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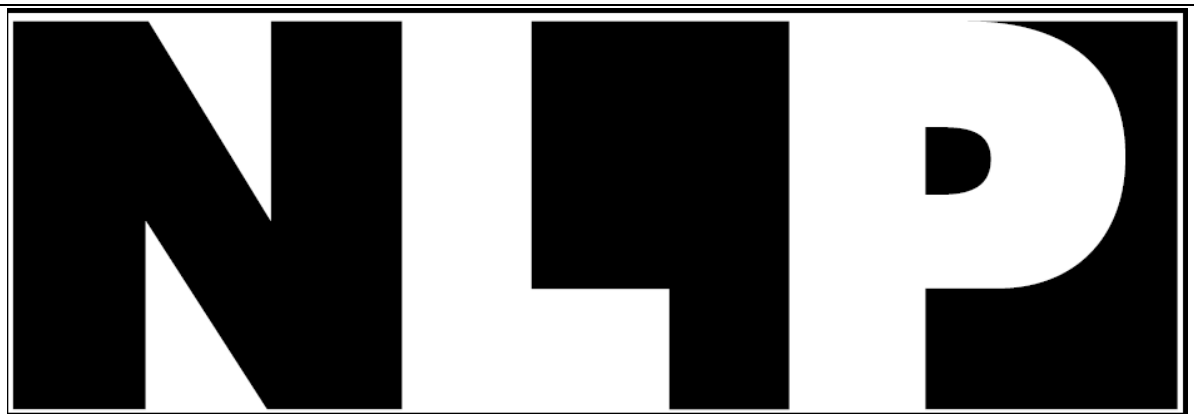

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ISBN 978-4-9907348-0-0

FOREWORD

Welcome to the 6th International Joint Conference on Natural Language Processing (IJCNLP) in Nagoya, Japan. IJCNLP was initiated in 2004 by The Asian Federation of Natural Language Processing (AFNLP) with the major goal to provide a platform for researchers and professionals from around the world to share their experiences related to natural language processing and computational linguistics. In the past years, IJCNLPs were held in 5 different places: Hainan Island (2004), Jeju Island (2005), Hyderabad (2008), Singapore (2009), and Chiang Mai (2011). This year the 6th IJCNLP is held in Nagoya Congress Center on October 14-18, 2013. The conference covers a broad spectrum of technical areas related to natural language and computation. Besides main conference, the program includes 2 keynote speeches, 3 tutorials, 12 demonstrations, and 7 workshops.

We would like to thank many people who contribute their efforts to IJCNLP 2013. Program chairs Ruslan Mitkov and Jong C. Park select a strong set of papers and organize a wonderful program. PC coordinators Jin-Woo Chung and Isabel Duran support authors and PC committee a stable submission and review platform. Workshop chairs Naoaki Okazaki and Scott Wen-tau Yih organize 7 nice pre-conference and post-conference workshops. Tutorial chairs Vincent Ng and Satoshi Sekine choose 3 very good tutorials. Demo chairs Hang Li and Kentaro Torisawa recommend 12 demonstrations. Sponsorship chair Hiromi Nakaiwa designs sponsor packages and finds financial supports. We thank all the sponsors. Publicity chairs Gareth Jones, Gary Geunbae Lee, Diego Mollá-Aliod, Chengqing Zong and Stajner Sanja help circulate the conference information and promote the conference. We would like to express our special thanks to publication chairs Jing Jiang and Lun-Wei Ku. They bore two babies during the organization of the conference. After the hard work, they deliver an excellent proceeding to the participants. Finally, we are very thankful to those people who dedicate their time and energy to IJCNLP 2013, but are not mentioned in the above. Without them, we would not have had a successful conference.

Hsin-Hsi Chen, General Chair, National Taiwan University, Taiwan
Hitoshi Isahara, Organization Chair, Toyohashi University of Technology, Japan

October 15, 2013

PREFACE

As the flagship conference of the Asian Federation of Natural Language Processing (AFNLP), IJCNLP continues to establish itself as a highly influential international event. IJCNLP 2013 covers a broad spectrum of technical areas related to Natural Language Processing. The conference includes regular papers, short papers, poster papers, and system demonstrations, as well as pre- and post-conference tutorials and workshops.

This year, we received 363 paper submissions, which is not as many as the record submissions in the previous conference (e.g., 478 in 2011) but still quite admirable, considering the tough competition for good papers this year, with EMNLP 2013 and RANLP 2013, and the fact that many organizations have restricted their spending in the current economic climate. This represents increasing interest in research on NLP and the growing reputation of IJCNLP as an international event. The 363 submissions include 235 regular, 86 short, and 42 poster paper submissions from more than 37 countries. In particular, approximately 63% of the papers are from 14 countries and areas in Asia Pacific, 18% from 14 countries in Europe, 14% from the United States and Canada; in addition, 4% of the papers are from the Middle East and Africa, and 1% come from South America.

