



International Speech Communication Association

Proceedings of ISCA Tutorial and Research Workshop

on

Experimental Linguistics

28-30 August 2006, Athens, Greece.

Edited by Antonis Botinis



University of Athens

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International Speech Communication Association
Tutorial and Research Workshop
on Experimental Linguistics
28-30 August 2006, Athens, Greece



University
of Athens,
Greece



University of Skövde,
Sweden



University of
Wisconsin-
Madison, USA

Call for Papers

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The general goals of the Workshop are to bring together researchers of linguistics and related disciplines in a unified context as well as to discuss the development of experimental methodologies in linguistic research with reference to linguistic theory, linguistic models and language applications.

The following disciplines are related to the Workshop:

- | | |
|--------------------------|-------------------------------|
| 1. Theory of Language | 9. Prosody |
| 2. Cognitive Linguistics | 10. Speech Perception |
| 3. Neurolinguistics | 11. Psycholinguistics |
| 4. Speech Production | 12. Pragmatics |
| 5. Speech Acoustics | 13. Semantics |
| 6. Phonology | 14. Discourse Linguistics |
| 7. Morphology | 15. Computational Linguistics |
| 8. Syntax | 16. Language Tecnology |

Submission of abstracts covering constituent elements and structures of lexicon, sentence and discourse, including basic linguistic categories such as segments, syllables, words, phrases and discourse units, are invited with reference to the aims of the Workshop.

The workshop will focus on the following major topics

- I. Lexicon
- II. Sentence
- III. Discourse

Committees

Home	Chair
Call for Papers	Antonis Botinis, University of Athens , Greece
Submissions	Co-chairs
Committees	Marios Fourakis, University of Wisconsin-Madison , USA Barbara Gawronska, University of Skövde , Sweden
Dates	Invited Speakers
Program	Artemis Alexiadou, University of Stuttgart , Germany David Caplan, Harvard University , USA George N. Clements, Lab phonologie et phonétique, Sorbonne Nouvelle, France Diane Kewley-Port, Indiana University , USA Anna Papafragou, University of Delaware , USA Joseph Perkell, Massachusetts Institute of Technology , USA Niels Schiller, University of Maastricht , The Netherlands
Proceedings	International Scientific Committee
Presentations	Mark Aronoff, Stony Brook University , USA Cinzia Avesani, University of Padova , Italy Gerard Bailly, Université Stendhal , France Robert Bannert, University of Umea , Sweden Mary Beckman, The Ohio State University , USA Hervé Boulard, IDIAP Research Institute, Switzerland Joan Bresnan, Stanford University , USA Luigi Burzio, Johns Hopkins University , USA Alan Cruse, The University of Manchester , UK Anne Cutler, Max Planck Institute, The Netherlands Carol Fowler, Haskins Laboratories, USA John Goldsmith, The University of Chicago , USA Carlos Gussenhoven, Radboud University Nijmegen , The Netherlands William Hardcastle, Queen Margaret University College , UK Julia Hirschberg, Columbia University , USA Ellen Kaisse, University of Washington , USA Robert Ladd, The University of Edinburgh , UK Anders Löfqvist, Haskins Laboratories, USA Bernd Möbius, University of Stuttgart, Germany Francis Nolan, University of Cambridge , UK John Ohala, Berkeley University of California , USA Mario Rossi, Université de Provence , France Jan van Santen, University of Oregon , USA Marc Swerts, Tilburg University , The Netherlands Jean Veronis, Université de Provence , France Gary Weismer, University of Wisconsin-Madison , USA
Venue	Organizing Committee
Accommodation	Aikaterini Bakakou-Orphanou, University of Athens , Greece Antonis Botinis, University of Athens , Greece Christoforos Charalambakis, University of Athens , Greece
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Presentations

