1, TITLE: Attending to Future Tokens for Bidirectional Sequence Generation
https://www.aclweb.org/anthology/D19-1001
AUTHORS: Carolin Lawrence, Bhushan Kotnis, Mathias Niepert
HIGHLIGHT: We propose to make the sequence generation process bidirectional by employing special placeholder tokens.

2, TITLE: Attention is not not Explanation
https://www.aclweb.org/anthology/D19-1002
AUTHORS: Sarah Wiegreffe, Yuval Pinter
HIGHLIGHT: We propose four alternative tests to determine when/whether attention can be used as explanation: a simple uniform-weights baseline; a variance calibration based on multiple random seed runs; a diagnostic framework using frozen weights from pretrained models; and an end-to-end adversarial attention training protocol.

3, TITLE: Practical Obstacles to Deploying Active Learning
https://www.aclweb.org/anthology/D19-1003
AUTHORS: David Lowell, Zachary C. Lipton, Byron C. Wallace
HIGHLIGHT: In this paper, we show that while AL may provide benefits when used with specific models and for particular domains, the benefits of current approaches do not generalize reliably across models and tasks.

4, TITLE: Transfer Learning Between Related Tasks Using Expected Label Proportions
https://www.aclweb.org/anthology/D19-1004
AUTHORS: Matan Ben Noach, Yoav Goldberg
HIGHLIGHT: We propose a novel application of the XR framework for transfer learning between related tasks, where knowing the labels of task A provides an estimation of the label proportion of task B.

5, TITLE: Knowledge Enhanced Contextual Word Representations
https://www.aclweb.org/anthology/D19-1005
AUTHORS: Matthew E. Peters, Mark Neumann, Robert Logan, Roy Schwartz, Vidur Joshi, Sameer Singh, Noah A. Smith
HIGHLIGHT: We propose a general method to embed multiple knowledge bases (KBs) into large scale models, and thereby enhance their representations with structured, human-curated knowledge.

6, TITLE: How Contextual are Contextualized Word Representations? Comparing the Geometry of BERT, ELMo, and GPT-2 Embeddings
https://www.aclweb.org/anthology/D19-1006
AUTHORS: Kawin Ethayarajh
HIGHLIGHT: This suggests that upper layers of contextualizing models produce more context-specific representations, much like how upper layers of LSTMs produce more task-specific representations.

7, TITLE: Room to Glo: A Systematic Comparison of Semantic Change Detection Approaches with Word Embeddings
https://www.aclweb.org/anthology/D19-1007
AUTHORS: Philippa Shoemark, Farhana Ferdousi Liza, Dong Nguyen, Scott Hale, Barbara McGillivray
HIGHLIGHT: We propose a new evaluation framework for semantic change detection and find that (i) using the whole time series is preferable over only comparing between the first and last time points; (ii) independently trained and aligned embeddings perform better than continuously trained embeddings for long time periods; and (iii) that the reference point for comparison matters.

8, TITLE: Correlations between Word Vector Sets
https://www.aclweb.org/anthology/D19-1008
AUTHORS: Vitalii Zhelezniak, April Shen, Daniel Busbridge, Aleksandar Savkov, Nils Hammerla
HIGHLIGHT: Just like cosine similarity is used to compare individual word vectors, we introduce a novel application of the centered kernel alignment (CKA) as a natural generalisation of squared cosine similarity for sets of word vectors.

9, TITLE: Game Theory Meets Embeddings: a Unified Framework for Word Sense Disambiguation
https://www.aclweb.org/anthology/D19-1009
AUTHORS: Rocco Tripodi, Roberto Navigli
HIGHLIGHT: Game-theoretic models, thanks to their intrinsic ability to exploit contextual information, have shown to be particularly suited for the Word Sense Disambiguation task.

10, TITLE: Guided Dialog Policy Learning: Reward Estimation for Multi-Domain Task-Oriented Dialog
https://www.aclweb.org/anthology/D19-1010
AUTHORS: Ryuichi Takanobu, Hanlin Zhu, Minlie Huang
HIGHLIGHT: To this end, we propose Guided Dialog Policy Learning, a novel algorithm based on Adversarial Inverse Reinforcement Learning for joint reward estimation and policy optimization in multi-domain task-oriented dialog.

11, TITLE: Multi-hop Selector Network for Multi-turn Response Selection in Retrieval-based Chatbots
https://www.aclweb.org/anthology/D19-1011
AUTHORS: Chunyuan Yuan, Wei Zhou, Mingming Li, Shangwen Lv, Fuqing Zhu, Jizhong Han, Songlin Hu
HIGHLIGHT: In this paper, we will analyze the side effect of using too many context utterances and propose a multi-hop selector network (MSN) to alleviate the problem.

12, TITLE: MoEL: Mixture of Empathetic Listeners
https://www.aclweb.org/anthology/D19-1012
AUTHORS: Zhaojiang Lin, Andrea Madotto, Jamin Shin, Peng Xu, Pascale Fung
HIGHLIGHT: In this paper, we propose a novel end-to-end approach for modeling empathy in dialogue systems: Mixture of Empathetic Listeners (MoEL).

13, TITLE: Entity-Consistent End-to-end Task-Oriented Dialogue System with KB Retriever
https://www.aclweb.org/anthology/D19-1013
AUTHORS: Libo Qin, Yijia Liu, Wanxiang Che, Haoyang Wen, Yangming Li, Ting Liu
HIGHLIGHT: In this paper, we propose a novel framework which queries the KB in two steps to improve the consistency of generated entities.

14, TITLE: Building Task-Oriented Visual Dialog Systems Through Alternative Optimization Between Dialog Policy and Language Generation
https://www.aclweb.org/anthology/D19-1014
AUTHORS: Mingyang Zhou, Josh Arnold, Zhou Yu
HIGHLIGHT: This paper proposes a novel framework that alternatively trains a RL policy for image guessing and a supervised seq2seq model to improve dialog generation quality.

15, TITLE: DialogueGCN: A Graph Convolutional Neural Network for Emotion Recognition in Conversation
https://www.aclweb.org/anthology/D19-1015
AUTHORS: Deepanway Ghosal, Navonil Majumder, Soujanya Poria, Niyati Chhaya, Alexander Gelbukh
HIGHLIGHT: In this paper, we present Dialogue Graph Convolutional Network (DialogueGCN), a graph neural network based approach to ERC.

