SEMDIAL 2018 AixDial

Proceedings of the 22nd Workshop on the Semantics and Pragmatics of Dialogue

Laurent Prévot, Magalie Ochs and Benoît Favre (eds.)

Aix-en-Provence, 8-10 November 2018



ISSN 2308-2275-

Serial title: Proceedings (SemDial)

SemDial Workshop Series

http://www.illc.uva.nl/semdial/

AixDial Website

 $\rm https://semdial.hypotheses.org/$

AixDial Sponsors













Preface

SEMDIAL, the Workshop on the Semantics and Pragmatics of Dialogue is taking place in Aix-en-Provence at the Laboratoire Parole et Langage (LPL) for its 22nd occurrence and become AixDIAL for this occasion. LPL being an interdisciplinary lab is extremely keen in receiving such a workshop combining experimental, corpus, computational and formal approaches of dialogue.

We received a total of 28 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. The poster session hosts 18 additional submissions that came in response to a call for late-breaking posters and demos. All accepted full papers and poster abstracts are included in this volume. The AixDIAL programme features three keynote presentations by Judith Holler, Olivier Pietquin and Michael Wagner. The later is a joint keynote with our joint event 'Prosody and Meaning in Aix'. We thank them for participating in SemDial and are honoured to have them at the workshop.

AixDIAL has received generous financial support from the Institute Language Communication and the Brain) (http://www.blri.fr/), Laboratoire Parole et Langage (http://www.lpl-aix.fr/), Laboratoire d'Informatique et des Systèmes (LIS) (http://www.lis-lab.fr/) and Institut Universitaire de France (http://www.iufrance.fr/). We are very grateful for this sponsorship.

Last but not least we would like to thank our local team from Laboratoire Parole Language headed by Stéphanie Desous, and everyone else who helped with all aspects of the organisation, including our Master and PhD students helpers.

> Laurent Prévot, Magalie Ochs and Benoît Favre November 2018

Programme Committee

Philippe Blache CNRS & Aix Marseille Université (LPL)

Harry Bunt Tilburg University

Heather Burnett CNRS-Université de Paris 7

Max Planck Institute for Psycholinguistics Sara Bögels Nancy University and ATILF-CNRS Mathilde Dargnat

Paul Dekker ILLC/University of Amsterdam

Emilie Destruel The University of Iowa

Benoît Favre Aix Marseille Université (LIS) Raquel Fernández University of Amsterdam

James German Aix Marseille Université (LPL) Université Paris-Diderot (Paris 7) Jonathan Ginzburg

Eleni Gregoromichelaki King's College London Julian Hough Bielefeld University Christine Howes University of Gothenburg

Julie Hunter Universitat Pompeu Fabra and Université Paul Sabatier

Amy Isard The University of Edinburgh Andrew Kehler University of California San Diego

Simon Keizer Heriot-Watt University Ruth Kempson Kings College London Staffan Larsson University of Gothenburg Alex Lascarides The University of Edinburgh Pierre Lison Norwegian Computing Center Ochs Magalie Aix Marseille Université (LIS)

Elin Mc Ready Dept. of English, Aoyama Gakuin University

Gregory Mills University of Groningen, Netherlands

Laurent Prévot Aix Marseille Université (LPL) Matthew Purver Queen Mary University of London

David Schlangen Bielefeld University

Gabriel Skantze KTH Royal Institute of Technology

Matthew Stone Rutgers University Ye Tian Amazon Alexa

Shu-Chuan Tseng Institute of Linguistics, Academia Sinica, Taiwan

Grégoire Winterstein Université du Québec à Montréal

Table of Contents

Invited Talks	
Multimodal pragmatics: language and the body in interaction	2
Guesswhat?! - Learning strategies for visually grounded dialogue	3
Toward a Bestiary of the Intonational Tunes of English	4
Full Papers	
Learning to describe multimodally from parallel unimodal data? A pilot study on verbal and sketched object descriptions	6
Laughter Repair	16
Chiara Mazzocconi, Vladislav Maraev and Jonathan Ginzburg	
Identifying, Classifying and Resolving Non-Sentential Utterances in Customer Support Systems Poulami Debnath, Shubhashis Sengupta and Harshawardhan Madhukar Wabgaonkar	26
Evaluating dialogue breakdown detection in chat-oriented dialogue systems	35
Multi-Task Learning for Domain-General Spoken Disfluency Detection in Dialogue Systems . Igor Shalyminov, Arash Eshghi and Oliver Lemon	45
Layered Semantic Graphs for Dialogue Management	54
Evaluating Subjective Feedback for Internet of Things Dialogues	64
Towards KoS/TTR-based proof-theoretic dialogue management	73
Multimodal Visual and Simulated Muscle Activations for Grounded Semantics of Hand-related Descriptions	83
Questions as Functions	93
Communicating an understanding of intention: Speech act conditionals and modified numerals in a Q/A system	
Reason questions with comment are expressions of an attributional search	112

Exploring Semantic Incrementality with Dynamic Syntax and Vector Space Semantics 122 Mehrnoosh Sadrzadeh, Matthew Purver, Julian Hough and Ruth Kempson
A Multi-Task Approach to Incremental Dialogue State Tracking
Learning to Buy Time: A Data-Driven Model For Avoiding Silence While Task-Related Information Cannot Yet Be Presented
Conversational types: a topological perspective
Towards a Categorization of Natural Language Variability in Data for Spoken Dialog Systems 167 Patricia Kittel, Wolfgang Maier, Maria Schmidt and Wolfgang Minker
Poster and Demo Papers
Coffee or tea? Yes
Linking topoi in argumentative dialogue to personae
Sentence meaning as argumentative dialogues
Disfluencies and Teaching Strategies in Social Interactions Between a Pedagogical Agent and a Student: Background and Challenges
Categorisation of conversational games in free dialogue over spatial scenes
An exploratory study on how the use of general lexical and linguistics information helps to predict the dynamic of speech rate in dyadic conversations
Real-time testing of non-verbal interaction: An experimental method and platform 200 Tom Gurion, Patrick G.T. Healey and Julian Hough
Building Common Ground in Visual Dialogue: The PhotoBook Task and Dataset 204 Janosch Haber, Elia Bruni and Raquel Fernández
Self-Repetition in Dialogue and Monologue
Concern-Alignment in Joint Inquiry for Consensus-Building
Processing open text input in a scripted communication scenario
Investigating Strategies for Resolving Misunderstood Utterances with Multiple Intents 21

Jakob Landesberger and Ute Ehrlich
Isolate if-clauses in dialogue 21 Eimear Maguire
Does Semantic Negotiation Predict Semantic Change?
What common ground between a human and a virtual agent? The case of task-oriented dialogues for breaking bad news
slurk – A Lightweight Interaction Server for Dialogue Experiments and Data Collection 22 David Schlangen, Tim Diekmann, Nikolai Ilinykh and Sina Zarrieß
MeetUp! A Task for Modelling Visual Dialogue
Towards unsupervised language models for QUD prediction