

33rd AAAI Conference on Artificial Intelligence (AAAI-19)

Volume 8: AAAI Technical Track

- Natural Language Processing

Honolulu, Hawaii, USA
27 January – 1 February 2019

ISBN: 978-1-7138-2856-3

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 Association for the Advancement of Artificial Intelligence
All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact Association for the Advancement of Artificial Intelligence
at the address below.

Association for the Advancement of Artificial Intelligence
2275 East Bayshore Road
Suite 160
Palo Alto, California 94303
USA

Phone: 1-650-328-3123
Fax: 1-650-321-4457

<https://aaai.org/Press/press.php>

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

AAAI TECHNICAL TRACK: NATURAL LANGUAGE PROCESSING

ENRICHING WORD EMBEDDINGS WITH A REGRESSOR INSTEAD OF LABELED CORPORA	6188
<i>Mohamed Abdalla, Magnus Sahlgren, Graeme Hirst</i>	
ONLINE EMBEDDING COMPRESSION FOR TEXT CLASSIFICATION USING LOW RANK MATRIX FACTORIZATION	6196
<i>Anish Acharya, Rahul Goel, Angeliki Metallinou, Inderjit Dhillon</i>	
ANTONYM-SYNONYM CLASSIFICATION BASED ON NEW SUB-SPACE EMBEDDINGS.....	6204
<i>Muhammad Asif Ali, Yifang Sun, Xiaoling Zhou, Wei Wang, Xiang Zhao</i>	
AUTOSENSE MODEL FOR WORD SENSE INDUCTION.....	6212
<i>Reinald Kim Amplayo, Seung-Won Hwang, Min Song</i>	
RE-EVALUATING ADEM: A DEEPER LOOK AT SCORING DIALOGUE RESPONSES.....	6220
<i>Ananya B. Sai, Mithun Das Gupta, Mitesh M. Khapra, Mukundhan Srinivasan</i>	
AUTOMATED RULE BASE COMPLETION AS BAYESIAN CONCEPT INDUCTION	6228
<i>Zied Bouraoui, Steven Schockaert</i>	
GRN: GATED RELATION NETWORK TO ENHANCE CONVOLUTIONAL NEURAL NETWORK FOR NAMED ENTITY RECOGNITION	6236
<i>Hui Chen, Zijia Lin, Guiguang Ding, Jianguang Lou, Yusen Zhang, Borje Karlsson</i>	
INCORPORATING STRUCTURED COMMONSENSE KNOWLEDGE IN STORY COMPLETION	6244
<i>Jiaao Chen, Jianshu Chen, Zhou Yu</i>	
DEEP SHORT TEXT CLASSIFICATION WITH KNOWLEDGE POWERED ATTENTION	6252
<i>Jindong Chen, Yizhou Hu, Jingping Liu, Yanghua Xiao, Haiyun Jiang</i>	
TRANSFER LEARNING FOR SEQUENCE LABELING USING SOURCE MODEL AND TARGET DATA	6260
<i>Lingzhen Chen, Alessandro Moschitti</i>	
TITLE-GUIDED ENCODING FOR KEYPHRASE GENERATION.....	6268
<i>Wang Chen, Yifan Gao, Jiani Zhang, Irwin King, Michael R. Lyu</i>	
CONVOLUTIONAL SPATIAL ATTENTION MODEL FOR READING COMPREHENSION WITH MULTIPLE-CHOICE QUESTIONS.....	6276
<i>Zhipeng Chen, Yiming Cui, Wentao Ma, Shijin Wang, Guoping Hu</i>	
IMPLICIT ARGUMENT PREDICTION AS READING COMPREHENSION	6284
<i>Pengxiang Cheng, Katrin Erk</i>	
RECURRENT STACKING OF LAYERS FOR COMPACT NEURAL MACHINE TRANSLATION MODELS.....	6292
<i>Raj Dabre, Atsushi Fujita</i>	
JOINT EXTRACTION OF ENTITIES AND OVERLAPPING RELATIONS USING POSITION-ATTENTIVE SEQUENCE LABELING	6300
<i>Dai Dai, Xinyan Xiao, Yajuan Lyu, Shan Dou, Qiaoqiao She, Haifeng Wang</i>	