16, TITLE: Knowledge-Enriched Transformer for Emotion Detection in Textual Conversations
https://www.aclweb.org/anthology/D19-1016
AUTHORS: Peixiang Zhong, Di Wang, Chunyan Miao
HIGHLIGHT: In this paper, we address these challenges by proposing a Knowledge-Enriched Transformer (KET), where contextual utterances are interpreted using hierarchical self-attention and external commonsense knowledge is dynamically leveraged using a context-aware affective graph attention mechanism.

17, TITLE: Interpretable Relevant Emotion Ranking with Event-Driven Attention
https://www.aclweb.org/anthology/D19-1017
AUTHORS: Yang Yang, Deyu ZHOU, Yulan He, Meng Zhang
HIGHLIGHT: In this paper, we proposed a novel interpretable relevant emotion ranking model with the event information incorporated into a deep learning architecture using the event-driven attentions.

18, TITLE: Justifying Recommendations using Distantly-Labeled Reviews and Fine-Grained Aspects
https://www.aclweb.org/anthology/D19-1018
AUTHORS: Jianmo Ni, Jiacheng Li, Julian McAuley
HIGHLIGHT: We seek to introduce new datasets and methods to address the recommendation justification task.

19, TITLE: Using Customer Service Dialogues for Satisfaction Analysis with Context-Assisted Multiple Instance Learning
https://www.aclweb.org/anthology/D19-1019
AUTHORS: Kaisong Song, Lidong Bing, Wei Gao, Jun Lin, Lujun Zhao, Jiancheng Wang, Changlong Sun, Xiaozhong Liu, Qiong Zhang
HIGHLIGHT: In this paper, we conduct a pilot study on the task of service satisfaction analysis (SSA) based on multi-turn CS dialogues.
We construct two CS dialogue datasets from a top E-commerce platform.

20, TITLE: Leveraging Dependency Forest for Neural Medical Relation Extraction
https://www.aclweb.org/anthology/D19-1020

AUTHORS: Linfeng Song, Yue Zhang, Daniel Gildea, Mo Yu, Zhiguo Wang, jinsong su
HIGHLIGHT: We investigate a method to alleviate this problem by utilizing dependency forests.

21, TITLE: Open Relation Extraction: Relational Knowledge Transfer from Supervised Data to Unsupervised Data
https://www.aclweb.org/anthology/D19-1021
AUTHORS: Ruidong Wu, Yuan Yao, Xu Han, Ruobing Xie, Zhiyuan Liu, Fen Lin, Leyu Lin, Maosong Sun
HIGHLIGHT: To address this issue, we propose Relational Siamese Networks (RSNs) to learn similarity metrics of relations from labeled data of pre-defined relations, and then transfer the relational knowledge to identify novel relations in unlabeled data.

22, TITLE: Improving Relation Extraction with Knowledge-attention
https://www.aclweb.org/anthology/D19-1022
AUTHORS: Pengfei Li, Kezhi Mao, Xuefeng Yang, Qi Li
HIGHLIGHT: We propose a novel knowledge-attention encoder which incorporates prior knowledge from external lexical resources into deep neural networks for relation extraction task.

23, TITLE: Jointly Learning Entity and Relation Representations for Entity Alignment
https://www.aclweb.org/anthology/D19-1023
AUTHORS: Yuting Wu, Xiao Liu, Yansong Feng, Zheng Wang, Dongyan Zhao
HIGHLIGHT: This paper presents a novel joint learning framework for entity alignment.

24, TITLE: Tackling Long-Tailed Relations and Uncommon Entities in Knowledge Graph Completion
https://www.aclweb.org/anthology/D19-1024
AUTHORS: Zihao Wang, Kwunping Lai, Piji Li, Lidong Bing, Wai Lam
HIGHLIGHT: Therefore, we propose a meta-learning framework that aims at handling infrequent relations with few-shot learning and uncommon entities by using textual descriptions.

25, TITLE: Low-Resource Name Tagging Learned with Weakly Labeled Data
https://www.aclweb.org/anthology/D19-1025
AUTHORS: Yixin Cao, Zikun Hu, Tat-seng Chua, Zhiyuan Liu, Heng Ji
HIGHLIGHT: In this paper, we propose a novel neural model for name tagging solely based on weakly labeled (WL) data, so that it can be applied in any low-resource settings.

26, TITLE: Learning Dynamic Context Augmentation for Global Entity Linking
https://www.aclweb.org/anthology/D19-1026
AUTHORS: Xiyuan Yang, Xiaotao Gu, Sheng Lin, Siliang Tang, Yueting Zhuang, Fei Wu, Zhigang Chen, Guoping Hu, Xiang Ren
HIGHLIGHT: In this paper, we propose a simple yet effective solution, called Dynamic Context Augmentation (DCA), for collective EL, which requires only one pass through the mentions in a document.

27, TITLE: Open Event Extraction from Online Text using a Generative Adversarial Network
https://www.aclweb.org/anthology/D19-1027
AUTHORS: Rui Wang, Deyu ZHOU, Yulan He
HIGHLIGHT: To address these limitations, we propose an event extraction model based on Generative Adversarial Nets, called Adversarial-neural Event Model (AEM).

28, TITLE: Learning to Bootstrap for Entity Set Expansion
https://www.aclweb.org/anthology/D19-1028
AUTHORS: Lingyong Yan, Xianpei Han, Le Sun, Ben He
HIGHLIGHT: To address the above two problems, we propose a novel bootstrapping method combining the Monte Carlo Tree Search (MCTS) algorithm with a deep similarity network, which can efficiently estimate delayed feedback for pattern evaluation and adaptively score entities given sparse supervision signals.

29, TITLE: Multi-Input Multi-Output Sequence Labeling for Joint Extraction of Fact and Condition Tuples from Scientific Text
https://www.aclweb.org/anthology/D19-1029
AUTHORS: Tianwen Jiang, Tong Zhao, Bing Qin, Ting Liu, Nitesh Chawla, Meng Jiang
HIGHLIGHT: In this work, we propose a new sequence labeling framework (as well as a new tag schema) to jointly extract the fact and condition tuples from statement sentences.