Home	Guidelines for Oral Presentations
Call for Papers	The time slot for an oral presentation is 20 minutes, including discussion. A talk should, therefore, not exceed 15 minutes.
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Committees	The room for oral presentations will be equipped with a multimedia PC running Windows, which has a CD/DVD drive, Microsoft PowerPoint and Acrobat Reader available. You may bring your presentation on a CD or on a USB flash drive.
Dates	
Program	In case you have doubts about your presentation being properly displayed by the available equipment, please check it as soon as possible in the preparation room.
Proceedings	
Presentations	Guidelines for Posters (<i>optional</i>)
Venue	General Information
Accommodation	Poster sessions provide a more intimate forum for exchange than do regular paper presentations by facilitating informal discussions between presenters and their audience. Ideally, a well-constructed poster will be self-explanatory and free you from answering obvious questions so that you are available to supplement and discuss particular points of interest. Successful poster presentations are those which achieve both coverage and clarity.
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Secretariat	Title - Content
ISCA	<p>Each poster display should include the title and the name(s) of the presenter(s). It must be mounted at the top of the poster clearly written.</p> <p>Extensive, imaginative use of captioned illustrations, photographs, graphs or other types of visually appealing material is the point of a poster presentation. Lettering needs to be large enough to read from several feet away.</p> <p>Materials</p> <p>Suggested size for each poster is 180 X 120 cm (70.9 X 47.2 in) , but you may also create a smaller poster format.</p> <p>The Organising Committee of the Workshop will provide push pins and a display board. Please bring other materials you may need such as a tape or line level. You may find it useful to have on hand a tablet of sketch paper and suitable drawing materials to assist in your explanations to observers. Please note that it is not possible to write or paint on the poster boards.</p> <p>Location and Time</p> <p>Each poster is part of a session and will remain in place for 2 hours. For best results, please set up your poster presentation 15 minutes before the scheduled time. Plan on an exciting interaction with your "audience." Poster sessions are an innovative and challenging way for you to present your data and new ideas and to meet colleagues in a creative setting.</p>

Foreword

This volume includes the proceedings of the ISCA (International Speech Communication Association) Tutorial and Research Workshop on Experimental Linguistics held in Athens, Greece, 28-30 August 2006, under the auspices of the University of Athens, Greece, the University of Skövde, Sweden, and the University of Wisconsin-Madison, USA.

Our call had a significant appeal to the international scientific community and papers were submitted from different parts of the world. Thus, in accordance with the aims of the Workshop, the volume includes a variety of papers covering theoretical as well as experimental and interdisciplinary approaches. In addition to the merits of each and every paper, the ultimate objectives of the Workshop are to bring together scientists from different areas and boost interdisciplinary research and cooperation. A main issue for discussion is the use of experimental methodologies in order to produce linguistic knowledge. Another issue is the effect of each linguistic factor as well as the interactions between factors in relation to linguistic structures. A further issue is the relation between sound and meaning as a function of linguistic categories and structures.

We do not expect to have answers to many questions to be raised. However, we wish to approach language from different perspectives and discuss disciplinary methodologies and goals in relation to linguistic theory and linguistic knowledge at length. And, if more questions are to come along, that would be another cycle for renewed thoughts in the study of language. ISCA workshops and conferences are excellent opportunities for established as well as for young scientists to present their work at an international forum. Pursuing linguistic knowledge, we may face old problems in new ways and new problems in old ways. This cycle is necessarily based on the constant influx of young scientists who, equipped with experimental methodologies and laboratory expertise, may extend linguistic research beyond its current limits.

Our thanks to the contributors and the invited speakers Artemis Alexiadou, David Caplan, George Clements, Diane Kewley-Port, Anna Papafragou, Joseph Perkell and Niels Schiller as well as Anthi Chaida for the administration of the Workshop and the University of Athens for the publication of the present proceedings volume.

The Organising committee

Aikaterini Bakakou-Orphanou

Antonis Botinis

Christoforos Charalambakis

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ISCA Workshop on Experimental Linguistics

Program

SUNDAY 27	
18.00-20.00	REGISTRATION
MONDAY 28	
08.00-08.50	REGISTRATION
08.50-09.00	Opening session Welcome address Antonis Botinis
09.00-10.30	Oral session 1 Chair: Christoforos Charalambakis
09.00-09.30	Tutorial paper 1 Neurolinguistics David N. Caplan
09.30-09.50	Oral paper 1 Towards empirical dimensions for the classification of aphasic performance Athanasios Protopapas, Spyridoula Varlokosta, Alexandra Economou and Maria Kakavoulia
09.50-10.10	Oral paper 2 Victoria Joffe and Spyridoula Varlokosta Syntactic abilities in Williams Syndrome: How intact is "intact"?
10.10-10.30	Oral paper 3 Production and perception of Greek vowels in normal and cerebral palsy speech Antonis Botinis, Marios Fourakis, John W. Hawks, Ioanna Orfanidou
10.30-10.50	COFFEE BREAK
10.50-12.20	Oral session 2 Chair: Marios Fourakis
10.50-11.20	Tutorial paper 2 Sensorimotor control of speech production: Models and data Joseph S. Perkell
11.20-11.40	Oral paper 4 Pre-glottal vowels in Shanghai Chinese Yiya Chen

