Computational Linguistics for Linguistic Complexity (CL4LC 2016)

Osaka, Japan 11 December 2016

ISBN: 978-1-5108-3321-0

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© (2016) by the Association for Computational Linguistics All rights reserved.

Printed by Curran Associates, Inc. (2016)

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

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400

Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

Could Machine Learning Shed Light on Natural Language Complexity? Maria Dolores Jimenez Lopez and Leonor Becerra-Bonache
Towards a Distributional Model of Semantic Complexity Emmanuele Chersoni, Philippe Blache and Alessandro Lenci
CoCoGen - Complexity Contour Generator: Automatic Assessment of Linguistic Complexity Using a Sliding-Window Technique Ströbel Marcus, Elma Kerz, Daniel Wiechmann and Stella Neumann
Addressing surprisal deficiencies in reading time models Marten van Schijndel and William Schuler
Towards grounding computational linguistic approaches to readability: Modeling reader-text interaction for easy and difficult texts Sowmya Vajjala, Detmar Meurers, Alexander Eitel and Katharina Scheiter
Memory access during incremental sentence processing causes reading time latency Cory Shain, Marten van Schijndel, Richard Futrell, Edward Gibson and William Schuler49
Reducing lexical complexity as a tool to increase text accessibility for children with dyslexia Nuria Gala and Johannes Ziegler
Syntactic and Lexical Complexity in Italian Noncanonical Structures Rodolfo Delmonte
Real Multi-Sense or Pseudo Multi-Sense: An Approach to Improve Word Representation Haoyue Shi, Caihua Li and Junfeng Hu
A Preliminary Study of Statistically Predictive Syntactic Complexity Features and Manual Simplifications in Basque Itziar Gonzalez-Dios, María Jesús Aranzabe and Arantza Díaz de Ilarraza
Dynamic pause assessment of keystroke logged data for the detection of complexity in translation and monolingual text production Arndt Heilmann and Stella Neumann
Implicit readability ranking using the latent variable of a Bayesian Probit model Johan Falkenjack and Arne Jonsson
CTAP: A Web-Based Tool Supporting Automatic Complexity Analysis Xiaobin Chen and Detmar Meurers
Coursebook Texts as a Helping Hand for Classifying Linguistic Complexity in Language Learners' Writings
Ildikó Pilán, David Alfter and Elena Volodina
Using Ambiguity Detection to Streamline Linguistic Annotation Wajdi Zaghouani, Abdelati Hawwari, Sawsan Alqahtani, Houda Bouamor, Mahmoud Ghoneim, Mona Diab and Kemal Oflazer

Morphological Complexity Influences Verb-Object Order in Swedish Sign Language Johannes Bjerva and Carl Börstell
A Comparison Between Morphological Complexity Measures: Typological Data vs. Language Corpora Christian Bentz, Tatyana Ruzsics, Alexander Koplenig and Tanja Samardzic
Similarity-Based Alignment of Monolingual Corpora for Text Simplification Purposes Sarah Albertsson, Evelina Rennes and Arne Jonsson
Automatic Construction of Large Readability Corpora Jorge Alberto Wagner Filho, Rodrigo Wilkens and Aline Villavicencio
Testing the Processing Hypothesis of word order variation using a probabilistic language model Jelke Bloem
Temporal Lobes as Combinatory Engines for both Form and Meaning Jixing Li, Jonathan Brennan, Adam Mahar and John Hale
Automatic Speech Recognition Errors as a Predictor of L2 Listening Difficulties Maryam Sadat Mirzaei, Kourosh Meshgi and Tatsuya Kawahara
Quantifying sentence complexity based on eye-tracking measures Abhinav Deep Singh, Poojan Mehta, Samar Husain and Rajkumar Rajakrishnan
Upper Bound of Entropy Rate Revisited —A New Extrapolation of Compressed Large-Scale Corpora— Ryosuke Takahira, Kumiko Tanaka-Ishii and Łukasz Dębowski
Learning pressures reduce morphological complexity: Linking corpus, computational and experimenta evidence
Christian Bentz and Aleksandrs Berdicevskis