30, TITLE: Cross-lingual Structure Transfer for Relation and Event Extraction

https://www.aclweb.org/anthology/D19-1030
AUTHORS: Ananya Subburathinam, Di Lu, Heng Ji, Jonathan May, Shih-Fu Chang, Avirup Sil, Clare Voss
HIGHLIGHT: We investigate the suitability of cross-lingual structure transfer techniques for these tasks.

31, TITLE: Uncover the Ground-Truth Relations in Distant Supervision: A Neural Expectation-Maximization Framework
https://www.aclweb.org/anthology/D19-1031
AUTHORS: Junfan Chen, Richong Zhang, Yongyi Mao, Hongyu Guo, Jie Xu
HIGHLIGHT: To cope with this challenge, we propose a novel label-denoising framework that combines neural network with probabilistic modelling, which naturally takes into account the noisy labels during learning.

32, TITLE: Doc2EDAG: An End-to-End Document-level Framework for Chinese Financial Event Extraction
https://www.aclweb.org/anthology/D19-1032
AUTHORS: Shun Zheng, Wei Cao, Wei Xu, Jiang Bian
HIGHLIGHT: To address these challenges, we propose a novel end-to-end model, Doc2EDAG, which can generate an entity-based directed acyclic graph to fulfill the document-level EE (DEE) effectively. To demonstrate the effectiveness of Doc2EDAG, we build a large-scale real-world dataset consisting of Chinese financial announcements with the challenges mentioned above.

33, TITLE: Event Detection with Trigger-Aware Lattice Neural Network
https://www.aclweb.org/anthology/D19-1033
AUTHORS: Ning Ding, Ziran Li, Zhiyuan Liu, Haitao Zheng, Zibo Lin
HIGHLIGHT: To address the two issues simultaneously, we propose the Trigger-aware Lattice Neural Net- work (TLNN).

34, TITLE: A Boundary-aware Neural Model for Nested Named Entity Recognition
https://www.aclweb.org/anthology/D19-1034
AUTHORS: Changmeng Zheng, Yi Cai, Jingyun Xu, Ho-fung Leung, Guandong Xu
HIGHLIGHT: We propose a boundary-aware neural model for nested NER which leverages entity boundaries to predict entity categorical labels.

35, TITLE: Learning the Extraction Order of Multiple Relational Facts in a Sentence with Reinforcement Learning
https://www.aclweb.org/anthology/D19-1035
AUTHORS: Xiangrong Zeng, Shizhu He, Daojian Zeng, Kang Liu, Shengping Liu, Jun Zhao
HIGHLIGHT: In this paper we argue that the extraction order is important in this task.

36, TITLE: CaRe: Open Knowledge Graph Embeddings
https://www.aclweb.org/anthology/D19-1036
AUTHORS: Swapnil Gupta, Sreyash Kenkre, Partha Talukdar
HIGHLIGHT: We fill this gap in the paper and propose Canonicalization-infused Representations (CaRe) for OpenKGs.

37, TITLE: Self-Attention Enhanced CNNs and Collaborative Curriculum Learning for Distantly Supervised Relation Extraction
https://www.aclweb.org/anthology/D19-1037
AUTHORS: Yuyun Huang, Jinhua Du
HIGHLIGHT: In this paper, we propose a novel model that employs a collaborative curriculum learning framework to reduce the effects of mislabelled data.

38, TITLE: Neural Cross-Lingual Relation Extraction Based on Bilingual Word Embedding Mapping
https://www.aclweb.org/anthology/D19-1038
AUTHORS: Jian Ni, Radu Florian
HIGHLIGHT: In this paper, we propose a new approach for cross-lingual RE model transfer based on bilingual word embedding mapping.

39, TITLE: Leveraging 2-hop Distant Supervision from Table Entity Pairs for Relation Extraction
https://www.aclweb.org/anthology/D19-1039
AUTHORS: xiang deng, Huan Sun
HIGHLIGHT: In this paper, we introduce a new strategy named 2-hop DS to enhance distantly supervised RE, based on the observation that there exist a large number of relational tables on the Web which contain entity pairs that share common relations.

40, TITLE: EntEval: A Holistic Evaluation Benchmark for Entity Representations
https://www.aclweb.org/anthology/D19-1040
AUTHORS: Mingda Chen, Zewei Chu, Yang Chen, Karl Stratos, Kevin Gimpel

HIGHLIGHT: In this work, we propose EntEval: a test suite of diverse tasks that require nontrivial understanding of entities including entity typing, entity similarity, entity relation prediction, and entity disambiguation.

41, TITLE: Joint Event and Temporal Relation Extraction with Shared Representations and Structured Prediction
https://www.aclweb.org/anthology/D19-1041
AUTHORS: Rujun Han, Qiang Ning, Nanyun Peng
HIGHLIGHT: We propose a joint event and temporal relation extraction model with shared representation learning and structured prediction.

42, TITLE: Hierarchical Text Classification with Reinforced Label Assignment
https://www.aclweb.org/anthology/D19-1042
AUTHORS: Yuning Mao, Jingjing Tian, Jiawei Han, Xiang Ren
HIGHLIGHT: To solve the mismatch between training and inference as well as modeling label dependencies in a more principled way, we formulate HTC as a Markov decision process and propose to learn a Label Assignment Policy via deep reinforcement learning to determine where to place an object and when to stop the assignment process.

43, TITLE: Investigating Capsule Network and Semantic Feature on Hyperplanes for Text Classification
https://www.aclweb.org/anthology/D19-1043
AUTHORS: Chunning Du, Haifeng Sun, Jingyu Wang, Qi Qi, Jianxin Liao, Chun Wang, Bing Ma
HIGHLIGHT: Therefore, we propose to use capsule networks to construct the vectorized representation of semantics and utilize hyperplanes to decompose each capsule to acquire the specific senses.

44, TITLE: Label-Specific Document Representation for Multi-Label Text Classification
https://www.aclweb.org/anthology/D19-1044
AUTHORS: Lin Xiao, Xin Huang, Boli Chen, Liping Jing
HIGHLIGHT: In this paper, we propose a Label-Specific Attention Network (LSAN) to learn a label-specific document representation.