We would like to thank all the authors for submitting papers to IJCNLP 2013. The significant increase in the number of submissions, the topics covered and the wide range of demographic areas represent a rapid and steady growth of our field and hold promise for a bright future. We would also like to thank the 23 area chairs and 439 program committee members for writing over 1078 reviews and meta-reviews and for paving the way for the final paper selection. Of all 363 submissions, a total of 88 papers were accepted as regular papers, representing a healthy 24.4% acceptance rate. Additional 56 papers were accepted as short papers, which, together with regular papers, represent a 39.8% acceptance rate. In addition, 74 papers were accepted as poster papers. Due to various reasons, some authors of accepted papers chose to withdraw their submissions afterwards. As a result, we have 85 regular papers (23.4% acceptance rate), 53 short papers (38.0% acceptance rate), and 62 poster papers. All the regular and short papers are presented orally, and all the poster papers are presented in the plenary poster session. We are extremely grateful to the area chairs and program committee members for all their hard work, without which the preparation of this program would not have been possible. The help of PC coordinators is also much appreciated.

We are delighted to have two keynote speakers addressing different aspects of NLP in IJCNLP 2013. Hwee Tou Ng will present a talk about improving students' writing with automated grammatical error correction, including the review of recent research and advances in grammatical error correction. Roberto Navigli will present a talk about BabelNet 2.0, a very large multilingual semantic network that covers 50 languages and provides both lexicographic and encyclopedic knowledge for all the open-class parts of speech. These plenary talks will surely be not only informative but also enlightening to the audience, leading to many innovative research ideas. We would like to thank General Chair Hsin-Hsi Chen, the Local Arrangements Committee headed by Hitoshi Isahara, and the AFNLP Conference Coordination Committee chaired by Yuji Matsumoto, for their help and advice. Thanks to Jing Jiang and Lun-Wei Ku, the Publication Committee Chairs, for putting the proceedings together, and all the other committee chairs for their great work.

We hope that you enjoy the conference!

Ruslan Mitkov, University of Wolverhampton, England, United Kingdom
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Conference Program

October 15, 2013 (Tuesday)

09:00-09:20 Opening

09:20-10:20 Keynote Speech - Hwee Tou Ng (National University of Singapore)

10:20-10:50 Coffee Break

10:50-12:05 Regular Papers

Information Extraction I

10:50–11:15 *Semi-Supervised Answer Extraction from Discussion Forums*
Rose Catherine, Rashmi Gangadharaiah, Karthik Visweswariah and Dinesh Raghu

11:15–11:40 *WordTopic-MultiRank: A New Method for Automatic Keyphrase Extraction*
Fan Zhang, Lian'en Huang and Bo Peng

11:40–12:05 *Towards Contextual Healthiness Classification of Food Items - A Linguistic Approach*
Michael Wiegand and Dietrich Klakow

Information Retrieval I

10:50–11:15 *Learning a Replacement Model for Query Segmentation with Consistency in Search Logs*
Wei Zhang, Yunbo Cao, Chin-Yew Lin, Jian Su and Chew-Lim Tan

11:15–11:40 *Precise Information Retrieval Exploiting Predicate-Argument Structures*
Daisuke Kawahara, Keiji Shinzato, Tomohide Shibata and Sadao Kurohashi

11:40–12:05 *Global Model for Hierarchical Multi-Label Text Classification*
Yugo Murawaki

October 15, 2013 (Tuesday) (continued)

Syntax and Semantics

10:50–11:15 *(Pre-)Annotation of Topic-Focus Articulation in Prague Czech-English Dependency Treebank*
Jiří Mírovský, Kateřina Rysová, Magdaléna Rysová and Eva Hajičová

11:15–11:40 *Animacy Acquisition Using Morphological Case*
Riyaz Ahmad Bhat and Dipti Misra Sharma

11:40–12:05 *The Complexity of Math Problems – Linguistic, or Computational?*
Takuya Matsuzaki, Hidenao Iwane, Hirokazu Anai and Noriko Arai

Pragmatics and Discourse

10:50–11:15 *Hybrid Models for Lexical Acquisition of Correlated Styles*
Julian Brooke and Graeme Hirst

11:15–11:40 *Introducing the Prague Discourse Treebank 1.0*
Lucie Poláková, Jiří Mírovský, Anna Nedoluzhko, Pavlína Jínová, Šárka Zikánová and Eva Hajičová

11:40–12:05 *Multilingual Mention Detection for Coreference Resolution*
Olga Uryupina and Alessandro Moschitti

12:05-13:30 Lunch

13:30-15:10 Regular Papers

October 15, 2013 (Tuesday) (continued)

Text Mining

13:30–13:55 *A Weakly Supervised Bayesian Model for Violence Detection in Social Media*
Amparo Elizabeth Cano Basave, Yulan He, Kang Liu and Jun Zhao

13:55–14:20 *Detecting Spammers in Community Question Answering*
Zhuoye Ding, Yeyun Gong, Yaqian Zhou, Qi Zhang and Xuanjing Huang

14:20–14:45 *Chinese Informal Word Normalization: an Experimental Study*
Aobo Wang, Min-Yen Kan, Daniel Andrade, Takashi Onishi and Kai Ishikawa

14:45–15:10 *Feature Selection Using a Semantic Hierarchy for Event Recognition and Type Classification*
Yoonjae Jeong and Sung-Hyon Myaeng

Phonology and Morphology

13:30–13:55 *Romanization-based Approach to Morphological Analysis in Korean SMS Text Processing*
Youngsam Kim and Hyopil Shin

13:55–14:20 *Efficient Word Lattice Generation for Joint Word Segmentation and POS Tagging in Japanese*
Nobuhiro Kaji and Masaru Kitsuregawa

14:20–14:45 *A Simple Approach to Unknown Word Processing in Japanese Morphological Analysis*
Ryohei Sasano, Sadao Kurohashi and Manabu Okumura

