EMNLP 2015

Tenth Workshop on Statistical Machine Translation

Proceedings of the Workshop

17-18 September 2015 Lisbon, Portugal

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Preface

The EMNLP 2015 Workshop on Statistical Machine Translation (WMT 2015) took place on Thursday and Friday, September 17-18, 2015 in Lisbon, Portugal, immediately preceding the Conference on Empirical Methods in Natural Language Processing (EMNLP).

This was the tenth time this workshop has been held. The first time it was held at HLT-NAACL 2006 in New York City, USA. In the following years the Workshop on Statistical Machine Translation was held at ACL 2007 in Prague, Czech Republic, ACL 2008, Columbus, Ohio, USA, EACL 2009 in Athens, Greece, ACL 2010 in Uppsala, Sweden, EMNLP 2011 in Edinburgh, Scotland, NAACL 2012 in Montreal, Canada, ACL 2013 in Sofia, Bulgaria, and ACL 2014 in Baltimore, Maryland, USA.

The focus of our workshop was to use parallel corpora for machine translation. Recent experimentation has shown that the performance of SMT systems varies greatly with the source language. In this workshop we encouraged researchers to investigate ways to improve the performance of SMT systems for diverse languages, including morphologically more complex languages, languages with partial free word order, and low-resource languages.

Prior to the workshop, in addition to soliciting relevant papers for review and possible presentation, we conducted five shared tasks: a general translation task, an automatic post-editing task, a quality estimation task, a metrics task, and a tuning task. The automatic post-editing task was introduced this year as a pilot to examine the capabilities of automatic methods for correcting errors produced by machine translation systems. This year's tuning task is a follow up of the WMT 2011 invitation-only tunable metrics task to assess a system's ability to optimize the parameters of a given hierarchical MT system. The results of all shared tasks were announced at the workshop, and these proceedings also include an overview paper for the shared tasks that summarizes the results, as well as provides information about the data used and any procedures that were followed in conducting or scoring the task. In addition, there are short papers from each participating team that describe their underlying system in greater detail.

Like in previous years, we have received a far larger number of submission than we could accept for presentation. This year we have received 28 full paper submissions and 47 shared task submissions. In total WMT 2015 featured 11 full paper oral presentations and 46 shared task poster presentations.

The invited talk was given by Jacob Devlin (Microsoft Research), entitled "A Practical Guide to Real-Time Neural Translation".

We would like to thank the members of the Program Committee for their timely reviews. We also would like to thank the participants of the shared task and all the other volunteers who helped with the evaluations.

Ondřej Bojar, Rajan Chatterjee, Christian Federmann, Barry Haddow, Chris Hokamp, Matthias Huck, Varvara Logacheva, Pavel Pecina, Philipp Koehn, Christof Monz, Matteo Negri, Matt Post, Carolina Scarton, Lucia Specia, and Marco Turchi.

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Marco Turchi (Fondazione Bruno Kessler)

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Ashish Vaswani (University of Southern California Information Sciences Institute)

David Vilar (Nuance)

Martin Volk (University of Zurich)

Aurelien Waite (University of Cambridge)

Taro Watanabe (NICT)

Marion Weller (Universität Stuttgart)

Philip Williams (University of Edinburgh)

Shuly Wintner (University of Haifa)

Hua Wu (Baidu)

Joern Wuebker (RWTH Aachen University)

Peng Xu (Google Inc.)

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Francois Yvon (LIMSI/CNRS)

Feifei Zhai (The City University of New York)

Joy Ying Zhang (Carnegie Mellon University)

Tiejun Zhao (Harbin Institute of Technology)

Yinggong Zhao (State Key Laboratory for Novel Software Technology at Nanjing University)

Invited Speaker:

Jacob Devlin (Microsoft Research)

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Guillaume Wisniewski, Nicolas Pécheux and François Yvon

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Friday, September 18, 2015

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Results of the WMT15 Metrics Shared Task Miloš Stanojević, Amir Kamran, Philipp Koehn and Ondřej Bojar

Results of the WMT15 Tuning Shared Task

Miloš Stanojević, Amir Kamran and Ondřej Bojar

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09:50–10:10 Extended Translation Models in Phrase-based Decoding

Andreas Guta, Joern Wuebker, Miguel Graca, Yunsu Kim and Hermann Ney

10:10-10:30 Investigations on Phrase-based Decoding with Recurrent Neural Network Lan-

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Tamer Alkhouli, Felix Rietig and Hermann Ney

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Referential Translation Machines for Predicting Translation Quality and Related Statistics

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UGENT-LT3 SCATE System for Machine Translation Quality Estimation

Arda Tezcan, Veronique Hoste, Bart Desmet and Lieve Macken

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Boxing Chen, Hongyu Guo and Roland Kuhn

VERTa: a Linguistically-motivated Metric at the WMT15 Metrics Task

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CASICT-DCU Participation in WMT2015 Metrics Task

Hui Yu, Qingsong Ma, Xiaofeng Wu and Qun Liu

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Grant Erdmann and Jeremy Gwinnup

MT Tuning on RED: A Dependency-Based Evaluation Metric Liangyou Li, Hui Yu and Qun Liu

Improving evaluation and optimization of MT systems against MEANT Chi-kiu Lo, Philipp Dowling and Dekai Wu

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15:20-16:00 *Coffee Break*

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