45, TITLE: Hierarchical Attention Prototypical Networks for Few-Shot Text Classification
https://www.aclweb.org/anthology/D19-1045
AUTHORS: Shengli Sun, Qingfeng Sun, Kevin Zhou, Tengchao Lv
HIGHLIGHT: In this work, we propose a hierarchical attention prototypical networks (HAPN) for few-shot text classification.

46, TITLE: Many Faces of Feature Importance: Comparing Built-in and Post-hoc Feature Importance in Text Classification
https://www.aclweb.org/anthology/D19-1046
AUTHORS: Vivian Lai, Zheng Cai, Chenhao Tan
HIGHLIGHT: In this work, we systematically compare feature importance from built-in mechanisms in a model such as attention values and post-hoc methods that approximate model behavior such as LIME.

47, TITLE: Enhancing Local Feature Extraction with Global Representation for Neural Text Classification
https://www.aclweb.org/anthology/D19-1047
AUTHORS: Guocheng Niu, Hengru Xu, Bolei He, Xinyan Xiao, Hua Wu, Sheng GAO
HIGHLIGHT: This paper proposes a novel Encoder1-Encoder2 architecture, where global information is incorporated into the procedure of local feature extraction from scratch.

48, TITLE: Latent-Variable Generative Models for Data-Efficient Text Classification
https://www.aclweb.org/anthology/D19-1048
AUTHORS: Xiaoan Ding, Kevin Gimpel
HIGHLIGHT: In this paper, we improve generative text classifiers by introducing discrete latent variables into the generative story, and explore several graphical model configurations.

49, TITLE: PaRe: A Paper-Reviewer Matching Approach Using a Common Topic Space
https://www.aclweb.org/anthology/D19-1049
AUTHORS: Omer Anjum, Hongyu Gong, Suma Bhat, Wen-Mei Hwu, JinJun Xiong
HIGHLIGHT: Our approach, the common topic model, jointly models the topics common to the submission and the reviewer's profile while relying on abstract topic vectors.

50, TITLE: Linking artificial and human neural representations of language
https://www.aclweb.org/anthology/D19-1050
AUTHORS: Jon Gauthier, Roger Levy

HIGHLIGHT: What information from an act of sentence understanding is robustly represented in the human brain? We investigate this question by comparing sentence encoding models on a brain decoding task, where the sentence that an experimental participant has seen must be predicted from the fMRI signal evoked by the sentence.

51, TITLE: Neural Text Summarization: A Critical Evaluation
https://www.aclweb.org/anthology/D19-1051
AUTHORS: Wojciech Kryscinski, Nitish Shirish Keskar, Bryan McCann, Caiming Xiong, Richard Socher
HIGHLIGHT: We critically evaluate key ingredients of the current research setup: datasets, evaluation metrics, and models, and highlight three primary shortcomings: 1) automatically collected datasets leave the task underconstrained and may contain noise detrimental to training and evaluation, 2) current evaluation protocol is weakly correlated with human judgment and does not account for important characteristics such as factual correctness, 3) models overfit to layout biases of current datasets and offer limited diversity in their outputs.

52, TITLE: Neural data-to-text generation: A comparison between pipeline and end-to-end architectures
https://www.aclweb.org/anthology/D19-1052
AUTHORS: Thiago Castro Ferreira, Chris van der Lee, Emiel van Miltenburg, Emiel Krahmer
HIGHLIGHT: This study introduces a systematic comparison between neural pipeline and end-to-end data-to-text approaches for the generation of text from RDF triples.

53, TITLE: MoverScore: Text Generation Evaluating with Contextualized Embeddings and Earth Mover Distance
https://www.aclweb.org/anthology/D19-1053
AUTHORS: Wei Zhao, Maxime Peyrard, Fei Liu, Yang Gao, Christian M. Meyer, Steffen Eger
HIGHLIGHT: In this paper we investigate strategies to encode system and reference texts to devise a metric that shows a high correlation with human judgment of text quality.

54, TITLE: Select and Attend: Towards Controllable Content Selection in Text Generation
https://www.aclweb.org/anthology/D19-1054
AUTHORS: Xiaoyu Shen, Jun Suzuki, Kentaro Inui, Hui Su, Dietrich Klakow, Satoshi Sekine
HIGHLIGHT: This paper tackles this problem by decoupling content selection from the decoder.

55, TITLE: Sentence-Level Content Planning and Style Specification for Neural Text Generation
https://www.aclweb.org/anthology/D19-1055
AUTHORS: Xinyu Hua, Lu Wang
HIGHLIGHT: To address these issues, we present an end-to-end trained two-step generation model, where a sentence-level content planner first decides on the keyphrases to cover as well as a desired language style, followed by a surface realization decoder that generates relevant and coherent text.

56, TITLE: Translate and Label! An Encoder-Decoder Approach for Cross-lingual Semantic Role Labeling
https://www.aclweb.org/anthology/D19-1056
AUTHORS: Angel Daza, Anette Frank
HIGHLIGHT: We propose a Cross-lingual Encoder-Decoder model that simultaneously translates and generates sentences with Semantic Role Labeling annotations in a resource-poor target language.

57, TITLE: Syntax-Enhanced Self-Attention-Based Semantic Role Labeling
https://www.aclweb.org/anthology/D19-1057
AUTHORS: Yue Zhang, Rui Wang, Luo Si
HIGHLIGHT: We present different approaches of en- coding the syntactic information derived from dependency trees of different quality and representations; we propose a syntax-enhanced self-attention model and compare it with other two strong baseline methods; and we con- duct experiments with newly published deep contextualized word representations as well.

58, TITLE: VerbAtlas: a Novel Large-Scale Verbal Semantic Resource and Its Application to Semantic Role Labeling
https://www.aclweb.org/anthology/D19-1058
AUTHORS: Andrea Di Fabio, Simone Conia, Roberto Navigli
HIGHLIGHT: We present VerbAtlas, a new, hand-crafted lexical-semantic resource whose goal is to bring together all verbal synsets from WordNet into semantically-coherent frames.