WHAT IS ONE GRAIN OF SAND IN THE DESERT? ANALYZING INDIVIDUAL NEURONS IN DEEP NLP MODELS	6309
<i>Fahim Dalvi, Nadir Durrani, Hassan Sajjad, Yonatan Belinkov, Anthony Bau, James Glass</i>	
MULTI-TASK LEARNING WITH MULTI-VIEW ATTENTION FOR ANSWER SELECTION AND KNOWLEDGE BASE QUESTION ANSWERING	6318
<i>Yang Deng, Yuexiang Xie, Yaliang Li, Min Yang, Nan Du, Wei Fan, Kai Lei, Ying Shen</i>	
TRAINING TEMPORAL WORD EMBEDDINGS WITH A COMPASS	6326
<i>Valerio Di Carlo, Federico Bianchi, Matteo Palmonari</i>	
A PATTERN-BASED APPROACH TO RECOGNIZING TIME EXPRESSIONS	6335
<i>Wentao Ding, Guanji Gao, Linfeng Shi, Yuzhong Qu</i>	
FROM INDEPENDENT PREDICTION TO REORDERED PREDICTION: INTEGRATING RELATIVE POSITION AND GLOBAL LABEL INFORMATION TO EMOTION CAUSE IDENTIFICATION	6343
<i>Zixiang Ding, Huihui He, Mengran Zhang, Rui Xia</i>	
ADAPTING TRANSLATION MODELS FOR TRANSCRIPT DISFLUENCY DETECTION.....	6351
<i>Qianqian Dong, Feng Wang, Zhen Yang, Wei Chen, Shuang Xu, Bo Xu</i>	
EXPLICIT INTERACTION MODEL TOWARDS TEXT CLASSIFICATION	6359
<i>Cunxiao Du, Zhaozheng Chen, Fuli Feng, Lei Zhu, Tian Gan, Liqiang Nie</i>	
“BILINGUAL EXPERT” CAN FIND TRANSLATION ERRORS.....	6367
<i>Kai Fan, Jiayi Wang, Bo Li, Fengming Zhou, Boxing Chen, Luo Si</i>	
EA READER: ENHANCE ATTENTIVE READER FOR CLOZE-STYLE QUESTION ANSWERING VIA MULTI-SPACE CONTEXT FUSION	6375
<i>Chengzhen Fu, Yan Zhang</i>	
GENERATING MULTIPLE DIVERSE RESPONSES FOR SHORT-TEXT CONVERSATION.....	6383
<i>Jun Gao, Wei Bi, Xiaojiang Liu, Junhui Li, Shuming Shi</i>	
STRUCTURED TWO-STREAM ATTENTION NETWORK FOR VIDEO QUESTION ANSWERING	6391
<i>Lianli Gao, Pengpeng Zeng, Jingkuan Song, Yuan-Fang Li, Wu Liu, Tao Mei, Heng Tao Shen</i>	
ABSTRACTIVE TEXT SUMMARIZATION BY INCORPORATING READER COMMENTS	6399
<i>Shen Gao, Xiuying Chen, Piji Li, Zhaochun Ren, Lidong Bing, Dongyan Zhao, Rui Yan</i>	
HYBRID ATTENTION-BASED PROTOTYPICAL NETWORKS FOR NOISY FEW-SHOT RELATION CLASSIFICATION.....	6407
<i>Tianyu Gao, Xu Han, Zhiyuan Liu, Maosong Sun</i>	
PREDICTING AND ANALYZING LANGUAGE SPECIFICITY IN SOCIAL MEDIA POSTS	6415
<i>Yifan Gao, Yang Zhong, Daniel Preotiuc-Pietro, Junyi Jessy Li</i>	
GENERATING DISTRACTORS FOR READING COMPREHENSION QUESTIONS FROM REAL EXAMINATIONS.....	6423
<i>Yifan Gao, Lidong Bing, Piji Li, Irwin King, Michael R. Lyu</i>	
KERNELIZED HASHCODE REPRESENTATIONS FOR RELATION EXTRACTION.....	6431
<i>Sahil Garg, Aram Galstyan, Greg Ver Steeg, Irina Rish, Guillermo Cecchi, Shuyang Gao</i>	
MNCN: A MULTILINGUAL NGRAM-BASED CONVOLUTIONAL NETWORK FOR ASPECT CATEGORY DETECTION IN ONLINE REVIEWS.....	6441
<i>Erfan Ghadery, Sajad Movahedi, Hesham Faili, Azadeh Shakery</i>	

