

# **9th SIGdial Workshop on Discourse and Dialogue 2008**

## **(SIGdial 08)**

**Held in conjunction with ACL-HLT 2008**

**Columbus, Ohio, USA  
19-20 June 2008**

**Editors:**

**David Schlangen**

**Beth Ann Hockey**

**ISBN: 978-1-61738-548-3**

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2008) by the Association for Computational Linguistics  
All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the Association for Computational Linguistics  
at the address below.

Association for Computational Linguistics  
209 N. Eighth Street  
Stroudsburg, Pennsylvania 18360

Phone: 1-570-476-8006  
Fax: 1-570-476-0860

[acl@aclweb.org](mailto:acl@aclweb.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

## Table of Contents

<i>Optimizing Endpointing Thresholds using Dialogue Features in a Spoken Dialogue System</i>	
Antoine Raux and Maxine Eskenazi .....	1
<i>Response-Based Confidence Annotation for Spoken Dialogue Systems</i>	
Alexander Gruenstein .....	11
<i>Learning N-Best Correction Models from Implicit User Feedback in a Multi-Modal Local Search Application</i>	
Dan Bohus, Xiao Li, Patrick Nguyen and Geoffrey Zweig .....	21
<i>Agreement and Disputes in Dialogue</i>	
Alex Lascarides and Nicholas Asher .....	29
<i>Reactive Redundancy and Listener Comprehension in Direction-Giving</i>	
Rachel Baker, Alastair Gill and Justine Cassell .....	37
<i>Semantic negotiation in dialogue: the mechanisms of alignment</i>	
Gregory Mills and Pat Healey .....	46
<i>Degrees of Grounding Based on Evidence of Understanding</i>	
Antonio Roque and David Traum .....	54
<i>Rapidly Deploying Grammar-Based Speech Applications with Active Learning and Back-off Grammars</i>	
Tim Paek, Sudeep Gandhe and Max Chickering .....	64
<i>Persistent Information State in a Data-Centric Architecture</i>	
Sebastian Varges, Giuseppe Riccardi and Silvia Quarteroni .....	68
<i>Speaking without knowing what to say... or when to end</i>	
Anna Hjalmarsson .....	72
<i>Learning Contrastive Connectives in Sentence Realization Ranking</i>	
Crystal Nakatsu .....	76
<i>What Are Meeting Summaries? An Analysis of Human Extractive Summaries in Meeting Corpus</i>	
Fei Liu and Yang Liu .....	80
<i>A Simple Method for Resolution of Definite Reference in a Shared Visual Context</i>	
Alexander Siebert and David Schlangen .....	84
<i>A Framework for Building Conversational Agents Based on a Multi-Expert Model</i>	
Mikio Nakano, Kotaro Funakoshi, Yuji Hasegawa and Hiroshi Tsujino .....	88
<i>From GEMINI to DiaGen: Improving Development of Speech Dialogues for Embedded Systems</i>	
Stefan Hamerich .....	92

<i>Quantifying Ellipsis in Dialogue: an index of mutual understanding</i>	96
Marcus Colman, Arash Eshghi and Pat Healey .....	
<i>Implicit Proposal Filtering in Multi-Party Consensus-Building Conversations</i>	
Yasuhiro Katagiri, Yosuke Matsusaka, Yasuharu Den, Mika Enomoto, Masato Ishizaki and Katsuya Takanashi.....	100
<i>Optimal Dialog in Consumer-Rating Systems using POMDP Framework</i>	
Zhifei Li, Patrick Nguyen and Geoffrey Zweig .....	104
<i>Training and Evaluation of the HIS POMDP Dialogue System in Noise</i>	
Milica Gašić, Simon Keizer, Francois Mairesse, Jost Schatzmann, Blaise Thomson, Kai Yu and Steve Young .....	112
<i>A Frame-Based Probabilistic Framework for Spoken Dialog Management Using Dialog Examples</i>	
Kyungduk Kim, Cheongjae Lee, Sangkeun Jung and Gary Geunbae Lee .....	120
<i>Speaking More Like You: Lexical, Acoustic/Prosodic, and Discourse Entrainment in Spoken Dialogue Systems</i>	
Julia Hirschberg .....	128
<i>Discourse Level Opinion Relations: An Annotation Study</i>	
Swapna Somasundaran, Josef Ruppenhofer and Janyce Wiebe .....	129
<i>Argumentative Human Computer Dialogue for Automated Persuasion</i>	
Pierre Andrews, Suresh Manandhar and Marco De Boni.....	138
<i>Modeling Vocal Interaction for Text-Independent Participant Characterization in Multi-Party Conversation</i>	
Kornel Laskowski, Mari Ostendorf and Tanja Schultz .....	148
<i>Modelling and Detecting Decisions in Multi-party Dialogue</i>	
Raquel Fernández, Matthew Frampton, Patrick Ehlen, Matthew Purver and Stanley Peters ...	156
<i>User Simulation as Testing for Spoken Dialog Systems</i>	
Hua Ai and Fuliang Weng .....	164
<i>Evaluation Understudy for Dialogue Coherence Models</i>	
Sudeep Gandhe and David Traum .....	172
<i>A Framework for Model-based Evaluation of Spoken Dialog Systems</i>	
Sebastian Möller and Nigel Ward .....	182
<i>The Effect of Dialogue System Output Style Variation on Users' Evaluation Judgments and Input Style</i>	
Ivana Kruijff-Korbayova and Olga Kukina .....	190
<i>Making Grammar-Based Generation Easier to Deploy in Dialogue Systems</i>	
David DeVault, David Traum and Ron Artstein .....	198