14:45–15:10 *Chinese Word Segmentation by Mining Maximized Substrings*
Mo Shen, Daisuke Kawahara and Sadao Kurohashi

October 15, 2013 (Tuesday) (continued)

POS Tagging and Parsing

13:30–13:55 *Capturing Long-distance Dependencies in Sequence Models: A Case Study of Chinese Part-of-speech Tagging*
Weiwei Sun, Xiaochang Peng and Xiaojun Wan

13:55–14:20 *Exploring Semantic Information in Hindi WordNet for Hindi Dependency Parsing*
Sambhav Jain, Naman Jain, Aniruddha Tammewar, Riyaz Ahmad Bhat and Dipti Sharma

14:20–14:45 *Towards Robust Cross-Domain Domain Adaptation for Part-of-Speech Tagging*
Tobias Schnabel and Hinrich Schütze

14:45–15:10 *Dependency Parsing for Identifying Hungarian Light Verb Constructions*
Veronika Vincze, János Zsibrita and István Nagy T.

Dialogue and Dialogue Systems

13:30–13:55 *Written Dialog and Social Power: Manifestations of Different Types of Power in Dialog Behavior*
Vinodkumar Prabhakaran and Owen Rambow

13:55–14:20 *Evaluation of the Scusi? Spoken Language Interpretation System – A Case Study*
Thomas Kleinbauer, Ingrid Zukerman and Su Nam Kim

14:20–14:45 *A Noisy Channel Approach to Error Correction in Spoken Referring Expressions*
Su Nam Kim, Ingrid Zukerman, Thomas Kleinbauer and Farshid Zavareh

14:45–15:10 *Natural Language Query Refinement for Problem Resolution from Crowd-Sourced Semi-Structured Data*
Rashmi Gangadharaiah and Balakrishnan Narayanaswamy

15:10-15:40 Coffee Break

15:40-17:45 Regular Papers

October 15, 2013 (Tuesday) (continued)

Machine Translation I

15:40–16:05 *Ensemble Triangulation for Statistical Machine Translation*
Majid Razmara and Anoop Sarkar

16:05–16:30 *Robust Transliteration Mining from Comparable Corpora with Bilingual Topic Models*
John Richardson, Toshiaki Nakazawa and Sadao Kurohashi

16:30–16:55 *SuMT: A Framework of Summarization and MT*
Houda Bouamor, Behrang Mohit and Kemal Oflazer

16:55–17:15 *Tuning SMT with a Large Number of Features via Online Feature Grouping*
Lemao Liu, Tiejun Zhao, Taro Watanabe and Eiichiro Sumita

17:15–17:35 *Multimodal Comparable Corpora as Resources for Extracting Parallel Data: Parallel Phrases Extraction*
Haithem Afli, Loïc Barrault and Holger Schwenk

Information Extraction II

15:40–16:05 *Bootstrapping Large-scale Named Entities using URL-Text Hybrid Patterns*
Chao Zhang, Shiqi Zhao and Haifeng Wang

16:05–16:30 *Feature-Rich Segment-Based News Event Detection on Twitter*
Yanxia Qin, Yue Zhang, Min Zhang and Dequan Zheng

16:30–16:55 *Building Chinese Event Type Paradigm Based on Trigger Clustering*
Xiao Ding, Bing Qin and Ting Liu

16:55–17:20 *Chinese Named Entity Abbreviation Generation Using First-Order Logic*
Huan Chen, Qi Zhang, Jin Qian and Xuanjing Huang

17:20–17:45 *Full-coverage Identification of English Light Verb Constructions*
István Nagy T., Veronika Vincze and Richárd Farkas

October 15, 2013 (Tuesday) (continued)

Recent NLP Applications I

15:40–16:05 *Detecting Deceptive Opinions with Profile Compatibility*
Vanessa Wei Feng and Graeme Hirst

16:05–16:30 *Behind the Times: Detecting Epoch Changes using Large Corpora*
Octavian Popescu and Carlo Strapparava

16:30–16:55 *How Noisy Social Media Text, How Diffrnt Social Media Sources?*
Timothy Baldwin, Paul Cook, Marco Lui, Andrew MacKinlay and Li Wang

16:55–17:20 *Who Had the Upper Hand? Ranking Participants of Interactions Based on Their Relative Power*
Vinodkumar Prabhakaran, Ajita John and Dorée D. Seligmann

17:20–17:45 *Readability Indices for Automatic Evaluation of Text Simplification Systems: A Feasibility Study for Spanish*
Sanja Štajner and Horacio Saggion

Language Resources I

15:40–16:05 *Weasels, Hedges and Peacocks: Discourse-level Uncertainty in Wikipedia Articles*
Veronika Vincze

16:05–16:30 *Automatically Developing a Fine-grained Arabic Named Entity Corpus and Gazetteer by utilizing Wikipedia*
Fahd Alotaibi and Mark Lee

16:30–16:55 *Ranking Translation Candidates Acquired from Comparable Corpora*
Rima Harastani, Béatrice Daille and Emmanuel Morin

16:55–17:20 *Using the Semantic-Syntactic Interface for Reliable Arabic Modality Annotation*
Rania Al-Sabbagh, Jana Diesner and Roxana Girju

17:20–17:45 *Mapping Rules for Building a Tunisian Dialect Lexicon and Generating Corpora*
Rahma Boujelbane, Mariem Ellouze Khemekhem and Lamia Hadrich Belguith

