Contents

Invited Paper

Author Profiling in Social Media: The Impact of Emotions on Discourse Analysis .................................................. 3
   Paolo Rosso and Francisco Rangel

Language and Information Extraction

Neural Machine Translation by Generating Multiple Linguistic Factors .................. 21
   Mercedes García-Martínez, Loïc Barrault, and Fethi Bougares

Analysis and Automatic Classification of Some Discourse Particles on a Large Set of French Spoken Corpora ......................... 32
   Denis Jouvet, Katarina Bartkova, Mathilde Dargnat, and Lou Lee

Learning Morphology of Natural Language as a Finite-State Grammar .................. 44
   Javad Nouri and Roman Yangarber

Incorporating Coreference to Automatic Evaluation of Coherence in Essays .................. 58
   Michal Novák, Kateřina Rysová, Magdaléna Rysová, and Jiří Mirovský

Graph-Based Features for Automatic Online Abuse Detection .................. 70
   Etienne Papegnies, Vincent Labatut, Richard Dufour, and Georges Linarès

Exploring Temporal Analysis of Tweet Content from Cultural Events .................. 82
   Mathias Quillot, Cassandre Ollivier, Richard Dufour, and Vincent Labatut

Towards a Relation-Based Argument Extraction Model for Argumentation Mining .................. 94
   Gil Rocha and Henrique Lopes Cardoso

Post-processing and Applications of Automatic Transcriptions

Three Experiments on the Application of Automatic Speech Recognition in Industrial Environments .................. 109
   Ferdinand Fuhrmann, Anna Maly, Christina Leitner, and Franz Graf

Enriching Confusion Networks for Post-processing .................. 119
   Sahar Ghannay, Yannick Estève, and Nathalie Camelin
Attentional Parallel RNNs for Generating Punctuation
in Transcribed Speech ............................................. 131
   Alp Öktem, Mireia Farrús, and Leo Wanner

Lightweight Spoken Utterance Classification with CFG, tf-idf
and Dynamic Programming ........................................ 143
   Manny Rayner, Nikos Tsourakis, and Johanna Gerlach

Low Latency MaxEnt- and RNN-Based Word Sequence Models
for Punctuation Restoration of Closed Caption Data ............ 155
   Máté Ákos Tündik, Balázs Tarján, and György Szaszák

Speech: Paralinguistics and Synthesis

Unsupervised Speech Unit Discovery Using K-means
and Neural Networks ............................................. 169
   Céline Manenti, Thomas Pellegrini, and Julien Pinquier

Noise and Speech Estimation as Auxiliary Tasks for Robust
Speech Recognition ............................................. 181
   Gueorgui Pironkov, Stéphane Dupont, Sean U.N. Wood,
   and Thierry Dutoit

Unified Approach to Development of ASR Systems for East
Slavic Languages ............................................. 193
   Radek Safarik and Jan Nouza

A Regularization Post Layer: An Additional Way How to Make Deep
Neural Networks Robust ............................................. 204
   Jan Vaněk, Jan Zelinka, Daniel Soutner, and Josef Psutka

Speech Recognition: Modeling and Resources

Detecting Stuttering Events in Transcripts of Children’s Speech ........ 217
   Sadeen Alharbi, Madina Hasan, Anthony J.H. Simons, Shelagh Brumfitt,
   and Phil Green

Introducing AmuS: The Amused Speech Database .................. 229
   Kevin El Haddad, Ilaria Torre, Emer Gilmartin, Hüseyin Çakmak,
   Stéphane Dupont, Thierry Dutoit, and Nick Campbell

Lexical Emphasis Detection in Spoken French Using F-BANKs
and Neural Networks ............................................. 241
   Abdelwahab Heba, Thomas Pellegrini, Tom Jorquera,
   Régine André-Obrecht, and Jean-Pierre Lorré
Speaker Change Detection Using Binary Key Modelling with Contextual Information

Jose Patino, Héctor Delgado, and Nicholas Evans

Perception of Expressivity in TTS: Linguistics, Phonetics or Prosody?

Marie Tahon, Gwénolé Lecorvé, Damien Lolive, and Raheel Qader

Author Index
Statistical Language and Speech Processing
Camelin, N.; Estève, Y.; Martín-Vide, C. (Eds.)
2017, XI, 276 p. 58 illus., Softcover
ISBN: 978-3-319-68455-0