

Tenth International Workshop on Health Text Mining and Information Analysis (LOUHI 2019)

Hong Kong, China
3 November 2019

ISBN: 978-1-7138-0083-5

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© (2019) by the Association for Computational Linguistics
All rights reserved.

Printed with permission by Curran Associates, Inc. (2020)

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

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

<i>Cross-document coreference: An approach to capturing coreference without context</i> Kristin Wright-Bettner, Martha Palmer, Guergana Savova, Piet de Groen and Timothy Miller	1
<i>Comparing the Intrinsic Performance of Clinical Concept Embeddings by Their Field of Medicine</i> John-Jose Nunez and Giuseppe Carenini	11
<i>On the Effectiveness of the Pooling Methods for Biomedical Relation Extraction with Deep Learning</i> Tuan Ngo Nguyen, Franck Dernoncourt and Thien Huu Nguyen	18
<i>Syntax-aware Multi-task Graph Convolutional Networks for Biomedical Relation Extraction</i> Diya Li and Heng Ji	28
<i>BioReddit: Word Embeddings for User-Generated Biomedical NLP</i> Marco Basaldella and Nigel Collier	34
<i>Leveraging Hierarchical Category Knowledge for Data-Imbalanced Multi-Label Diagnostic Text Understanding</i> Shang-Chi Tsai, Ting-Yun Chang and Yun-Nung Chen	39
<i>Experiments with ad hoc ambiguous abbreviation expansion</i> Agnieszka Mykowiecka and Malgorzata Marciniak	44
<i>Multi-Task, Multi-Channel, Multi-Input Learning for Mental Illness Detection using Social Media Text</i> Prasadith Kirinde Gamaarachchige and Diana Inkpen	54
<i>Extracting relevant information from physician-patient dialogues for automated clinical note taking</i> Serena Jeblee, Faiza Khan Khattak, Noah Crampton, Muhammad Mamdani and Frank Rudzicz	65
<i>Biomedical Relation Classification by single and multiple source domain adaptation</i> Sinchani Chakraborty, Sudeshna Sarkar, Pawan Goyal and Mahanandeeswar Gattu	75
<i>Assessing the Efficacy of Clinical Sentiment Analysis and Topic Extraction in Psychiatric Readmission Risk Prediction</i> Elena Alvarez-Mellado, Eben Holderness, Nicholas Miller, Fyonn Dhang, Philip Cawkwell, Kirsten Bolton, James Pustejovsky and Mei-Hua Hall	81
<i>What does the language of foods say about us?</i> Hoang Van, Ahmad Musa, Hang Chen, Stephen Kobourov and Mihai Surdeanu	87
<i>Dreaddit: A Reddit Dataset for Stress Analysis in Social Media</i> Elsbeth Turcan and Kathy McKeown	97
<i>Towards Understanding of Medical Randomized Controlled Trials by Conclusion Generation</i> Alexander Te-Wei Shieh, Yung-Sung Chuang, Shang-Yu Su and Yun-Nung Chen	108
<i>Building a De-identification System for Real Swedish Clinical Text Using Pseudonymised Clinical Text</i> Hanna Berg, Taridzo Chomutare and Hercules Dalianis	118
<i>Automatic rubric-based content grading for clinical notes</i> Wen-wai Yim, Ashley Mills, Harold Chun, Teresa Hashiguchi, Justin Yew and Bryan Lu	126
<i>Dilated LSTM with attention for Classification of Suicide Notes</i> Annika M Schoene, George Lacey, Alexander P Turner and Nina Dethlefs	136

<i>Writing habits and telltale neighbors: analyzing clinical concept usage patterns with sublanguage embeddings</i>	
Denis Newman-Griffis and Eric Fosler-Lussier	146
<i>Recognizing UMLS Semantic Types with Deep Learning</i>	
Isar Nejadgholi, Kathleen C. Fraser, Berry De Bruijn, Muqun Li, Astha LaPlante and Khaldoun Zine El Abidine	157
<i>Ontological attention ensembles for capturing semantic concepts in ICD code prediction from clinical text</i>	
Matus Falis, Maciej Pajak, Aneta Lisowska, Patrick Schrempf, Lucas Deckers, Shadia Mikhael, Sotirios Tsafaris and Alison O’Neil	168
<i>Neural Token Representations and Negation and Speculation Scope Detection in Biomedical and General Domain Text</i>	
Elena Sergeeva, Henghui Zhu, Amir Tahmasebi and Peter Szolovits	178