The 25th International Conference on Computational Linguistics

Proceedings of the Conference
the 5th Workshop on South and Southeast Asian NLP
WSSANLP - 2014

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Proceedings of the Fifth Workshop on South and Southeast Asian Natural Language Processing
Christian Boitet and M.G. Abbas Malik (eds.)
Preface

Welcome to the 5th Workshop on South and Southeast Asian Natural Language Processing (WSSANLP - 2014), a collocated event at the 25th International Conference on Computational Linguistics (COLING 2014), 23 - 29 August, 2014.

South and Southeast Asia comprise of the countries, Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka. Southeast Asia, on the other hand, consists of Brunei, Burma, Cambodia, East Timor, Indonesia, Laos, Malaysia, Philippines, Singapore, Thailand and Vietnam.

This area is the home to thousands of languages that belong to different language families like Indo-Aryan, Indo-Iranian, Dravidian, Sino-Tibetan, Austro-Asiatic, Kradai, Hmong-Mien, etc. In terms of population, South Asian and Southeast Asia represent 35 percent of the total population of the world which means as much as 2.5 billion speakers. Some of the languages of these regions have a large number of native speakers: Hindi (5th largest according to number of its native speakers), Bengali (6th), Punjabi (12th), Tamil (18th), Urdu (20th), etc.

As internet and electronic devices including PCs and hand held devices including mobile phones have spread far and wide in the region, it has become imperative to develop language technology for these languages. It is important for economic development as well as for social and individual progress.

A characteristic of these languages is that they are under-resourced. The words of these languages show rich variations in morphology. Moreover they are often heavily agglutinated and synthetic, making segmentation an important issue. The intellectual motivation for this workshop comes from the need to explore ways of harnessing the morphology of these languages for higher level processing. The task of morphology, however, in South and Southeast Asian Languages is intimately linked with segmentation for these languages.

The goal of WSSANLP is:

• Providing a platform to linguistic and NLP communities for sharing and discussing ideas and work on South and Southeast Asian languages and combining efforts.
• Development of useful and high quality computational resources for under resourced South and Southeast Asian languages.

We are delighted to present to you this volume of proceedings of the 5th Workshop on South and Southeast Asian Natural Language Processing. We have received total 18 submission in the categories of long paper and short paper. On the basis of our review process, we have competitively selected 7 long (regular) papers for oral presentations and 7 short papers for poster presentations.

We look forward to an invigorating workshop.

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The Fifth Workshop on
South and Southeast Asian Natural Language processing
WSSANLP-2014

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Saturday August 23, 2014

(8:45 - 9:00) Opening Session

(9:00 - 10:15) Invited Talk

+ by Vincent Berment

(10:15 - 10:45) Coffee Break

Session Regular Papers 1: (10:45 - 12:30) WSSANLP Session 1

10:45 Towards Identifying Hindi/Urdu Noun Templates in Support of a Large-Scale LFG Grammar
Sebastian Sulger and Ashwini Vaidya

11:10 Konkanverter - A Finite State Transducer based Statistical Machine Transliteration Engine for Konkani Language
Vinodh Rajan

11:35 Integrating Dictionaries into an Unsupervised Model for Myanmar Word Segmentation
Ye Kyaw Thu, Andrew Finch, Eichiro SUMITA and Yoshinori Sagisaka

12:00 A Framework for Learning Morphology using Suffix Association Matrix
Shilpa Desai, Jyoti Pawar and Pushpak Bhattacharyya

(12:30 - 14:00) Lunch break
Saturday August 23, 2014 (continued)

Session Short Papers: (14:00 - 15:15) WSSANLP Session 2

*English to Urdu Statistical Machine Translation: Establishing a Baseline*
Bushra Jawaid, Amir Kamran and Ondrej Bojar

*A hybrid approach for automatic clause boundary identification in Hindi*
Rahul Sharma and Soma Paul

*RBM as an alternative to SMT for under-resourced languages*
Guillaume de Malézieux, Amélie Bosc and Vincent Berment

*Developing an interlingual translation lexicon using WordNets and Grammatical Framework*
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*A Dictionary Data Processing Environment and Its Application in Algorithmic Processing of Pali Dictionary Data for Future NLP Tasks*
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*Constituent structure representation of Pashto Endoclitics*
Azizud Din, Bali Ranaivo-Malançon and M. G. Abbas Malik

*Real Time Early-stage Influenza Detection with Emotion Factors from Sina Microblog*
Xiao Sun, Jiaqi Ye and Fuji Ren

(15:15 - 15:45) Coffee Break

Session Regular Papers 2: (15:45 - 17:00) WSSANLP Session 3

15:45

*Building English-Vietnamese Named Entity Corpus with Aligned Bilingual News Articles*
Quoc Hung Ngo, Dinh Dien and Werner Winiwarter

16:10

*Character-Cluster-Based Segmentation using Monolingual and Bilingual Information for Statistical Machine Translation*
Vipas Sutantayawalee, Peerachat Porkeaw, Thepchai Supnithi, Prachya Boonkwan and Sittha Phaholphinyo

16:35

*A rule based approach for automatic clause boundary detection and classification in Hindi*
Rahul Sharma
Saturday August 23, 2014 (continued)

(17:00 - 17:15) Closing Remarks