59, TITLE: Parameter-free Sentence Embedding via Orthogonal Basis
https://www.aclweb.org/anthology/D19-1059
AUTHORS: Ziyi Yang, Chenguang Zhu, Weizhu Chen
HIGHLIGHT: We propose a simple and robust non-parameterized approach for building sentence representations.

60, TITLE: Evaluation Benchmarks and Learning Criteria for Discourse-Aware Sentence Representations
https://www.aclweb.org/anthology/D19-1060
AUTHORS: Mingda Chen, Zewei Chu, Kevin Gimpel
HIGHLIGHT: We benchmark sentence encoders pretrained with our proposed training objectives, as well as other popular pretrained sentence encoders on DiscoEval and other sentence evaluation tasks.

61, TITLE: Extracting Possessions from Social Media: Images Complement Language
https://www.aclweb.org/anthology/D19-1061
AUTHORS: Dhivya Chinnappa, Srikala Murugan, Eduardo Blanco
HIGHLIGHT: This paper describes a new dataset and experiments to determine whether authors of tweets possess the objects they tweet about.

62, TITLE: Learning to Speak and Act in a Fantasy Text Adventure Game
https://www.aclweb.org/anthology/D19-1062
AUTHORS: Jack Urbanek, Angela Fan, Siddharth Karamcheti, Saachi Jain, Samuel Humeau, Emily Dinan, Tim Rocktäschel, Douwe Kiela, Arthur Szlam, Jason Weston
HIGHLIGHT: We introduce a large-scale crowdsourced text adventure game as a research platform for studying grounded dialogue.

63, TITLE: Help, Anna! Visual Navigation with Natural Multimodal Assistance via Retrospective Curiosity-Encouraging Imitation Learning
https://www.aclweb.org/anthology/D19-1063
AUTHORS: Khanh Nguyen, Hal Daumé III
HIGHLIGHT: We develop "Help, Anna!" (HANNA), an interactive photo-realistic simulator in which an agent fulfills object-finding tasks by requesting and interpreting natural language-and-vision assistance.

64, TITLE: Incorporating Visual Semantics into Sentence Representations within a Grounded Space
https://www.aclweb.org/anthology/D19-1064
AUTHORS: Patrick Bordes, Eloi Zablocki, Laure Soulier, Benjamin Piwowarski, patrick Gallinari
HIGHLIGHT: To overcome this limitation, we propose to transfer visual information to textual representations by learning an intermediate representation space: the grounded space.

65, TITLE: Neural Naturalist: Generating Fine-Grained Image Comparisons
https://www.aclweb.org/anthology/D19-1065
AUTHORS: Maxwell Forbes, Christine Kaeser-Chen, Piyush Sharma, Serge Belongie
HIGHLIGHT: We introduce the new Birds-to-Words dataset of 41k sentences describing fine-grained differences between photographs of birds. We propose a new model called Neural Naturalist that uses a joint image encoding and comparative module to generate comparative language, and evaluate the results with humans who must use the descriptions to distinguish real images.

66, TITLE: Fine-Grained Evaluation for Entity Linking
https://www.aclweb.org/anthology/D19-1066
AUTHORS: Henry Rosales-Méndez, Aidan Hogan, Barbara Poblete
HIGHLIGHT: We propose a fuzzy recall metric to address the lack of consensus and conclude with fine-grained evaluation results comparing a selection of online EL systems.

67, TITLE: Supervising Unsupervised Open Information Extraction Models
https://www.aclweb.org/anthology/D19-1067
AUTHORS: Arpita Roy, Youngja Park, Taesung Lee, Shimei Pan
HIGHLIGHT: We propose a novel supervised open information extraction (Open IE) framework that leverages an ensemble of unsupervised Open IE systems and a small amount of labeled data to improve system performance.

68, TITLE: Neural Cross-Lingual Event Detection with Minimal Parallel Resources
https://www.aclweb.org/anthology/D19-1068
AUTHORS: Jian Liu, Yubo Chen, Kang Liu, Jun Zhao
HIGHLIGHT: In this paper, we propose a new method for cross-lingual ED, demonstrating a minimal dependency on parallel resources.

69, TITLE: KnowledgeNet: A Benchmark Dataset for Knowledge Base Population
https://www.aclweb.org/anthology/D19-1069
AUTHORS: Filipe Mesquita, Matteo Cannaviccio, Jordan Schmidek, Paramita Mirza, Denilson Barbosa

HIGHLIGHT: KnowledgeNet is a benchmark dataset for the task of automatically populating a knowledge base (Wikidata) with facts expressed in natural language text on the web.

70, TITLE: Effective Use of Transformer Networks for Entity Tracking
https://www.aclweb.org/anthology/D19-1070
AUTHORS: Aditya Gupta, Greg Durrett
HIGHLIGHT: In this paper, we explore the use of pre-trained transformer networks for entity tracking tasks in procedural text.

71, TITLE: Explicit Cross-lingual Pre-training for Unsupervised Machine Translation
https://www.aclweb.org/anthology/D19-1071
AUTHORS: Shuo Ren, Yu Wu, Shujie Liu, Ming Zhou, Shuai Ma
HIGHLIGHT: In this paper, we propose a novel cross-lingual pre-training method for unsupervised machine translation by incorporating explicit cross-lingual training signals.

72, TITLE: Latent Part-of-Speech Sequences for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1072
AUTHORS: Xuewen Yang, Yingru Liu, Dongliang Xie, Xin Wang, Niranjan Balasubramanian
HIGHLIGHT: In this work, we introduce a new latent variable model, LaSyn, that captures the co-dependence between syntax and semantics, while allowing for effective and efficient inference over the latent space.

73, TITLE: Improving Back-Translation with Uncertainty-based Confidence Estimation
https://www.aclweb.org/anthology/D19-1073
AUTHORS: Shuo Wang, Yang Liu, Chao Wang, Huanbo Luan, Maosong Sun
HIGHLIGHT: In this work, we propose to quantify the confidence of NMT model predictions based on model uncertainty.

74, TITLE: Towards Linear Time Neural Machine Translation with Capsule Networks
https://www.aclweb.org/anthology/D19-1074
AUTHORS: Mingxuan Wang
HIGHLIGHT: To the best of our knowledge, this is the first work that capsule networks have been empirically investigated for sequence to sequence problems.

