62
Markus Guhe and Alex Lascarides
Signalizing Non-speaker commitment in Transparent Free Relatives: A paired Speaker-Hearer judgment study. .......................... 71
Jesse Harris
Helping, I mean assessing psychiatric communication: An application of incremental self-repair detection .......................... 80
Christine Howes, Julian Hough, Matthew Purver and Rose McCabe
Analysis of the Responses to System-Initiated Off-Activity Talk in Human-Robot Interaction with Diabetic Children ................................................................. 90
Ivana Kruijff-Korbayova, Stefania Racioppa, Bernd Kiefer, Elettra Oleari and Clara Pozzi

Using subtitles to deal with Out-of-Domain interactions ........................................ 98
Daniel Magarreiro, Luísa Coheur and Francisco Melo

Generating and Resolving Vague Color References ............................................. 107
Timothy Meo, Brian McMahan and Matthew Stone

Learning to understand questions ........................................................................... 116
Sara Moradlou and Jonathan Ginzburg

Dynamic Intention Structures for Dialogue Processing ......................................... 125
Charles Ortiz and Jiaying Shen

Revealing Resources in Strategic Contexts .............................................................. 135
Jérémie Perret, Stergos Afantenos, Nicholas Asher and Alex Lascarides

Indirect answers as potential solutions to decision problems ............................... 145
Jon Stevens, Anton Benz, Sebastian Reuße, Ronja Laarmann-Quante and Ralf Klabunde

Credibility and its Attacks ...................................................................................... 154
Antoine Venant, Nicholas Asher and Cédric Dégremont

Poster Abstracts

MILLA A Multimodal Interactive Language Learning Agent .................................... 164
João Paulo Cabral, Nick Campbell, Sree Ganesh, Mina Kheirkhah, Emer Gilmartin, Fasih Haider, Eamonn Kenny, Andrew Murphy, Neasa Ní Chiaráin, Thomas Pellegrini and Odei Rey Orozko

Dialogue Structure of Coaching Sessions ............................................................... 167
Iwan de Kok, Julian Hough, Cornelia Frank, David Schlangen and Stefan Kopp

Getting to Know Users: Accounting for the Variability in User Ratings .................. 170
Nina Dethlefs, Heriberto Cuayahuitl, Helen Hastie, Verena Rieser and Oliver Lemon

Learning to manage risks in non-cooperative dialogues ...................................... 173
Ioannis Efstathiou and Oliver Lemon

The Disfluency, Exclamation, and Laughter in Dialogue (DUEL) Project ............. 176
Jonathan Ginzburg, David Schlangen, Ye Tian and Julian Hough

Hearer Engagement as a Variable in the Perceived Weight of a Face-Threatening Act .. 179
Nadine Glas and Catherine Pelachaud

Assessing the Impact of Local Adaptation in Child-Adult Dialogue: A Recurrence-Quantificational Approach ................................................................. 182
Robert Grimm and Raquel Fernández

First observations on a corpus of multi-modal dialogues ....................................... 185
Florian Hahn, Insa Lawler and Hannes Rieser