SENTENCE-WISE SMOOTH REGULARIZATION FOR SEQUENCE TO SEQUENCE LEARNING.....	6449
<i>Chengyue Gong, Xu Tan, Di He, Tao Qin</i>	
SWITCH-LSTMS FOR MULTI-CRITERIA CHINESE WORD SEGMENTATION.....	6457
<i>Jingjing Gong, Xinchu Chen, Tao Gui, Xipeng Qiu</i>	
DEEP CASCADE MULTI-TASK LEARNING FOR SLOT FILLING IN ONLINE SHOPPING ASSISTANT	6465
<i>Yu Gong, Xusheng Luo, Yu Zhu, Wenwu Ou, Zhao Li, Muhua Zhu, Kenny Q. Zhu, Lu Duan, Xi Chen</i>	
STORY ENDING GENERATION WITH INCREMENTAL ENCODING AND COMMONSENSE KNOWLEDGE	6473
<i>Jian Guan, Yansen Wang, Minlie Huang</i>	
LONG SHORT-TERM MEMORY WITH DYNAMIC SKIP CONNECTIONS.....	6481
<i>Tao Gui, Qi Zhang, Lujun Zhao, Yaosong Lin, Minlong Peng, Jingjing Gong, Xuanjing Huang</i>	
GAUSSIAN TRANSFORMER: A LIGHTWEIGHT APPROACH FOR NATURAL LANGUAGE INFERENCE	6489
<i>Maosheng Guo, Yu Zhang, Ting Liu</i>	
GIRNET: INTERLEAVED MULTI-TASK RECURRENT STATE SEQUENCE MODELS	6497
<i>Divam Gupta, Tanmoy Chakraborty, Soumen Chakrabarti</i>	
DOCUMENT INFORMED NEURAL AUTOREGRESSIVE TOPIC MODELS WITH DISTRIBUTIONAL PRIOR	6505
<i>Pankaj Gupta, Yatin Chaudhary, Florian Buettner, Hinrich Schütze</i>	
NEURAL RELATION EXTRACTION WITHIN AND ACROSS SENTENCE BOUNDARIES	6513
<i>Pankaj Gupta, Subburam Rajaram, Hinrich Schütze, Thomas Runkler</i>	
PARABANK: MONOLINGUAL BITEXT GENERATION AND SENTENTIAL PARAPHRASING VIA LEXICALLY-CONSTRAINED NEURAL MACHINE TRANSLATION	6521
<i>J. Edward Hu, Rachel Rudinger, Matt Post, Benjamin Van Durme</i>	
READ + VERIFY: MACHINE READING COMPREHENSION WITH UNANSWERABLE QUESTIONS.....	6529
<i>Minghao Hu, Furu Wei, Yuxing Peng, Zhen Huang, Nan Yang, Dongsheng Li</i>	
RECURRENT POISSON PROCESS UNIT FOR SPEECH RECOGNITION	6538
<i>Hengguan Huang, Hao Wang, Brian Mak</i>	
DICTIONARY-GUIDED EDITING NETWORKS FOR PARAPHRASE GENERATION	6546
<i>Shaohan Huang, Yu Wu, Furu Wei, Zhongzhi Luan</i>	
UNSUPERVISED CONTROLLABLE TEXT FORMALIZATION.....	6554
<i>Parag Jain, Abhijit Mishra, Amar Prakash Azad, Karthik Sankaranarayanan</i>	
WORD EMBEDDING AS MAXIMUM A POSTERIORI ESTIMATION	6562
<i>Shoaib Jameel, Zihao Fu, Bei Shi, Wai Lam, Steven Schockaert</i>	
UNDERSTANDING ACTORS AND EVALUATING PERSONAE WITH GAUSSIAN EMBEDDINGS.....	6570
<i>Hannah Kim, Denys Katerenchuk, Daniel Billet, Jun Huan, Haesun Park, Boyang Li</i>	