75, TITLE: Modeling Multi-mapping Relations for Precise Cross-lingual Entity Alignment
https://www.aclweb.org/anthology/D19-1075
AUTHORS: Xiaofei Shi, Yanghua Xiao
HIGHLIGHT: To solve this issue, we propose a new embedding-based framework.

76, TITLE: Supervised and Nonlinear Alignment of Two Embedding Spaces for Dictionary Induction in Low Resourced Languages
https://www.aclweb.org/anthology/D19-1076
AUTHORS: Masud Moshtaghi
HIGHLIGHT: In this study, we first describe the general requirements for the success of these techniques and then present a noise tolerant piecewise linear technique to learn a non-linear mapping between two monolingual word embedding vector spaces.

77, TITLE: Beto, Bentz, Becas: The Surprising Cross-Lingual Effectiveness of BERT
https://www.aclweb.org/anthology/D19-1077
AUTHORS: Shijie Wu, Mark Dredze
HIGHLIGHT: This paper explores the broader cross-lingual potential of mBERT (multilingual) as a zero shot language transfer model on 5 NLP tasks covering a total of 39 languages from various language families: NLI, document classification, NER, POS tagging, and dependency parsing.

78, TITLE: Iterative Dual Domain Adaptation for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1078
AUTHORS: Jiali Zeng, Yang Liu, jinsong su, yubing Ge, Yaojie Lu, Yongjing Yin, jiebo luo
HIGHLIGHT: In this paper, we argue that such a strategy fails to fully extract the domain-shared translation knowledge, and repeatedly utilizing corpora of different domains can lead to better distillation of domain-shared translation knowledge.

79, TITLE: Multi-agent Learning for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1079
AUTHORS: tianchi bi, hao xiong, Zhongjun He, Hua Wu, Haifeng Wang

HIGHLIGHT: In this paper, we extend the training framework to the multi-agent sce- nario by introducing diverse agents in an in- teractive updating process.

80, TITLE: Pivot-based Transfer Learning for Neural Machine Translation between Non-English Languages
https://www.aclweb.org/anthology/D19-1080
AUTHORS: Yunsu Kim, Petre Petrov, Pavel Petrushkov, Shahram Khadivi, Hermann Ney
HIGHLIGHT: We propose three methods to increase the relation among source, pivot, and target languages in the pre-training: 1) step-wise training of a single model for different language pairs, 2) additional adapter component to smoothly connect pre-trained encoder and decoder, and 3) cross-lingual encoder training via autoencoding of the pivot language.

81, TITLE: Context-Aware Monolingual Repair for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1081
AUTHORS: Elena Voita, Rico Sennrich, Ivan Titov
HIGHLIGHT: We propose a monolingual DocRepair model to correct inconsistencies between sentence-level translations.

82, TITLE: Multi-Granularity Self-Attention for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1082
AUTHORS: Jie Hao, Xing Wang, Shuming Shi, Jinfeng Zhang, Zhaopeng Tu
HIGHLIGHT: In this work, we present {{\textbackslash}em multi-granularity self-attention} (Mg-Sa): a neural network that combines multi-head self-attention and phrase modeling.

83, TITLE: Improving Deep Transformer with Depth-Scaled Initialization and Merged Attention
https://www.aclweb.org/anthology/D19-1083
AUTHORS: Biao Zhang, Ivan Titov, Rico Sennrich
HIGHLIGHT: We propose depth-scaled initialization (DS-Init), which decreases parameter variance at the initialization stage, and reduces output variance of residual connections so as to ease gradient back-propagation through normalization layers.

84, TITLE: A Discriminative Neural Model for Cross-Lingual Word Alignment
https://www.aclweb.org/anthology/D19-1084
AUTHORS: Elias Stengel-Eskin, Tzu-ray Su, Matt Post, Benjamin Van Durme
HIGHLIGHT: We introduce a novel discriminative word alignment model, which we integrate into a Transformer-based machine translation model.

85, TITLE: One Model to Learn Both: Zero Pronoun Prediction and Translation
https://www.aclweb.org/anthology/D19-1085
AUTHORS: Longyue Wang, Zhaopeng Tu, Xing Wang, Shuming Shi
HIGHLIGHT: In this paper, we propose a unified and discourse-aware ZP translation approach for neural MT models.

86, TITLE: Dynamic Past and Future for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1086
AUTHORS: Zaixiang Zheng, Shujian Huang, Zhaopeng Tu, XIN-YU DAI, Jiajun CHEN
HIGHLIGHT: In this paper, we propose to model the {\textbackslash}textit{dynamic principles} by explicitly separating source words into groups of translated and untranslated contents through parts-to-wholes assignment.

87, TITLE: Revisit Automatic Error Detection for Wrong and Missing Translation -- A Supervised Approach
https://www.aclweb.org/anthology/D19-1087
AUTHORS: Wenqiang Lei, Weiwen Xu, Ai Ti Aw, Yuanxin Xiang, Tat Seng Chua
HIGHLIGHT: To have a closer study of these issues and accelerate model development, we propose automatic detecting adequacy errors in MT hypothesis for MT model evaluation.

88, TITLE: Towards Understanding Neural Machine Translation with Word Importance
https://www.aclweb.org/anthology/D19-1088
AUTHORS: Shilin He, Zhaopeng Tu, Xing Wang, Longyue Wang, Michael Lyu, Shuming Shi
HIGHLIGHT: In this work, we propose to address this gap by focusing on understanding the input-output behavior of NMT models.

89, TITLE: Multilingual Neural Machine Translation with Language Clustering
https://www.aclweb.org/anthology/D19-1089
AUTHORS: Xu Tan, Jiale Chen, Di He, Yingce Xia, Tao QIN, Tie-Yan Liu

HIGHLIGHT: In this work, we develop a framework that clusters languages into different groups and trains one multilingual model for each cluster.

90, TITLE: Don't Forget the Long Tail! A Comprehensive Analysis of Morphological Generalization in Bilingual Lexicon Induction
https://www.aclweb.org/anthology/D19-1090
AUTHORS: Paula Czarnowska, Sebastian Ruder, Edouard Grave, Ryan Cotterell, Ann Copestake
HIGHLIGHT: In this work, we investigate whether state-of-the-art bilingual lexicon inducers are capable of learning this kind of generalization.