11.40-12.00	<p>Oral paper 5</p> <p>Perception of complex coda clusters and the role of the SSP Irene Vogel and Robin Aronow-Meredith</p>
11.40-12.00	<p>Oral paper 5</p> <p>Perception of complex coda clusters and the role of the SSP Irene Vogel and Robin Aronow-Meredith</p>
12.00-12.20	<p>Oral paper 6</p> <p>Evaluation of a virtual speech cue Guillaume Gibert, Gérard Bailly and Frédéric Elisei</p>
12.20-13.30	LUNCH BREAK
13.30-15.30	Poster session 1
	<p>Poster paper 1</p> <p>Effects of VV-sequence deletion across word boundaries in Spanish Irene Barberia</p>
	<p>Poster paper 2</p> <p>Distinctive feature enhancement: a review George N. Clements and Rachid Ridouane</p>
	<p>Poster paper 3</p> <p>Analysis of stop consonant production in European Portuguese Marisa Lobo Lousada and Luis M. T. Jesus</p>
	<p>Poster paper 4</p> <p>Stress and accent: acoustic correlates of metrical prominence in Catalan Luïsa Astruc and Pilar Prieto</p>
	<p>Poster paper 5</p> <p>Factors influencing ratios of filled pauses at clause boundaries in Japanese Michiko Watanabe, Keikichi Hirose, Yasuharu Den, Shusaku Miwa and Nobuaki Minematsu</p>
	<p>Poster paper 6</p> <p>Prosodic emphasis versus word order in Greek instructive texts Christina Alexandris and Stavroula-Evita Fotinea</p>
	<p>Poster paper 7</p> <p>Prosody and punctuation in The Stranger by Albert Camus Mari Lehtinen</p>
	<p>Poster paper 8</p> <p>Animacy effects on discourse prominence in Greek complex NPs Stella Tsaklidou and Eleni Miltsakaki</p>
	<p>Poster paper 9</p> <p>Speaker based segmentation on broadcast news-on the use of ISI</p>

	techniqueS. Ouamour, M. Guerti and H. Sayoud
	Poster paper 10 Melodic contours of yes/no questions in Brazilian Portuguese João Antônio de Moraes
	Poster paper 11 Analysis of intonation in news presentation on televisionEmma Rodero
	Poster paper 12 Formal expressive indiscernibility underlying a prosodic deformation modelloana Suciú, Ioannis Kanellos and Thierry Moudenc
	Poster paper 13 Measuring synchronization among speakers reading togetherFred Cummins
	Poster paper 14 Acoustics of speech and environmental SoundsSusana M. Capitão Silva, Luis M. T. Jesus and Mário A. L. Alves
	Poster paper 15 An acoustic study on the paralinguistic prosody in the politeness talk in Taiwan MandarinHsin-Yi Lin, Kwock-Ping John Tse and Janice Fon
TUESDAY 29	
09.00-10.30	Oral session 3 Chair: Åsa Abelin
09.00-09.30	Tutorial paper 3 Quantal phonetics and distinctive featuresGeorge N. Clements and Rachid Ridouane
09.30-09.50	Oral paper 7 On learnability and naturalness as constraints on phonological grammar Hahn Koo and Jennifer Cole
09.50-10.10	Oral paper 8 Toward a rich phonologyRobert Port
10.10-10.30	Oral paper 9 Characteristics of pre-nuclear pitch accents in statements and yes-no questions in GreekMary Baltazani
10.30-10.50	COFFEE BREAK
10.50-12.20	Oral session 4 Chair: Robert Bannert

