The 53rd Annual Meeting of the Association for Computational Linguistics and the 7th International Joint Conference on Natural Language Processing

Proceedings of The 2nd Workshop on Natural Language Processing Techniques for Educational Applications

July 31, 2015
Beijing, China
Welcome to the 2nd Workshop on Natural Language Processing Techniques for Educational Applications (NLP-TEA-2), with a Shared Task on Chinese Grammatical Error Diagnosis (CGED).

The development of Natural Language Processing (NLP) has advanced to a level that affects the research landscape of many academic domains and has practical applications in many industrial sectors. On the other hand, educational environment has also been improved to impact the world society, such as the emergence of MOOCs (Massive Open Online Courses). With these trends, this workshop focuses on the NLP techniques applied to the educational environment. Research issues in this direction have gained more and more attention, examples including the activities like the workshops on Innovative Use of NLP for Building Educational Applications since 2005 and educational data mining conferences since 2008.

This is the second workshop held in the Asian area, with the first one NLP-TEA-1 being held in conjunction with the 22nd International Conference in Computer Education (ICCE 2014) from Nov. 30 to Dec. 4, 2014 in Japan. This year, we continue to promote this research line by holding the workshop in conjunction with the 2015 ACL-IJCNLP conference and also holding the second shared task on Chinese Grammatical Error Diagnosis. During this short period between the first and second workshop, we still receive 14 valid submissions for regular session, each of which was reviewed by three experts, and have 9 teams participating in the shared task, with 6 of them submitting their testing results. In total, there are 6 oral papers and 12 posters accepted. We also organize a keynote speech session from the industrial sector in this workshop.

Overall, we would like to promote this line of research and benefit the participants of the workshop and the shared task.

Workshop Chairs
Hsin-Hsi Chen, National Taiwan University
Yuen-Hsien Tseng, National Taiwan Normal University
Yuji Matsumoto, Nara Institute of Science and Technology
Lung Hsiang Wong, Nanyang Technological University
Organizers

Workshop Organizers:
Hsin-Hsi Chen, National Taiwan University
Yuen-Hsien Tseng, National Taiwan Normal University
Yuji Matsumoto, Nara Institute of Science and Technology
Lung Hsiang Wong, Nanyang Technological University

Shared Task Organizers:
Lung-Hao Lee, National Taiwan Normal University
Liang-Chih Yu, Yuan Ze University
Li-Ping Chang, National Taiwan Normal University

Program Committee:
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Trude Heift, Simon Fraser University
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Lun-Wei Ku, Academia Sicina
Lung-Hao Lee, National Taiwan Normal University
Xiaofei Lu, Pennsylvania State University
Detmar Meurers, University of Tubingen
Ildiko Pilan, University of Gothenburg
Benno Stein, Bauhaus-University Weimar
Yukio Tono, Tokyo University of Foreign Studies
Elena Volodina, University of Gothenburg
Houfeng Wang, Peking University
Jinhua Xiong, Chinese Academy of Science
Jui-Feng Yeh, National Chiayi University
Liang-Chih Yu, Yuan Ze University
Marcos Zampieri, Saarland University
Torsten Zesch, University of Duisburg-Essen
Hui Zhang, Facebook Inc.
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Workshop Program

Friday, July 31, 2015

09:30–09:40  Opening Ceremony

09:40–10:30  Invited Speech

09:40–10:30  Big Data-Based Automatic Essay Scoring Service — www.pigai.org
Zhang Yu, Beijing Cikuu Corp.

10:30–11:00  Coffee Break

11:00–12:00  Shared Task Session

11:00–11:20  Overview of the NLP-TEA 2015 Shared Task for Chinese Grammatical Error Diagnosis
Lung-Hao Lee, Liang-Chih Yu and Li-Ping Chang

11:20–11:40  Chinese Grammatical Error Diagnosis by Conditional Random Fields
Shih-Hung Wu, Po-Lin Chen, Liang-Pu Chen, Ping-Che Yang and Ren-Dar Yang

11:40–12:00  NTOU Chinese Grammar Checker for CGED Shared Task
Chuan-Jie Lin and Shao-Heng Chen

12:00–14:00  Lunch
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14:00–15:30 Regular Paper Session

14:00–14:30 Collocation Assistant for Learners of Japanese as a Second Language
Lis Pereira and Yuji Matsumoto

14:30–15:00 Semi-automatic Generation of Multiple-Choice Tests from Mentions of Semantic Relations
Renlong Ai, Sebastian Krause, Walter Kasper, Feiyu Xu and Hans Uszkoreit

15:00–15:30 Interactive Second Language Learning from News Websites
Tao Chen, Naijia Zheng, Yue Zhao, Muthu Kumar Chandrasekaran and Min-Yen Kan

15:30–16:00 Coffee Break

16:00–17:00 Poster Session

16:00–16:05 Bilingual Keyword Extraction and its Educational Application
Chung-Chi Huang, Mei-Hua Chen and Ping-Che Yang

16:05–16:10 Annotating Entailment Relations for Shortanswer Questions
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16:10–16:15 An Automated Scoring Tool for Korean Supply-type Items Based on Semi-Supervised Learning
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16:30–16:35 Salinlahi III: An Intelligent Tutoring System for Filipino Heritage Language Learners
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Closing Remarks