91, TITLE: Pushing the Limits of Low-Resource Morphological Inflection
https://www.aclweb.org/anthology/D19-1091
AUTHORS: Antonios Anastasopoulos, Graham Neubig
HIGHLIGHT: In response, we propose a battery of improvements that greatly improve performance under such low-resource conditions.

92, TITLE: Cross-Lingual Dependency Parsing Using Code-Mixed TreeBank
https://www.aclweb.org/anthology/D19-1092
AUTHORS: Meishan Zhang, Yue Zhang, Guohong Fu
HIGHLIGHT: To address this problem, we investigate syntactic transfer by code mixing, translating only confident words in a source treebank.

93, TITLE: Hierarchical Pointer Net Parsing
https://www.aclweb.org/anthology/D19-1093
AUTHORS: Linlin Liu, Xiang Lin, Shafiq Joty, Simeng Han, Lidong Bing
HIGHLIGHT: In this paper, we propose hierarchical pointer network parsers, and apply them to dependency and sentence-level discourse parsing tasks.

94, TITLE: Semi-Supervised Semantic Role Labeling with Cross-View Training
https://www.aclweb.org/anthology/D19-1094
AUTHORS: Rui Cai, Mirella Lapata
HIGHLIGHT: We propose an end-to-end SRL model and demonstrate it can effectively leverage unlabeled data under the cross-view training modeling paradigm.

95, TITLE: Low-Resource Sequence Labeling via Unsupervised Multilingual Contextualized Representations
https://www.aclweb.org/anthology/D19-1095
AUTHORS: Zuyi Bao, Rui Huang, Chen Li, Kenny Zhu
HIGHLIGHT: In this work, we propose a Multilingual Language Model with deep semantic Alignment (MLMA) to generate language-independent representations for cross-lingual sequence labeling.

96, TITLE: A Lexicon-Based Graph Neural Network for Chinese NER
https://www.aclweb.org/anthology/D19-1096
AUTHORS: Tao Gui, Yicheng Zou, Qi Zhang, Minlong Peng, Jinlan Fu, Zhongyu Wei, Xuanjing Huang
HIGHLIGHT: In this work, we try to alleviate this problem by introducing a lexicon-based graph neural network with global semantics, in which lexicon knowledge is used to connect characters to capture the local composition, while a global relay node can capture global sentence semantics and long-range dependency.

97, TITLE: CM-Net: A Novel Collaborative Memory Network for Spoken Language Understanding
https://www.aclweb.org/anthology/D19-1097
AUTHORS: Yijin Liu, Fandong Meng, Jinchao Zhang, Jie Zhou, Yufeng Chen, Jinan Xu
HIGHLIGHT: To address this issue, in this paper we propose a novel Collaborative Memory Network (CM-Net) based on the well-designed block, named CM-block.

98, TITLE: Tree Transformer: Integrating Tree Structures into Self-Attention
https://www.aclweb.org/anthology/D19-1098
AUTHORS: Yaushian Wang, Hung-Yi Lee, Yun-Nung Chen
HIGHLIGHT: This paper proposes Tree Transformer, which adds an extra constraint to attention heads of the bidirectional Transformer encoder in order to encourage the attention heads to follow tree structures.

99, TITLE: Semantic Role Labeling with Iterative Structure Refinement

https://www.aclweb.org/anthology/D19-1099
AUTHORS: Chunchuan Lyu, Shay B. Cohen, Ivan Titov
HIGHLIGHT: We model interactions between argument labeling decisions through iterative refinement.

100, TITLE: Entity Projection via Machine Translation for Cross-Lingual NER
https://www.aclweb.org/anthology/D19-1100
AUTHORS: Alankar Jain, Bhargavi Paranjape, Zachary C. Lipton
HIGHLIGHT: We propose a system that improves over prior entity-projection methods by: (a) leveraging machine translation systems twice: first for translating sentences and subsequently for translating entities; (b) matching entities based on orthographic and phonetic similarity; and (c) identifying matches based on distributional statistics derived from the dataset.

101, TITLE: A Bayesian Approach for Sequence Tagging with Crowds
https://www.aclweb.org/anthology/D19-1101
AUTHORS: Edwin D. Simpson, Iryna Gurevych
HIGHLIGHT: To address this, we propose a Bayesian method for aggregating sequence tags that reduces errors by modelling sequential dependencies between the annotations as well as the ground-truth labels.

102, TITLE: A systematic comparison of methods for low-resource dependency parsing on genuinely low-resource languages
https://www.aclweb.org/anthology/D19-1102
AUTHORS: Clara Vania, Yova Kementchedjhieva, Anders Søgaard, Adam Lopez
HIGHLIGHT: We systematically compare a set of simple strategies for improving low-resource parsers: data augmentation, which has not been tested before; cross-lingual training; and transliteration.

103, TITLE: Target Language-Aware Constrained Inference for Cross-lingual Dependency Parsing
https://www.aclweb.org/anthology/D19-1103
AUTHORS: Tao Meng, Nanyun Peng, Kai-Wei Chang
HIGHLIGHT: In this paper, we show that weak supervisions of linguistic knowledge for the target languages can improve a cross-lingual graph-based dependency parser substantially.

104, TITLE: Look-up and Adapt: A One-shot Semantic Parser
https://www.aclweb.org/anthology/D19-1104
AUTHORS: Zhichu Lu, Forough Arabshahi, Igor Labutov, Tom Mitchell
HIGHLIGHT: In this paper, we propose a semantic parser that generalizes to out-of-domain examples by learning a general strategy for parsing an unseen utterance through adapting the logical forms of seen utterances, instead of learning to generate a logical form from scratch.

105, TITLE: Similarity Based Auxiliary Classifier for Named Entity Recognition
https://www.aclweb.org/anthology/D19-1105
AUTHORS: Shiyuan Xiao, Yuanxin Ouyang, Wenge Rong, Jianxin Yang, Zhang Xiong
HIGHLIGHT: Inspired by previous work in which a multi-task strategy is used to solve segmentation problems, we design a similarity based auxiliary classifier (SAC), which can distinguish entity words from non-entity words.