19:30-21:30 Reception (ANA Crowne Plaza Hotel Grand Court Nagoya)

October 16, 2013 (Wednesday)

09:00-10:15 Regular Papers

Machine Translation II

09:00–09:25 *Hypothesis Refinement Using Agreement Constraints in Machine Translation*
Ankur Gandhe and Rashmi Gangadharaiah

09:25–09:50 *Scalable Variational Inference for Extracting Hierarchical Phrase-based Translation Rules*
Baskaran Sankaran, Gholamreza Haffari and Anoop Sarkar

09:50–10:15 *A Topic-Triggered Language Model for Statistical Machine Translation*
Heng Yu, Jinsong Su, Yajuan Lv and Qun Liu

Opnion Mining I

09:00–09:25 *Reserved Self-training: A Semi-supervised Sentiment Classification Method for Chinese Microblogs*
Zhiguang Liu, Xishuang Dong, Yi Guan and Jinfeng Yang

09:25–09:50 *Enhancing Lexicon-Based Review Classification by Merging and Revising Sentiment Dictionaries*
Heeryon Cho, Jong-Seok Lee and Songkuk Kim

09:50–10:15 *Exploring the Effects of Word Roots for Arabic Sentiment Analysis*
Shereen Oraby, Yasser El-Sonbaty and Mohamad Abou El-Nasr

October 16, 2013 (Wednesday) (continued)

Semantic Processing I

09:00–09:25 *Topical Key Concept Extraction from Folksonomy*
Han Xue, Bing Qin, Ting Liu and Chao Xiang

09:25–09:50 *Uncovering Distributional Differences between Synonyms and Antonyms in a Word Space Model*
Silke Scheible, Sabine Schulte im Walde and Sylvia Springorum

09:50–10:15 *Multilingual Word Sense Disambiguation Using Wikipedia*
Bharath Dandala, Rada Mihalcea and Razvan Bunescu

Statistical and ML Language Modeling I

09:00–09:25 *Semantic v.s. Positions: Utilizing Balanced Proximity in Language Model Smoothing for Information Retrieval*
Rui Yan, Han Jiang, Mirella Lapata, Shou-De Lin, Xueqiang Lv and Xiaoming Li

09:25–09:50 *An Unsupervised Parameter Estimation Algorithm for a Generative Dependency N-gram Language Model*
Chenchen Ding and Mikio Yamamoto

09:50–10:15 *Learning a Product of Experts with Elitist Lasso*
Mengqiu Wang and Christopher D. Manning

10:15-10:45 Coffee Break

10:45-12:00 Regular Papers

October 16, 2013 (Wednesday) (continued)

Information Extraction III / Question Answering

10:45–11:10 *Learning Efficient Information Extraction on Heterogeneous Texts*
Henning Wachsmuth, Benno Stein and Gregor Engels

11:10–11:35 *TopicRank: Graph-Based Topic Ranking for Keyphrase Extraction*
Adrien Bougouin, Florian Boudin and Béatrice Daille

11:35–12:00 *Understanding the Semantic Intent of Natural Language Query*
Juan Xu, Qi Zhang and Xuanjing Huang

Opnion Mining II

10:45–11:10 *Sentiment Classification for Movie Reviews in Chinese Using Parsing-based Methods*
Wen-Juan Hou and Chuang-Ping Chang

11:10–11:35 *Sentiment Aggregation using ConceptNet Ontology*
Subhabrata Mukherjee and Sachindra Joshi

11:35–12:00 *Detecting Cyberbullying Entries on Informal School Websites Based on Category Relevance Maximization*
Taisei Nitta, Fumito Masui, Michal Ptaszynski, Yasutomo Kimura, Rafal Rzepka and Kenji Araki

Semantic Processing II

10:45–11:10 *A Lexicon-based Investigation of Research Issues in Japanese Factuality Analysis*
Kazuya Narita, Junta Mizuno and Kentaro Inui

11:10–11:35 *A Hierarchical Semantics-Aware Distributional Similarity Scheme*
Shuqi Sun, Ke Sun, Shiqi Zhao, Haifeng Wang, Muyun Yang and Sheng Li

11:35–12:00 *Labeled Alignment for Recognizing Textual Entailment*
Xiaolin Wang, Hai Zhao and Bao-Liang Lu

October 16, 2013 (Wednesday) (continued)

Statistical and ML Language Modeling II

10:45–11:10 *Context-Based Chinese Word Segmentation using SVM Machine-Learning Algorithm without Dictionary Support*
Chia-ming Lee and Chien-Kang Huang

11:10–11:35 *A Common Case of Jekyll and Hyde: The Synergistic Effect of Using Divided Source Training Data for Feature Augmentation*
Yan Song and Fei Xia

11:35–12:00 *Detecting Polysemy in Hard and Soft Cluster Analyses of German Preposition Vector Spaces*
Sylvia Springorum, Sabine Schulte im Walde and Jason Utt

12:00-13:10 Lunch

13:10-15:30 Short Papers

Recent NLP Applications / Text Summarization / Opinion Mining

13:10–13:30 *Generalized Abbreviation Prediction with Negative Full Forms and Its Application on Improving Chinese Web Search*
Xu Sun, Wenjie Li, Fanqi Meng and Houfeng Wang