Towards Automatic Understanding of Virtual Pointing in Interaction .................. 188
Ting Han, Spyros Kousidis and David Schlangen
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Alternative Frameworks for Deploying Spoken Dialogue Systems to Mobile Platforms for Evaluation In the Wild</td>
<td>191</td>
</tr>
<tr>
<td>Helen Hastie, Marie-Aude Aufaure, Panos Alexopoulos, Hugues Bouchard, Heriberto Cuayahuitl, Nina Dethlefs, Milica Gasic, Almudena Gonzalez-Guimerans, James Henderson, Oliver Lemon, Xingkun Liu, Peter Mika, Tim Potter, Verena Rieser, Pirros Tsiakoulis, Yves Vanrompay, Boris Villazon-Terrazas, Majid Yazdani, Steve Young and Yanchao Yu</td>
<td></td>
</tr>
<tr>
<td>Disentangling utterances and recovering coherent multi party distinct conversations</td>
<td>194</td>
</tr>
<tr>
<td>Gibson Ikoro, Raul Mondragon and Graham White</td>
<td></td>
</tr>
<tr>
<td>Large-scale Analysis of the Flight Booking Spoken Dialog System in a Commercial Travel Information Mobile App</td>
<td>197</td>
</tr>
<tr>
<td>Zengtao Jiao, Zhuoran Wang, Guanchun Wang, Hao Tian, Hua Wu and Haifeng Wang</td>
<td></td>
</tr>
<tr>
<td>A Multi-issue Negotiation Model of Trust Formation through Concern Alignment in Conversations</td>
<td>199</td>
</tr>
<tr>
<td>Yasuhiro Katagiri, Katsuya Takanashi, Masato Ishizaki, Mika Enomoto, Yasuharu Den and Shogo Okada</td>
<td></td>
</tr>
<tr>
<td>Multimodal Dialogue Systems with InproTKs and Venice</td>
<td>202</td>
</tr>
<tr>
<td>Casey Kennington, Spyros Kousidis and David Schlangen</td>
<td></td>
</tr>
<tr>
<td>Producing Verbal Descriptions for Haptic Line-Graph Explorations</td>
<td>205</td>
</tr>
<tr>
<td>Matthias Kerzel, Ozge Alacam, Christopher Habel and Cengiz Acarturk</td>
<td></td>
</tr>
<tr>
<td>Effects of Speech Cursor on Visual Distraction in In-vehicle Interaction: Preliminary Results</td>
<td>208</td>
</tr>
<tr>
<td>Staffan Larsson, Simon Dobnik and Sebastian Berlin</td>
<td></td>
</tr>
<tr>
<td>Common Ground and Joint Utterance Production: Evidence from the Word Chain Task</td>
<td>211</td>
</tr>
<tr>
<td>Jaroslaw Lelonkiewicz and Chiara Gambi</td>
<td></td>
</tr>
<tr>
<td>Language-bound Dialogic elements in Computer-Mediated and Face-to-Face Communication</td>
<td>214</td>
</tr>
<tr>
<td>Barbara Lewandowska-Tomaszczyk</td>
<td></td>
</tr>
<tr>
<td>Studying the Effects of Affective Feedback in Embodied Tutors</td>
<td>217</td>
</tr>
<tr>
<td>Mei Yii Lim, Mary Ellen Foster, Srinivasan Janarthanam, Amol Deshmukh, Helen Hastie and Ruth Aylett</td>
<td></td>
</tr>
<tr>
<td>Towards Deep Learning for Dialogue State Tracking Using Restricted Bolzman Machines and Pre-training</td>
<td>220</td>
</tr>
<tr>
<td>Callum Main, Zhuoran Wang and Verena Rieser</td>
<td></td>
</tr>
<tr>
<td>Referential Grounding for Situated Human-Robot Communication</td>
<td>223</td>
</tr>
<tr>
<td>Vivien Mast, Daniel Couto Vale, Zoe Falomir and Mohammad Fazleb Elahi</td>
<td></td>
</tr>
<tr>
<td>Laughter in mother-child interaction: from 12 to 36 months</td>
<td>226</td>
</tr>
<tr>
<td>Chiara Mazzocconi, Sam Green, Ye Tian and Caspar Addyman</td>
<td></td>
</tr>
<tr>
<td>Initiative Patterns in Dialogue Genres</td>
<td>229</td>
</tr>
<tr>
<td>Angela Nazarian, Elnaz Nouri and David Traum</td>
<td></td>
</tr>
<tr>
<td>Towards Generating Route Instructions Under Uncertainty: A Corpus Study</td>
<td>231</td>
</tr>
<tr>
<td>Verena Rieser and Amanda Cercas Curry</td>
<td></td>
</tr>
<tr>
<td>SpeechCity: A Conversational City Guide based on Open Data</td>
<td>234</td>
</tr>
<tr>
<td>Verena Rieser, Srinivasan Janarthanam, Andy Taylor, Yanchao Yu and Oliver Lemon</td>
<td></td>
</tr>
<tr>
<td>Clarification Requests at the Level of Uptake</td>
<td>237</td>
</tr>
</tbody>
</table>