

ACL Workshop on Computing and Historical Phonology 2007, the 9th Meeting of the ACL Special Interest Group in Computational Morphology and Phonology

Held in conjunction with ACL 2007

**Prague, Czech Republic
28 June 2007**

ISBN: 978-1-61738-521-6

Printed from e-media with permission by:

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

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

Copyright© (2007) 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

Table of Contents

<i>Computing and Historical Phonology</i>	
John Nerbonne, T. Mark Ellison and Grzegorz Kondrak	1
<i>Word Similarity Metrics and Multilateral Comparison</i>	
Brett Kessler	6
<i>Bayesian Identification of Cognates and Correspondences</i>	
T. Mark Ellison	15
<i>Testing Cladistics on Dialect Networks and Phyla (Gallo-Romance Vowels, Southern Italo-Romance Di- asystems and Mayan Languages)</i>	
Antonella Gaillard-Corvaglia, Jean-Léo Léonard and Pierre Darlu	23
<i>The Relative Divergence of Dutch Dialect Pronunciations from their Common Source: An Exploratory Study</i>	
Wilbert Heeringa and Brian Joseph	31
<i>Can Corpus Based Measures be Used for Comparative Study of Languages?</i>	
Anil Kumar Singh and Harshit Surana	40
<i>Inducing Sound Segment Differences Using Pair Hidden Markov Models</i>	
Martijn Wieling, Therese Leinonen and John Nerbonne	48
<i>Phonological Reconstruction of a Dead Language Using the Gradual Learning Algorithm</i>	
Eric Smith	57
<i>Evolution, Optimization, and Language Change: The Case of Bengali Verb Inflections</i>	
Monojit Choudhury, Vaibhav Jalan, Sudeshna Sarkar and Anupam Basu	65
<i>On the Geolinguistic Change in Northern France between 1300 and 1900: A Dialectometrical Inquiry</i>	
Hans Goebel	75
<i>Visualizing the Evaluation of Distance Measures</i>	
Thomas Pilz, Axel Philipsenburg and Wolfram Luther	84
<i>Data Nonlinearity in Exploratory Multivariate Analysis of Language Corpora</i>	
Hermann Moisl	93
<i>Emergence of Community Structures in Vowel Inventories: An Analysis Based on Complex Networks</i>	
Animesh Mukherjee, Monojit Choudhury, Anupam Basu and Niloy Ganguly	101
<i>Cognate Identification and Alignment Using Practical Orthographies</i>	
Michael Cysouw and Hagen Jung	109
<i>ParaMor: Minimally Supervised Induction of Paradigm Structure and Morphological Analysis</i>	
Christian Monson, Jaime Carbonell, Alon Lavie and Lori Levin	117

<i>Dynamic Correspondences: An Object-Oriented Approach to Tracking Sound Reconstructions</i>	
Tyler Peterson and Gessiane Picanco	126
<i>Creating a Comparative Dictionary of Totonac-Tepéhua</i>	
Grzegorz Kondrak, David Beck and Philip Dilts	134