PREDICTING THE ARGUMENTHOOD OF ENGLISH PREPOSITIONAL PHRASES	6578
<i>Najoung Kim, Kyle Rawlins, Benjamin Van Durme, Paul Smolensky</i>	
SEMANTIC SENTENCE MATCHING WITH DENSELY-CONNECTED RECURRENT AND CO-ATTENTIVE INFORMATION	6586
<i>Seonhoon Kim, Inho Kang, Nojun Kwak</i>	
DYNAMIC COMPOSITIONALITY IN RECURSIVE NEURAL NETWORKS WITH STRUCTURE-AWARE TAG REPRESENTATIONS	6594
<i>Taeuk Kim, Jihun Choi, Daniel Edmiston, Sanghwan Bae, Sang-Goo Lee</i>	
IMPROVING NEURAL QUESTION GENERATION USING ANSWER SEPARATION	6602
<i>Yanghoon Kim, Hwanhee Lee, Joongbo Shin, Kyomin Jung</i>	
DOMAIN AGNOSTIC REAL-VALUED SPECIFICITY PREDICTION	6610
<i>Wei-Jen Ko, Greg Durrett, Junyi Jessy Li</i>	
NEURAL MACHINE TRANSLATION WITH ADEQUACY-ORIENTED LEARNING	6618
<i>Xiang Kong, Zhaopeng Tu, Shuming Shi, Eduard Hovy, Tong Zhang</i>	
FAST AND SIMPLE MIXTURE OF SOFTMAXES WITH BPE AND HYBRID-LIGHTRNN FOR LANGUAGE GENERATION	6626
<i>Xiang Kong, Qizhe Xie, Zihang Dai, Eduard Hovy</i>	
LATTICE CNNs FOR MATCHING BASED CHINESE QUESTION ANSWERING	6634
<i>Yuxuan Lai, Yansong Feng, Xiaohan Yu, Zheng Wang, Kun Xu, Dongyan Zhao</i>	
ZERO-SHOT ADAPTIVE TRANSFER FOR CONVERSATIONAL LANGUAGE UNDERSTANDING	6642
<i>Sungjin Lee, Rahul Jha</i>	
A HUMAN-LIKE SEMANTIC COGNITION NETWORK FOR ASPECT-LEVEL SENTIMENT CLASSIFICATION	6650
<i>Zeyang Lei, Yujiu Yang, Min Yang, Wei Zhao, Jun Guo, Yi Liu</i>	
DEPENDENCY GRAMMAR INDUCTION WITH A NEURAL VARIATIONAL TRANSITION- BASED PARSER	6658
<i>Bowen Li, Jianpeng Cheng, Yang Liu, Frank Keller</i>	
KNOWLEDGE-DRIVEN ENCODE, RETRIEVE, PARAPHRASE FOR MEDICAL IMAGE REPORT GENERATION	6666
<i>Christy Y. Li, Xiaodan Liang, Zhiting Hu, Eric P. Xing</i>	
WHAT SHOULD I LEARN FIRST: INTRODUCING LECTUREBANK FOR NLP EDUCATION AND PREREQUISITE CHAIN LEARNING	6674
<i>Irene Li, Alexander R. Fabbri, Robert R. Tung, Dragomir R. Radev</i>	
DIFFERENTIATED DISTRIBUTION RECOVERY FOR NEURAL TEXT GENERATION	6682
<i>Jianing Li, Yanyan Lan, Jiafeng Guo, Jun Xu, Xueqi Cheng</i>	
TOWARDS PERSONALIZED REVIEW SUMMARIZATION VIA USER-AWARE SEQUENCE NETWORK	6690
<i>Junjie Li, Haoran Li, Chengqing Zong</i>	
INSUFFICIENT DATA CAN ALSO ROCK! LEARNING TO CONVERSE USING SMALLER DATA WITH AUGMENTATION	6698
<i>Juntao Li, Lisong Qiu, Bo Tang, Dongmin Chen, Dongyan Zhao, Rui Yan</i>	

