

Second Workshop on Applying Machine Learning Techniques to Optimise the Division of Labour in Hybrid MT

(ML4HMT-2012)

**Held at the 24th International Conference on Computational
Linguistics (COLING 2012)**

**Mumbai, India
15 December 2012**

Editors:

**Josef Van Genabith
Toni Badia
Christian Federmann**

**Maite Melero
Marta R. Costa-jussa
Tsuyoshi Okita**

ISBN: 978-1-62748-357-5

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© (2012) by the Association for Computational Linguistics
All rights reserved.

Printed by Curran Associates, Inc. (2013)

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: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

<i>Hybrid Adaptation of Named Entity Recognition for Statistical Machine Translation</i> Vassilina Nikoulina, Agnes Sandor and Marc Dymetman	1
<i>Confusion Network Based System Combination for Chinese Translation Output: Word-Level or Character-Level?</i> Maoxi Li and MingWen Wang	17
<i>Using Cross-Lingual Explicit Semantic Analysis for Improving Ontology Translation</i> Kartik Asooja, Jorge Gracia, Nitish Aggarwal and Asunción Gómez Pérez	25
<i>System Combination with Extra Alignment Information</i> Xiaofeng Wu, Tsuyoshi Okita, Josef van Genabith and Qun Liu	37
<i>Topic Modeling-based Domain Adaptation for System Combination</i> Tsuyoshi Okita, Antonio Toral and Josef van Genabith	45
<i>Sentence-Level Quality Estimation for MT System Combination</i> Tsuyoshi Okita, Raphaël Rubino and Josef van Genabith	55
<i>Neural Probabilistic Language Model for System Combination</i> Tsuyoshi Okita	65
<i>System Combination Using Joint, Binarised Feature Vectors</i> Christian Federmann	77
<i>Results from the ML4HMT-12 Shared Task on Applying Machine Learning Techniques to Optimise the Division of Labour in Hybrid Machine Translation</i> Christian Federmann, Tsuyoshi Okita, Maite Melero, Marta R. Costa-Jussa, Toni Badia and Josef van Genabith	85