13:30–13:50 *Prosody-Based Unsupervised Speech Summarization with Two-Layer Mutually Reinforced Random Walk*
Sujay Kumar Jauhar, Yun-Nung Chen and Florian Metze

13:50–14:10 *Mining the Gaps: Towards Polynomial Summarization*
Marina Litvak and Natalia Vanetik

14:10–14:30 *Detecting Domain Dedicated Polar Words*
Raksha Sharma and Pushpak Bhattacharyya

14:30–14:50 *Can I Hear You? Sentiment Analysis on Medical Forums*
Tanveer Ali, David Schramm, Marina Sokolova and Diana Inkpen

14:50–15:10 *Construction of Emotional Lexicon Using Potts Model*
Braja Gopal Patra, Hiroya Takamura, Dipankar Das, Manabu Okumura and Sivaji Bandyopadhyay

15:10–15:30 *Suicidal Tendencies: The Automatic Classification of Suicidal and Non-Suicidal Lyricists Using NLP*
Matthew Mulholland and Joanne Quinn

October 16, 2013 (Wednesday) (continued)

Language Resources / Information Extraction / Text Mining

13:10–13:30 *Unsupervised Word Class Induction for Under-resourced Languages: A Case Study on Indonesian*
Meladel Mistica, Jey Han Lau and Timothy Baldwin

13:30–13:50 *An Efficient Active Learning Framework for New Relation Types*
Lisheng Fu and Ralph Grishman

13:50–14:10 *Parsing Dependency Paths to Identify Event-Argument Relations*
Seung-Cheol Baek and Jong Park

14:10–14:30 *Augmentable Paraphrase Extraction Framework*
MeiHua Chen, YiChun Chen, ShihTing Huang and Jason S. Chang

14:30–14:50 *Automatic Prediction of Evidence-based Recommendations via Sentence-level Polarity Classification*
Abeed Sarker, Diego Mollá-Aliod and Cécile Paris

14:50–15:10 *Clustering Microtext Streams for Event Identification*
Jie Yin

15:10–15:30 *Automatic Corpora Construction for Text Classification*
Dandan Wang, Qingcai Chen, Xiaolong Wang and Bingyang Yu

Information Retrieval / NLP for Educational Applications / Phonology and Morphology

13:10–13:30 *Learning to Generate Diversified Query Interpretations using Biconvex Optimization*
Ramakrishna Bairi, Ambha A and Ganesh Ramakrishnan

13:30–13:50 *Learning Based Approaches for Vietnamese Question Classification Using Keywords Extraction from the Web*
Dang Tran, Cuong Chu, Son Pham and Minh Nguyen

13:50–14:10 *Detecting Bot-Answerable Questions in Ubuntu Chat*
David Uthus and David Aha

14:10–14:30 *Alignment-based Annotation of Proofreading Texts toward Professional Writing Assistance*
Ngan Nguyen and Yusuke Miyao

October 16, 2013 (Wednesday) (continued)

14:30–14:50 *Toward Automatic Processing of English Metalanguage*
Shomir Wilson

14:50–15:10 *On the Effectiveness of Using Syntactic and Shallow Semantic Tree Kernels for Automatic Assessment of Essays*
Yllias Chali and Sadid A. Hasan

15:10–15:30 *Little by Little: Semi Supervised Stemming through Stem Set Minimization*
Vasudevan N and Pushpak Bhattacharyya

Semantic Processing / Pragmatics and Discourse

13:10–13:30 *What Information is Helpful for Dependency Based Semantic Role Labeling*
Yanyan Luo, Kevin Duh and Yuji Matsumoto

13:30–13:50 *Classifying Taxonomic Relations between Pairs of Wikipedia Articles*
Or Biran and Kathleen McKeown

13:50–14:10 *A Rule System for Chinese Time Entity Recognition by Comprehensive Linguistic Study*
Hongzhi Xu and Chu-Ren Huang

14:10–14:30 *Financial Sentiment Analysis for Risk Prediction*
Chuan-Ju Wang, Ming-Feng Tsai, Tse Liu and Chin-Ting Chang

14:30–14:50 *Sense Disambiguation: From Natural Language Words to Mathematical Terms*
Minh-Quoc Nghiem, Giovanni Yoko Kristianto, Goran Topic and Akiko Aizawa

14:50–15:10 *Adapting a State-of-the-art Anaphora Resolution System for Resource-poor Language*
Utpal Sikdar, Asif Ekbal, Sriparna Saha, Olga Uryupina and Massimo Poesio

15:10–15:30 *Chinese Event Coreference Resolution: Understanding the State of the Art*
Chen Chen and Vincent Ng

15:30-17:00 Poster Presentations and System Demonstrations

A Two-Step Named Entity Recognizer for Open-Domain Search Queries
Andreas Eiselt and Alejandro Figueroa

October 16, 2013 (Wednesday) (continued)

A Comparison of Centrality Measures for Graph-Based Keyphrase Extraction
Florian Boudin

Translating Chinese Unknown Words by Automatically Acquired Templates
Ming-Hong Bai, Yu-Ming Hsieh, Keh-Jiann Chen and Jason S. Chang

Multilingual Lexicon Bootstrapping - Improving a Lexicon Induction System Using a Parallel Corpus
Patrick Ziering, Lonneke van der Plas and Hinrich Schütze

Mining Japanese Compound Words and Their Pronunciations from Web Pages and Tweets
Xianchao Wu

A Factoid Question Answering System Using Answer Pattern Matching
Nagehan Pala Er and Ilyas Cicekli