10.50-11.20	Tutorial paper 4 Phonological encoding in speech production Niels O. Schiller
11.20-11.40	Oral paper 10 Broad vs. narrow focus in Greek Stella Gryllia
11.40-12.00	Oral paper 11 Prosody, syntax, macrosyntax Philippe Martin
12.00-12.20	Panel discussion Linguistics in theory and practice Coordinator: Antonis Botinis
12.20-13.30	LUNCH BREAK
13.30-15.30	Poster session 2
	Poster paper 16 The influence of second language learning on speech production by Greek/English bilinguals Niki-Pagona Efstathopoulou
	Poster paper 17 Formal features and intonation in Persian speakers' English interlanguage wh-questions Laya Heidari Darani
	Poster paper 18 Assessing aspectual asymmetries in human language processing Foong Ha Yap, Stella Wing Man Kwan, Emily Sze Man Yiu, Patrick Chun Kau Chu and Stella Fat Wong
	Poster paper 19 Templates from syntax to morphology: affix ordering in Qafar Pierre Rucart
	Poster paper 20 A corpus based analysis of English, Swedish, Polish, and Russian prepositions Barbara Gawronska, Olga Nikolaenkova and Björn Erlendsson
	Poster paper 21 A new trainable trajectory formation system for facial animation Oxana Govokhina, Gérard Bailly, Gaspard Breton and Paul Bagshaw
	Poster paper 22 Gradience and parametric variation Theodora Alexopoulou and Frank Keller
	Poster paper 23 Experimental Linguistics and Arabic Morphology Ali Idrissi
	Poster paper 24 All roads lead to advertising: Use of proverbs in slogans Helena Margarida Vaz Duarte, Rosa Lídia Coimbra and Lurdes de Castro Moutinho

	<p>Poster paper 25</p> <p>Incremental interpretation and discourse complexity Jana Häussler and Markus Bader</p>
	<p>Poster paper 26</p> <p>Formality and informality in electronic communication Edmund Turney, Carmen Pérez Sabater, Begoña Montero Fleta</p>
	<p>Poster paper 27</p> <p>Processing causal and diagnostic uses of so Sharmaine Seneviratne</p>
	<p>Poster paper 28</p> <p>Effects of structural prominence on anaphora: The case of relative clauses Eleni Miltsakaki and Paschalia Patsala</p>
	<p>Poster paper 29</p> <p>What is said and what is implicated: A study with reference to communication in English and Russian Anna Sysoeva</p>
	<p>Poster paper 30</p> <p>The effect of semantic distance in the picture-word interference task Simon De Deyne, Sven Van Lommel and Gert Storms</p>
	<p>Poster paper 32</p> <p>Where the wine is velvet: Verbo-pictorial metaphors in written advertising Rosa Lúcia Coimbra, Helena Margarida Vaz Duarte and Lurdes de Castro Moutinho</p>
20.30	WORKSHOP DINNER
WEDNESDAY 30	
09.00-10.30	<p>Oral session 5</p> <p>Chair: John Hawks</p>
09.00-09.30	<p>Tutorial paper 5</p> <p>Topics in speech perception Diane Kewley-Port</p>
09.30-09.50	<p>Oral paper 13</p> <p>Dynamic auditory representations and phonetic processing: The case of virtual diphthongs Ewa Jacewicz, Robert Allen Fox and Lawrence L. Feth</p>
09.50-10.10	<p>Oral paper 14</p> <p>Romanian palatalized consonants: A perceptual study Laura Spinu</p>
10.10-10.30	<p>Oral paper 15</p> <p>Towards multilingual articulatory feature recognition with Support Vector Machines Jan Macek, Anja Geumann and Julie Carson-Berndsen</p>
10.30-10.50	COFFEE BREAK

10.50-12.20	Oral session 6 Chair: Maria Baltazani
10.50-11.20	Tutorial paper 6 Spatial representation in language and thought Anna Papafragou
11.20-11.40	Oral paper 16 Experimental investigations on implicatures: a window into the semantics/pragmatics interface Napoleon Katsos
11.40-12.00	Oral paper 17 The acquisition of epistemic modality Anna Papafragou and Ozge Isik Ozturk
12.00-12.20	Experiments in investigating sound symbolism and onomatopoeia Åsa Abelin
12.20-12.30	Closing session Outcome and outlook Antonis Botinis