NEURAL SPEECH SYNTHESIS WITH TRANSFORMER NETWORK	6706
<i>Naihan Li, Shujie Liu, Yanqing Liu, Sheng Zhao, Ming Liu</i>	
A UNIFIED MODEL FOR OPINION TARGET EXTRACTION AND TARGET SENTIMENT PREDICTION	6714
<i>Xin Li, Lidong Bing, Piji Li, Wai Lam</i>	
DIALOGUE GENERATION: FROM IMITATION LEARNING TO INVERSE REINFORCEMENT LEARNING	6722
<i>Ziming Li, Julia Kiseleva, Maarten De Rijke</i>	
DEPENDENCY OR SPAN, END-TO-END UNIFORM SEMANTIC ROLE LABELING	6730
<i>Zuchao Li, Shexia He, Hai Zhao, Yiqing Zhang, Zhuosheng Zhang, Xi Zhou, Xiang Zhou</i>	
A GENERALIZED IDIOM USAGE RECOGNITION MODEL BASED ON SEMANTIC COMPATIBILITY	6738
<i>Changsheng Liu, Rebecca Hwa</i>	
LEVERAGING WEB SEMANTIC KNOWLEDGE IN WORD REPRESENTATION LEARNING	6746
<i>Haoyan Liu, Lei Fang, Jian-Guang Lou, Zhoujun Li</i>	
EXPLOITING THE GROUND-TRUTH: AN ADVERSARIAL IMITATION BASED KNOWLEDGE DISTILLATION APPROACH FOR EVENT DETECTION	6754
<i>Jian Liu, Yubo Chen, Kang Liu</i>	
CONTEXTUALIZED NON-LOCAL NEURAL NETWORKS FOR SEQUENCE LEARNING	6762
<i>Pengfei Liu, Shuaichen Chang, Xuanjing Huang, Jian Tang, Jackie Chi Kit Cheung</i>	
FANDA: A NOVEL APPROACH TO PERFORM FOLLOW-UP QUERY ANALYSIS	6770
<i>Qian Liu, Bei Chen, Jian-Guang Lou, Ge Jin, Dongmei Zhang</i>	
UNSUPERVISED POST-PROCESSING OF WORD VECTORS VIA CONCEPTOR NEGATION	6778
<i>Tianlin Liu, Lyle Ungar, João Sedoc</i>	
HIERARCHICAL ENCODER WITH AUXILIARY SUPERVISION FOR NEURAL TABLE-TO- TEXT GENERATION: LEARNING BETTER REPRESENTATION FOR TABLES	6786
<i>Tianyu Liu, Fuli Luo, Qiaolin Xia, Shuming Ma, Baobao Chang, Zhifang Sui</i>	
LEARNING PERSONALIZED END-TO-END GOAL-ORIENTED DIALOG	6794
<i>Liangchen Luo, Wenhao Huang, Qi Zeng, Zaiqing Nie, Xu Sun</i>	
SAM-NET: INTEGRATING EVENT-LEVEL AND CHAIN-LEVEL ATTENTIONS TO PREDICT WHAT HAPPENS NEXT	6802
<i>Shangwen Lv, Wanhui Qian, Longtao Huang, Jizhong Han, Songlin Hu</i>	
LIVEBOT: GENERATING LIVE VIDEO COMMENTS BASED ON VISUAL AND TEXTUAL CONTEXTS	6810
<i>Shuming Ma, Lei Cui, Damai Dai, Furu Wei, Xu Sun</i>	
DIALOGUERNN: AN ATTENTIVE RNN FOR EMOTION DETECTION IN CONVERSATIONS	6818
<i>Navonil Majumder, Soujanya Poria, Devamanyu Hazarika, Rada Mihalcea, Alexander Gelbukh, Erik Cambria</i>	
WEAKLY-SUPERVISED HIERARCHICAL TEXT CLASSIFICATION	6826
<i>Yu Meng, Jiaming Shen, Chao Zhang, Jiawei Han</i>	