Chinese Short Text Classification Based on Domain Knowledge
Xiao Feng, Yang Shen, Chengyong Liu, Wei Liang and Shuwu Zhang

Applying Graph-based Keyword Extraction to Document Retrieval
Youngsam Kim, Munhyong Kim, Andrew Cattle, Julia Otmakhova, Suzi Park and Hyopil Shin

Semi-supervised Classification of Twitter Messages for Organization Name Disambiguation
Shu Zhang, Jianwei Wu, Dequan Zheng, Yao Meng and Hao Yu

Word in a Dictionary is used by Numerous Users
Eiji Aramaki, Sachiko Maskawa, Mai Miyabe, Mizuki Morita and Sachi Yasuda

Extracting Evaluative Conditions from Online Reviews: Toward Enhancing Opinion Mining
Yuki Nakayama and Atsushi Fujii

Cognate Production using Character-based Machine Translation
Lisa Beinborn, Torsten Zesch and Iryna Gurevych

An Empirical Study of Combing Multiple Models in Bengali Question Classification
Somnath Banerjee and Sivaji Bandyopadhyay

October 16, 2013 (Wednesday) (continued)

A Two-Stage Classifier for Sentiment Analysis
Dai Quoc Nguyen, Dat Quoc Nguyen and Son Bao Pham

Exploiting User Search Sessions for the Semantic Categorization of Question-like Informational Search Queries
Alejandro Figueroa and Guenter Neumann

Influence of Part-of-Speech and Phrasal Category Universal Tag-set in Tree-to-Tree Translation Models
Francisco Oliveira, Derek F. Wong, Lidia S. Chao, Liang Tian and Liangye He

Interest Analysis using PageRank and Social Interaction Content
Chung-chi Huang and Lun-Wei Ku

Time Series Topic Modeling and Bursty Topic Detection of Correlated News and Twitter
Daichi Koike, Yusuke Takahashi, Takehito Utsuro, Masaharu Yoshioka and Noriko Kando

A Distant Supervision Approach for Identifying Perspectives in Unstructured User-Generated Text
Attapol Thamrongrattanarit, Colin Pollock, Benjamin Goldenberg and Jason Fennell

An Approach of Hybrid Hierarchical Structure for Word Similarity Computing by HowNet
Jiangming Liu, Jinan Xu and Yujie Zhang

Extracting Causes of Emotions from Text
Alena Neviarouskaya and Masaki Aono

Automated Grammar Correction Using Hierarchical Phrase-Based Statistical Machine Translation
Bibek Behera and Pushpak Bhattacharyya

Finding Dependency Parsing Limits over a Large Spanish Corpus
Muntsa Padró, Miguel Ballesteros, Héctor Martínez and Bernd Bohnet

High Quality Dependency Selection from Automatic Parses
Gongye Jin, Daisuke Kawahara and Sadao Kurohashi

Building Specialized Bilingual Lexicons Using Word Sense Disambiguation
Dhouha Bouamor, Nasredine Semmar and Pierre Zweigenbaum

October 16, 2013 (Wednesday) (continued)

Predicate Argument Structure Analysis using Partially Annotated Corpora
Koichiro Yoshino, Shinsuke Mori and Tatsuya Kawahara

Statistical Dialogue Management using Intention Dependency Graph
Koichiro Yoshino, Shinji Watanabe, Jonathan Le Roux and John R. Hershey

Repairing Incorrect Translation with Examples
Junguo Zhu, Muyun Yang, Sheng Li and Tiejun Zhao

Phrase-based Parallel Fragments Extraction from Comparable Corpora
Xiaoyin Fu, Wei Wei, Shixiang Lu, Zhenbiao Chen and Bo Xu

A Hybrid Approach for Anaphora Resolution in Hindi
Praveen Dakwale, Vandan Mujadia and Dipti M Sharma

Structure Cognizant Pseudo Relevance Feedback
Arjun Atreya V, Yogesh Kakde, Pushpak Bhattacharyya and Ganesh Ramakrishnan

Cross-Domain Answer Ranking using Importance Sampling
Anders Johannsen and Anders Søgaard

Morphological Analysis of Tunisian Dialect
Inès Zribi, Mariem Ellouze Khemakhem and Lamia Hadrich Belguith

Disambiguating Explicit Discourse Connectives without Oracles
Anders Johannsen and Anders Søgaard

Updating Rare Term Vector Replacement
Tobias Berka and Marian Vajteršic

Statistical Morphological Analyzer for Hindi
Deepak Kumar Malladi and Prashanth Mannem

Induction of Root and Pattern Lexicon for Unsupervised Morphological Analysis of Arabic
Bilal Khaliq and John Carrol

October 16, 2013 (Wednesday) (continued)

Using Shallow Semantic Parsing and Relation Extraction for Finding Contradiction in Text
Minh Quang Nhat Pham, Minh Le Nguyen and Akira Shimazu

Using Transliteration of Proper Names from Arabic to Latin Script to Improve English-Arabic Word Alignment
Nasredine Semmar and Houda Saadane

A Semi-Supervised Method for Arabic Word Sense Disambiguation Using a Weighted Directed Graph
Laroussi Merhbene, Anis Zouaghi and Mounir Zrigui

Incremental Segmentation and Decoding Strategies for Simultaneous Translation
Mahsa Yarmohammadi, Vivek Kumar Rangarajan Sridhar, Srinivas Bangalore and Baskaran Sankaran

