

# **Second Workshop on Advances in Text Input Methods**

**(WTIM 2)**

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

**Mumbai, India  
15 December 2012**

**Editors:**

**Kalika Bali  
Monojit Choudhury**

**Yoh Okuno**

**ISBN: 978-1-62748-349-0**

**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](mailto: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](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

## Table of Contents

<i>Statistical Input Method based on a Phrase Class n-gram Model</i> Hirokuni Maeta and Shinsuke Mori .....	1
<i>An Ensemble Model of Word-based and Character-based Models for Japanese and Chinese Input Method</i> Yoh Okuno and Shinsuke Mori.....	15
<i>Multi-objective Optimization for Efficient Brahmic Keyboards</i> Albert Brouillette, Devraj Sarmah and Jugal Kalita .....	29
<i>Using Collocations and K-means Clustering to Improve the N-pos Model for Japanese IME</i> Long Chen, Xianchao Wu and Jingzhou He.....	45
<i>phloat : Integrated Writing Environment for ESL learners</i> Yuta Hayashibe, Masato Hagiwara and Satoshi Sekine.....	57
<i>Bangla Phonetic Input Method with Foreign Words Handling</i> Khan Md. Anwarus Salam, Nishino Tetsuro and Setsuo Yamada .....	73
<i>LuitPad: A fully Unicode compatible Assamese writing software</i> Navanath Saharia and Kishori M. Konwar .....	79
<i>Romanized Arabic Transliteration</i> Achraf Chalabi and Hany Gerges.....	89
<i>Forward Transliteration of Dzongkha Text to Braille</i> Tirthankar Dasgupta, Manjira Sinha and Anupam Basu.....	97
<i>Quillpad Multilingual Predictive Transliteration System</i> Ram Prakash H .....	107