CGMH: CONSTRAINED SENTENCE GENERATION BY METROPOLIS-HASTINGS SAMPLING.....	6834
<i>Ning Miao, Hao Zhou, Lili Mou, Rui Yan, Lei Li</i>	
SPELL ONCE, SUMMON ANYWHERE: A TWO-LEVEL OPEN-VOCABULARY LANGUAGE MODEL.....	6843
<i>Sabrina J. Mielke, Jason Eisner</i>	
ONE FOR ALL: NEURAL JOINT MODELING OF ENTITIES AND EVENTS.....	6851
<i>Trung Minh Nguyen, Thien Huu Nguyen</i>	
COMBINING FACT EXTRACTION AND VERIFICATION WITH NEURAL SEMANTIC MATCHING NETWORKS	6859
<i>Yixin Nie, Haonan Chen, Mohit Bansal</i>	
ANALYZING COMPOSITIONALITY-SENSITIVITY OF NLI MODELS	6867
<i>Yixin Nie, Yicheng Wang, Mohit Bansal</i>	
HAS-QA: HIERARCHICAL ANSWER SPANS MODEL FOR OPEN-DOMAIN QUESTION ANSWERING	6875
<i>Liang Pang, Yanyan Lan, Jiafeng Guo, Jun Xu, Lixin Su, Xueqi Cheng</i>	
PARAPHRASE DIVERSIFICATION USING COUNTERFACTUAL DEBIASING	6883
<i>Sunghyun Park, Seung-Won Hwang, Fuxiang Chen, Jaegul Choo, Jung-Woo Ha, Sunghun Kim, Jinyeong Yim</i>	
FOUND IN TRANSLATION: LEARNING ROBUST JOINT REPRESENTATIONS BY CYCLIC TRANSLATIONS BETWEEN MODALITIES.....	6892
<i>Hai Pham, Paul Pu Liang, Thomas Manzini, Louis-Philippe Morency, Barnabás Póczos</i>	
UNSEEN WORD REPRESENTATION BY ALIGNING HETEROGENEOUS LEXICAL SEMANTIC SPACES.....	6900
<i>Victor Prokhorov, Mohammad Taher Pilehvar, Dimitri Kartsaklis, Pietro Lio, Nigel Collier</i>	
DATA-TO-TEXT GENERATION WITH CONTENT SELECTION AND PLANNING.....	6908
<i>Ratish Puduppully, Li Dong, Mirella Lapata</i>	
JOINTLY LEARNING TO LABEL SENTENCES AND TOKENS	6916
<i>Marek Rei, Anders Søgaard</i>	
ZERO-SHOT NEURAL TRANSFER FOR CROSS-LINGUAL ENTITY LINKING	6924
<i>Shruti Rijhwani, Jiateng Xie, Graham Neubig, Jaime Carbonell</i>	
COALA: A NEURAL COVERAGE-BASED APPROACH FOR LONG ANSWER SELECTION WITH SMALL DATA	6932
<i>Andreas Rücklé, Nafise Sadat Moosavi, Iryna Gurevych</i>	
REVISITING LSTM NETWORKS FOR SEMI-SUPERVISED TEXT CLASSIFICATION VIA MIXED OBJECTIVE FUNCTION.....	6940
<i>Devendra Singh Sachan, Manzil Zaheer, Ruslan Salakhutdinov</i>	
A HIERARCHICAL MULTI-TASK APPROACH FOR LEARNING EMBEDDINGS FROM SEMANTIC TASKS	6949
<i>Victor Sanh, Thomas Wolf, Sebastian Ruder</i>	
ON RESOLVING AMBIGUOUS ANAPHORIC EXPRESSIONS IN IMPERATIVE DISCOURSE.....	6957
<i>Vasanth Sarathy, Matthias Scheutz</i>	

