

Contents

Machine Translation Systems

An Automatic Approach for WordNet Enrichment Applied to Arabic WordNet	3
<i>Mohamed Seghir Hadj Ameer, Ahlem Chérifa Khadir, and Ahmed Guessoum</i>	
Word Embedding-Based Approaches for Measuring Semantic Similarity of Arabic-English Sentences	19
<i>El Moatez Billah Nagoudi, Jérémy Ferrero, Didier Schwab, and Hadda Cherroun</i>	
A POS-Based Preordering Approach for English-to-Arabic Statistical Machine Translation	34
<i>Mohamed Seghir Hadj Ameer, Ahmed Guessoum, and Farid Meziane</i>	

Speech Recognition and Synthesis

Towards a High-Quality Lemma-Based Text to Speech System for the Arabic Language	53
<i>Oumaima Zine, Abdelouafi Meziane, and Mohamed Boudchiche</i>	
Towards a Speech Recognizer for Multiple Languages Using Arabic Acoustic Model Application to Amazigh Language	67
<i>Ali Sadiqui and Ahmed Zinedine</i>	
A Game with a Purpose for Automatic Detection of Children’s Speech Disabilities Using Limited Speech Resources	79
<i>Reem Elhady, Mohamed Elmahdy, Injy Hamed, and Slim Abdennadher</i>	
Building a Rich Arabic Speech and Language Corpus Based on the Holy Quran	90
<i>Ali Mefteh, Yasser Seddiq, Yousef Alotaibi, and Sid-Ahmed Selouani</i>	

Text Categorization, Clustering and Summarization

Combining Words and Concepts for Automatic Arabic Text Classification . . .	105
<i>Alaa Alahmadi, Arash Joorabchi, and Abdulhussain E. Mahdi</i>	
Modern Standard Arabic Readability Prediction	120
<i>Naoual Nassiri, Abdelhak Lakhouaja, and Violetta Cavalli-Sforza</i>	

Document Similarity for Arabic and Cross-Lingual Web Content	134
<i>Ali Salhi and Adnan H. Yahya</i>	
Empirical Evaluation of Word Representations on Arabic Sentiment Analysis	147
<i>Mourad Gridach, Hatem Haddad, and Hala Mulki</i>	
A Survey of Extractive Arabic Text Summarization Approaches	159
<i>Samira Lagrini, Mohammed Redjimi, and Nabiha Azizi</i>	
Information Retrieval Systems	
Toward a Context-Aware Multilingual Personalized Search	175
<i>Mohamed Seghir Hadj Ameer, Youcef Moulahoum, Lamia Berkani, and Ahmed Guessoum</i>	
Fusion Based Authorship Attribution-Application of Comparison Between the Quran and Hadith	191
<i>Halim Sayoud and Hassina Hadjadj</i>	
Automatic Identification of Moroccan Colloquial Arabic	201
<i>Ridouane Tachicart, Karim Bouzoubaa, Si Lhoussaine Aouragh, and Hamid Jaafa</i>	
Arabic NLP Tools and Applications	
Encoding Prototype of Al-Hadith Al-Shareef in TEI	217
<i>Hajer Maraoui, Kais Haddar, and Laurent Romary</i>	
A New Tool for Benchmarking and Assessing Arabic Syntactic Parsers.	230
<i>Younes Jaafar and Karim Bouzoubaa</i>	
Syntactic Parsing of Simple Arabic Nominal Sentence Using the NooJ Linguistic Platform	244
<i>Said Bourahma, Samir Mbarki, Mohammed Mourchid, and Abdelaziz Mouloudi</i>	
Author Index	259



<http://www.springer.com/978-3-319-73499-6>

Arabic Language Processing: From Theory to Practice
6th International Conference, ICALP 2017, Fez,
Morocco, October 11-12, 2017, Proceedings
Lachkar, A.; Bouboubaa, K.; Mazroui, A.; Hamdani, A.;
Lekhouaja, A. (Eds.)
2018, XVI, 259 p. 66 illus., Softcover
ISBN: 978-3-319-73499-6