Two Case Studies on Translating Pronouns in a Deep Syntax Framework
Michal Novák, Zdenek Zabokrtsky and Anna Nedoluzhko

Bootstrapping Phrase-based Statistical Machine Translation via WSD Integration
Hien Vu Huy, Phuong-Thai Nguyen, Tung-Lam Nguyen and M.L Nguyen

Orthographic and Morphological Processing for Persian-to-English Statistical Machine Translation
Mohammad Sadegh Rasooli, Ahmed El Kholy and Nizar Habash

Interoperability between Service Composition and Processing Pipeline: Case Study on the Language Grid and UIMA
Trang Mai Xuan, Yohei Murakami, Donghui Lin and Toru Ishida

Improving Calculation of Contextual Similarity for Constructing a Bilingual Dictionary via a Third Language
Takashi Tsunakawa, Yosuke Yamamoto and Hiroyuki Kaji

Two-Stage Pre-ordering for Japanese-to-English Statistical Machine Translation
Sho Hoshino, Yusuke Miyao, Katsuhito Sudoh and Masaaki Nagata

Grammatical Error Correction Using Feature Selection and Confidence Tuning
Yang Xiang, Yaoyun Zhang, Xiaolong Wang, Chongqiang Wei, Wen Zheng, Xiaoqiang Zhou, Yuxiu Hu and Yang Qin

An Online Algorithm for Learning over Constrained Latent Representations using Multiple Views
Ann Clifton, Max Whitney and Anoop Sarkar

October 16, 2013 (Wednesday) (continued)

Synonym Acquisition Using Bilingual Comparable Corpora
Daniel Andrade, Masaaki Tsuchida, Takashi Onishi and Kai Ishikawa

Exploring Verb Frames for Sentence Simplification in Hindi
Ankush Soni, Sambhav Jain and Dipti Misra Sharma

Dirichlet Processes for Joint Learning of Morphology and PoS Tags
Burcu Can and Suresh Manandhar

Parser Accuracy in Quality Estimation of Machine Translation: A Tree Kernel Approach
Rasoul Samad Zadeh Kaljahi, Jennifer Foster, Raphael Rubino, Johann Roturier and Fred Hollowood

Attribute Relation Extraction from Template-inconsistent Semi-structured Text by Leveraging Site-level Knowledge
Yang Liu, Fang Liu, Siwei Lai, Kang Liu, Guangyou Zhou and Jun Zhao

Optimum Parameter Selection for K.L.D. Based Authorship Attribution in Gujarati
Parth Mehta and Prasenjit Majumder

Modeling User Leniency and Product Popularity for Sentiment Classification
Wenliang Gao, Naoki Yoshinaga, Nobuhiro Kaji and Masaru Kitsuregawa

A Generalized LCS Algorithm and Its Application to Corpus Alignment
Jin-Dong Kim

Semantic Naïve Bayes Classifier for Document Classification
How Jing, Yu Tsao, Kuan-Yu Chen and Hsin-Min Wang

Cluster-based Web Summarization
Yves Petinot, Kathleen McKeown and Kapil Thadani

Automated Activity Recognition in Clinical Documents
Camilo Thorne, Marco Montali, Diego Calvanese, Elena Cardillo and Claudio Eccher

Large-Scale Text Collection for Unwritten Languages
Florian R. Hanke and Steven Bird

October 16, 2013 (Wednesday) (continued)

A Self-learning Template Approach for Recognizing Named Entities from Web Text
Qian Liu, Bingyang Liu, Dayong Wu, Yue Liu and Xueqi Cheng

18:00-21:00 Banquet (Port of Nagoya Public Aquarium)

October 17, 2013 (Thursday)

09:00-10:00 Keynote Speech - Roberto Navigli (Sapienza University of Rome)

10:00-10:30 Coffee Break

10:30-12:30 Short Papers

Machine Translation

10:30–10:50 *Accurate Parallel Fragment Extraction from Quasi–Comparable Corpora using Alignment Model and Translation Lexicon*
Chenhui Chu, Toshiaki Nakazawa and Sadao Kurohashi

10:50–11:10 *Meta-level Statistical Machine Translation*
Sajad Ebrahimi, Kourosh Meshgi, Shahram Khadivi and Mohammad Ebrahim Shiri Ahmad Abady

11:10–11:30 *Bayesian Induction of Bracketing Inversion Transduction Grammars*
Markus Saers and Dekai Wu

11:30–11:50 *Estimating the Quality of Translated User-Generated Content*
Raphael Rubino, Jennifer Foster, Rasoul Samad Zadeh Kaljahi, Johann Roturier and Fred Hollowood

11:50–12:10 *Selective Combination of Pivot and Direct Statistical Machine Translation Models*
Ahmed El Kholy, Nizar Habash, Gregor Leusch, Evgeny Matusov and Hassan Sawaf

12:10–12:30 *Multiword Expressions in the Context of Statistical Machine Translation*
Mahmoud Ghoneim and Mona Diab

October 17, 2013 (Thursday) (continued)

Recent NLP Applications / Dialogue and Dialogue Systems

10:30–10:50 *Uncertainty Detection for Natural Language Watermarking*
György Szarvas and Iryna Gurevych

10:50–11:10 *KySS 1.0: a Framework for Automatic Evaluation of Chinese Input Method Engines*
Zhongye Jia and Hai Zhao

