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Proceedings of the 3rd Workshop on South and Southeast Asian Natural Language Processing (SANLP)
Virach Sornlertlamvanich and Abbas Malik (eds.)
Revised preprint edition, 2012

Published by The COLING 2012 Organizing Committee
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Powai,
Mumbai-400076
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Introduction

Welcome to the 3rd Workshop on South and Southeast Asian Natural Language Processing (WSSANLP - 2012), a collocated event at COLING 2012, 8 - 15 December, 2012. South Asia comprises 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, Kradaï, 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 3rd Workshop on South and Southeast Asian Natural Language Processing. We have received total 39 submission in the categories of long paper, short paper and demonstration. On the basis of our review process, we have competitively selected 9 long papers for oral presentations, 12 short papers for poster presentations and 2 demonstrations.

We look forward to an invigorating workshop.

Virach Sornlertlamvanich (Chair WSSANLP),
National Electronics and Computer Technology Center (NECTEC), Thailand

M.G. Abbas Malik (Chair of Organizing Committee WSSANLP),
Faculty of Computing and Information Technology (North Branch),
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Virach Sornlertlamvanich (National Electronics and Computer Technology Center (NECTEC), Thailand)

Workshop Organization Co-chair:
M. G. Abbas Malik (Faculty of Computing and Information Technology (North Branch), King Abdulaziz University, Saudi Arabia)

Invited Speaker:
Christian Boitet (GETALP - LIG, University of Grenoble, France)

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Virach Sornlertlamvanich (National Electronics and Computer Technology Center (NECTEC), Thailand)
Sriram Venkatapathy (Xerox Research Center Europe, France)
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Program

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9:50–10:50 Invited Talk by Christian Boitet
10:50–11:15 Computational evidence that Hindi and Urdu share a grammar but not the lexicon
K.V.S Prasad and Shafqat Mumtaz Virk
11:30–12:00 Tea Break

WSSANLP Session II

12:00–12:25 Semantic Relation Extraction from a Cultural Database
Canasai Kruengkrai, Virach Sornlertlamvanich, Watchira Buranasing and Thatsanee Charoenporn
12:25–12:50 Bengali Question Classification: Towards Developing QA System
Somnath Banerjee and Sivaji Bandyopadhyay
12:50–13:15 Morphological Analyzer for Kokborok
Khumbar Debbarma, Braja Gopal Patra, Dipankar Das and Sivaji Bandyopadhyay
12:15–13:40 Comparing Different Criteria for Vietnamese Word Segmentation
Quy T. Nguyen, Ngan L.T. Nguyen and Yusuke Miyao
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WSSANLP Session III

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*Using English Acoustic Models for Hindi Automatic Speech Recognition*
Anik Dey, Li Ying and Pascale Fung

*Tagger Voting for Urdu*
Bushra Jawaid and Ondřej Bojar

*BIS Annotation Standards With Reference to Konkani Language*
Madhavi Sardesai, Jyoti Pawar, Shantaram Walawalkar and Edna Vaz

*Automatic Extraction of Compound Verbs from Bangla Corpora*
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*IndoWordNet Application Programming Interfaces*
Neha Prabhugaonkar, Apurva Nagvenkar and Ramdas Karmali

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*A Light Weight Stemmer for Urdu Language: A Scarce Resourced Language*
Sajjad Ahmad Khan, Waqas Anwar, Usama Ijaz Bajwa and Xuan Wang

17:25–17:50

*Morpheme Segmentation for Kannada Standing on the Shoulder of Giants*
Suma Bhat

17:50–18:15

*Manipuri Morpheme Identification*
Kishorjit Nongmeikapam, Vidya Raj RK, Nirmal Y and Sivaji B

18:15–18:40

*Domain Based Classification of Punjabi Text Documents using Ontology and Hybrid Based Approach*
Nidhi Krail, Vishal Gupta

18:40–19:00

**Closing Remarks**