

**CONTENTS**

**Editorial** 9

**Articles**

**Empirical Investigation of Optimization Algorithms  
in Neural Machine Translation** 13

*Parnia Bahar, Tamer Alkhouli, Jan-Thorsten Peter, Christopher Jan-Steffen Brix,  
Hermann Ney*

**Generating Alignments Using Target Foresight in Attention-Based Neural  
Machine Translation** 27

*Jan-Thorsten Peter, Arne Nix, Hermann Ney*

**Convolutional over Recurrent Encoder for Neural Machine Translation** 37

*Praveen Dakwale, Christof Monz*

**Learning Morphological Normalization for Translation  
from and into Morphologically Rich Languages** 49

*Franck Burlot, François Yvon*

**Integration of a Multilingual Preordering Component  
into a Commercial SMT Platform** 61

*Anita Ramm, Riccardo Superbo, Dimitar Shterionov, Tony O'Dowd, Alexander Fraser*

**Maintaining Sentiment Polarity in Translation of User-Generated Content** 73

*Pintu Lohar, Haithem Afli, Andy Way*

<b>Using Word Embeddings to Enforce Document-Level Lexical Consistency in Machine Translation</b>	85	<b>Continuous Learning from Human Post-Edits for Neural Machine Translation</b>	233
<i>Eva Martínez García, Carles Creus, Cristina España-Bonet, Lluís Màrquez</i>		<i>Marco Turchi, Matteo Negri, M. Amin Farajian, Marcello Federico</i>	
<b>Comparative Human and Automatic Evaluation of Glass-Box and Black-Box Approaches to Interactive Translation Prediction</b>	97	<b>Applying N-gram Alignment Entropy to Improve Feature Decay Algorithms</b>	245
<i>Daniel Torregrosa, Juan Antonio Pérez-Ortiz, Mikel L. Forcada</i>		<i>Alberto Poncelas, Gideon Maillette de Buy Wenniger, Andy Way</i>	
<b>Is Neural Machine Translation the New State of the Art?</b>	109	<b>Optimizing Tokenization Choice for Machine Translation across Multiple Target Languages</b>	257
<i>Sheila Castilho, Joss Moorkens, Federico Gaspari, Iacer Calixto, John Tinsley, Andy Way</i>		<i>Nasser Zalmout, Nizar Habash</i>	
<b>Fine-Grained Human Evaluation of Neural Versus Phrase-Based Machine Translation</b>	121	<b>Providing Morphological Information for SMT Using Neural Networks</b>	271
<i>Filip Klubička, Antonio Toral, Victor M. Sánchez-Cartagena</i>		<i>Peyman Passban, Qun Liu, Andy Way</i>	
<b>A Neural Network Architecture for Detecting Grammatical Errors in Statistical Machine Translation</b>	133	<b>Neural Networks Classifier for Data Selection in Statistical Machine Translation</b>	283
<i>Arda Tezcan, Véronique Hoste, Lieve Macken</i>		<i>Álvaro Peris, Mara China-Ríos, Francisco Casacuberta</i>	
<b>Evaluating the Usability of a Controlled Language Authoring Assistant</b>	147	<b>Historical Documents Modernization</b>	295
<i>Rei Miyata, Anthony Hartley, Kyo Kageura, Cécile Paris</i>		<i>Miguel Domingo, Mara China-Rios, Francisco Casacuberta</i>	
<b>A Linguistic Evaluation of Rule-Based, Phrase-Based, and Neural MT Engines</b>	159	<b>Comparative Quality Estimation for Machine Translation Observations on Machine Learning and Features</b>	307
<i>Aljoscha Burchardt, Vivien Macketanz, Jon Dehdari, Georg Heigold, Jan-Thorsten Peter, Philip Williams</i>		<i>Eleftherios Avramidis</i>	
<b>Pre-Reordering for Neural Machine Translation: Helpful or Harmful?</b>	171	<b>Finite-State Back-Transliteration for Marathi</b>	319
<i>Jinhua Du, Andy Way</i>		<i>Vinit Ravishankar</i>	
<b>Towards Optimizing MT for Post-Editing Effort: Can BLEU Still Be Useful?</b>	183	<b>Linguistically Motivated Vocabulary Reduction for Neural Machine Translation from Turkish to English</b>	331
<i>Mikel L. Forcada, Felipe Sánchez-Martínez, Miquel Esplà-Gomis, Lucía Specia</i>		<i>Duygu Ataman, Matteo Negri, Marco Turchi, Marcello Federico</i>	
<b>Unraveling the Contribution of Image Captioning and Neural Machine Translation for Multimodal Machine Translation</b>	197	<b>Questing for Quality Estimation A User Study</b>	343
<i>Chiraag Lala, Pranava Madhyastha, Josiah Wang, Lucía Specia</i>		<i>Carla Parra Escartín, Hanna Béchara, Constantin Orásan</i>	
<b>Comparing Language Related Issues for NMT and PBMT between German and English</b>	209	<b>Improving Machine Translation through Linked Data</b>	355
<i>Maja Popović</i>		<i>Ankit Srivastava, Georg Rehm, Felix Sasaki</i>	
<b>Rule-Based Machine Translation for the Italian-Sardinian Language Pair</b>	221	<b>Instructions for Authors</b>	367
<i>Francis M. Tyers, Hèctor Alòs i Font, Gianfranco Fronteddu, Adrià Martín-Mor</i>			