LEARNING SEMANTIC REPRESENTATIONS FOR NOVEL WORDS: LEVERAGING BOTH FORM AND CONTEXT	6965
<i>Timo Schick, Hinrich Schütze</i>	
CHALLENGES IN THE AUTOMATIC ANALYSIS OF STUDENTS' DIAGNOSTIC REASONING.....	6974
<i>Claudia Schulz, Christian M. Meyer, Iryna Gurevych</i>	
ANALYSIS OF JOINT MULTILINGUAL SENTENCE REPRESENTATIONS AND SEMANTIC K-NEAREST NEIGHBOR GRAPHS	6982
<i>Holger Schwenk, Douwe Kiela, Matthijs Douze</i>	
LEARNING TO EMBED SENTENCES USING ATTENTIVE RECURSIVE TREES.....	6991
<i>Jiaxin Shi, Lei Hou, Juanzi Li, Zhiyuan Liu, Hanwang Zhang</i>	
DEEPCHANNEL: SALIENCE ESTIMATION BY CONTRASTIVE LEARNING FOR EXTRACTIVE DOCUMENT SUMMARIZATION.....	6999
<i>Jiaxin Shi, Chen Liang, Lei Hou, Juanzi Li, Zhiyuan Liu, Hanwang Zhang</i>	
A DEEP SEQUENTIAL MODEL FOR DISCOURSE PARSING ON MULTI-PARTY DIALOGUES	7007
<i>Zhouxing Shi, Minlie Huang</i>	
GLOBALTRAIT: PERSONALITY ALIGNMENT OF MULTILINGUAL WORD EMBEDDINGS.....	7015
<i>Farhad Bin Siddique, Dario Bertero, Pascale Fung</i>	
EXPLORING KNOWLEDGE GRAPHS IN AN INTERPRETABLE COMPOSITE APPROACH FOR TEXT ENTAILMENT	7023
<i>Vivian S. Silva, André Freitas, Siegfried Handschuh</i>	
FAST PMI-BASED WORD EMBEDDING WITH EFFICIENT USE OF UNOBSERVED PATTERNS.....	7031
<i>Behrouz Haji Soleimani, Stan Matwin</i>	
DISTANTLY SUPERVISED ENTITY RELATION EXTRACTION WITH ADAPTED MANUAL ANNOTATIONS.....	7039
<i>Changzhi Sun, Yuanbin Wu</i>	
TOWARDS SENTENCE-LEVEL BRAIN DECODING WITH DISTRIBUTED REPRESENTATIONS	7047
<i>Jingyuan Sun, Shaonan Wang, Jiajun Zhang, Chengqing Zong</i>	
A GRAMMAR-BASED STRUCTURAL CNN DECODER FOR CODE GENERATION	7055
<i>Zeyu Sun, Qihao Zhu, Lili Mou, Yingfei Xiong, Ge Li, Lu Zhang</i>	

Author Index