11:10–11:30 *Automatic Extraction of Social Networks from Literary Text: A Case Study on Alice in Wonderland*
Apoorv Agarwal, Anup Kotalwar and Owen Rambow

11:30–11:50 *Using the Web to Train a Mobile Device Oriented Japanese Input Method Editor*
Xianchao Wu, Rixin Xiao and Xiaoxin Chen

11:50–12:10 *A Novel Approach Towards Incorporating Context Processing Capabilities in NLIDB System*
Arjun Akula, Rajeev Sangal and Radhika Mamidi

12:10–12:30 *Iterative Development and Evaluation of a Social Conversational Agent*
Annika Silvervarg and Arne Jönsson

POS Tagging and Parsing / Syntax and Semantics / Information Extraction

10:30–10:50 *A Hybrid Morphological Disambiguation System for Turkish*
Mucahid Kutlu and Ilyas Cicekli

10:50–11:10 *A Dynamic Confusion Score for Dependency Arc Labels*
Sambhav Jain and Bhasha Agrawal

11:10–11:30 *Increasing the Quality and Quantity of Source Language Data for Unsupervised Cross-Lingual POS Tagging*
Long Duong, Paul Cook, Steven Bird and Pavel Pecina

11:30–11:50 *Towards the Annotation of Penn TreeBank with Information Structure*
Bernd Bohnet, Alicia Burga and Leo Wanner

11:50–12:10 *Constituency and Dependency Relationship from a Tree Adjoining Grammar and Abstract Categorial Grammars Perspective*
Aleksandre Maskharashvili and Sylvain Pogodalla

October 17, 2013 (Thursday) (continued)

12:10–12:30 *Named Entity Extraction using Information Distance*
Sangameshwar Patil, Sachin Pawar and Girish Palshikar

Statistical and ML Language Modeling

10:30–10:50 *Feature-based Neural Language Model and Chinese Word Segmentation*
Mairgup Mansur, Wenzhe Pei and Baobao Chang

10:50–11:10 *Human-Computer Interactive Chinese Word Segmentation: An Adaptive Dirichlet Process Mixture Model Approach*
Tongfei Chen, Xiaojun Zou, Weimeng Zhu and Junfeng Hu

11:10–11:30 *Effect of Non-linear Deep Architecture in Sequence Labeling*
Mengqiu Wang and Christopher D. Manning

11:30–11:50 *Case Study of Model Adaptation: Transfer Learning and Online Learning*
Kenji Imamura

11:50–12:10 *Source and Translation Classification using Most Frequent Words*
Zahurul Islam and Armin Hoenen

12:10–12:30 *Comparison of Algorithmic and Human Assessments of Sentence Similarity*
John Mersch and R. Raymond Lang

12:30-14:00 Lunch

14:00-16:05 Regular Papers

October 17, 2013 (Thursday) (continued)

Information Extraction IV

14:05–14:30 *Effective Selectional Restrictions for Unsupervised Relation Extraction*
Alan Akbik, Larysa Visengeriyeva, Johannes Kirschnick and Alexander Löser

14:30–14:55 *Bootstrapping Semantic Lexicons for Technical Domains*
Patrick Ziering, Lonneke van der Plas and Hinrich Schütze

14:55–15:20 *Long-Distance Time-Event Relation Extraction*
Alessandro Moschitti, Siddharth Patwardhan and Chris Welty

15:20–15:45 *Unsupervised Extraction of Attributes and Their Values from Product Description*
Keiji Shinzato and Satoshi Sekine

15:45–16:05 *Stance Classification of Ideological Debates: Data, Models, Features, and Constraints*
Kazi Saidul Hasan and Vincent Ng

Language Resources II / Recent NLP Applications II

14:05–14:30 *University Entrance Examinations as a Benchmark Resource for NLP-based Problem Solving*
Yusuke Miyao and Ai Kawazoe

14:30–14:55 *Linguistically Aware Coreference Evaluation Metrics*
Chen Chen and Vincent Ng

14:55–15:20 *An Empirical Assessment of Contemporary Online Media in Ad-Hoc Corpus Creation for Social Events*
Kanika Narang, Seema Nagar, Sameep Mehta, L V Subramaniam and Kuntal Dey

15:20–15:45 *Diagnosing Causes of Reading Difficulty using Bayesian Networks*
Pascual Martínez-Gómez and Akiko Aizawa

15:45–16:05 *Word Co-occurrence Counts Prediction for Bilingual Terminology Extraction from Comparable Corpora*
Amir Hazem and Emmanuel Morin

October 17, 2013 (Thursday) (continued)

Text Summarization / NLP for Educational Applications

14:05–14:30 *Measuring the Effect of Discourse Relations on Blog Summarization*
Shamima Mithun and Leila Kosseim

14:30–14:55 *Supervised Sentence Fusion with Single-Stage Inference*
Kapil Thadani and Kathleen McKeown

14:55–15:20 *Detecting and Correcting Learner Korean Particle Omission Errors*
Ross Israel, Markus Dickinson and Sun-Hee Lee

15:20–15:45 *Automatic Identification of Learners' Language Background Based on Their Writing in Czech*
Katsiaryna Aharodnik, Marco Chang, Anna Feldman and Jirka Hana

16:05-16:35 Coffee Break

16:35-17:15 Best Papers

17:15-17:25 Future Conferences

17:25-17:35 Closing