106, TITLE: Variable beam search for generative neural parsing and its relevance for the analysis of neuro-imaging signal
https://www.aclweb.org/anthology/D19-1106
AUTHORS: Benoit Crabbé, Murielle Fabre, Christophe Pallier
HIGHLIGHT: This paper describes a method of variable beam size inference for Recurrent Neural Network Grammar (rnng) by drawing inspiration from sequential Monte-Carlo methods such as particle filtering.

107, TITLE: Are We Modeling the Task or the Annotator? An Investigation of Annotator Bias in Natural Language Understanding Datasets
https://www.aclweb.org/anthology/D19-1107
AUTHORS: Mor Geva, Yoav Goldberg, Jonathan Berant
HIGHLIGHT: In this paper, we perform a series of experiments showing these concerns are evident in three recent NLP datasets.

108, TITLE: Robust Text Classifier on Test-Time Budgets
https://www.aclweb.org/anthology/D19-1108
AUTHORS: Md Rizwan Parvez, Tolga Bolukbasi, Kai-Wei Chang, Venkatesh Saligrama
HIGHLIGHT: To this end, we propose a data aggregation method to train the classifier, allowing it to achieve competitive performance on fractured sentences.

109, TITLE: Commonsense Knowledge Mining from Pretrained Models
https://www.aclweb.org/anthology/D19-1109
AUTHORS: Joe Davison, Joshua Feldman, Alexander Rush
HIGHLIGHT: In this work, we develop a method for generating commonsense knowledge using a large, pre-trained bidirectional language model.

110, TITLE: RNN Architecture Learning with Sparse Regularization
https://www.aclweb.org/anthology/D19-1110
AUTHORS: Jesse Dodge, Roy Schwartz, Hao Peng, Noah A. Smith
HIGHLIGHT: We present a structure learning method for learning sparse, parameter-efficient NLP models.

111, TITLE: Analytical Methods for Interpretable Ultradense Word Embeddings
https://www.aclweb.org/anthology/D19-1111
AUTHORS: Philipp Dufter, Hinrich Schütze
HIGHLIGHT: In this work, we investigate three methods for making word spaces interpretable by rotation: Densifier (Rothe et al., 2016), linear SVMs and DensRay, a new method we propose.

112, TITLE: Investigating Meta-Learning Algorithms for Low-Resource Natural Language Understanding Tasks
https://www.aclweb.org/anthology/D19-1112
AUTHORS: Zi-Yi Dou, Keyi Yu, Antonios Anastasopoulos
HIGHLIGHT: Inspired by the recent success of optimization-based meta-learning algorithms, in this paper, we explore the model-agnostic meta-learning algorithm (MAML) and its variants for low-resource NLU tasks.

113, TITLE: Retrofitting Contextualized Word Embeddings with Paraphrases
https://www.aclweb.org/anthology/D19-1113
AUTHORS: Weijia Shi, Muhao Chen, Pei Zhou, Kai-Wei Chang
HIGHLIGHT: To address this issue, we propose a post-processing approach to retrofit the embedding with paraphrases.

114, TITLE: Incorporating Contextual and Syntactic Structures Improves Semantic Similarity Modeling
https://www.aclweb.org/anthology/D19-1114
AUTHORS: Linqing Liu, Wei Yang, Jinfeng Rao, Raphael Tang, Jimmy Lin
HIGHLIGHT: However, such structure priors have not been well exploited in previous work for semantic modeling. To examine their effectiveness, we start with the Pairwise Word Interaction Model, one of the best models according to a recent reproducibility study, then introduce components for modeling context and structure using multi-layer BiLSTMs and TreeLSTMs.

115, TITLE: Neural Linguistic Steganography
https://www.aclweb.org/anthology/D19-1115
AUTHORS: Zachary Ziegler, Yuntian Deng, Alexander Rush
HIGHLIGHT: We propose a steganography technique based on arithmetic coding with large-scale neural language models.

116, TITLE: The Feasibility of Embedding Based Automatic Evaluation for Single Document Summarization
https://www.aclweb.org/anthology/D19-1116
AUTHORS: Simeng Sun, Ani Nenkova
HIGHLIGHT: Here we present a suite of experiments on using distributed representations for evaluating summarizers, both in reference-based and in reference-free setting.

117, TITLE: Attention Optimization for Abstractive Document Summarization
https://www.aclweb.org/anthology/D19-1117
AUTHORS: Min Gui, Junfeng Tian, Rui Wang, Zhenglu Yang
HIGHLIGHT: We propose attention refinement unit paired with local variance loss to impose supervision on the attention model at each decoding step, and we also propose a global variance loss to optimize the attention distributions of all decoding steps from the global perspective.

118, TITLE: Rewarding Coreference Resolvers for Being Consistent with World Knowledge
https://www.aclweb.org/anthology/D19-1118
AUTHORS: Rahul Aralikatte, Heather Lent, Ana Valeria Gonzalez, Daniel Herschcovich, Chen Qiu, Anders Sandholm, Michael Ringaard, Anders Søgaard
HIGHLIGHT: We show how to improve coreference resolvers by forwarding their input to a relation extraction system and reward the resolvers for producing triples that are found in knowledge bases.

119, TITLE: An Empirical Study of Incorporating Pseudo Data into Grammatical Error Correction
https://www.aclweb.org/anthology/D19-1119
AUTHORS: Shun Kiyono, Jun Suzuki, Masato Mita, Tomoya Mizumoto, Kentaro Inui
HIGHLIGHT: In this study, these choices are investigated through extensive experiments, and state-of-the-art performance is achieved on the CoNLL-2014 test set (F0.5=65.0) and the official test set of the BEA-2019 shared task (F0.5=70.2) without making any modifications to the model architecture.

120, TITLE: A Multilingual Topic Model for Learning Weighted Topic Links Across Corpora with Low Comparability
https://www.aclweb.org/anthology/D19-1120
AUTHORS: Weiwei Yang, Jordan Boyd-Graber, Philip Resnik
HIGHLIGHT: We introduce a new model that does not rely on this assumption, particularly useful in important low-resource language scenarios.

121, TITLE: Measure Country-Level Socio-Economic Indicators with Streaming News: An Empirical Study
https://www.aclweb.org/anthology/D19-1121
AUTHORS: Bonan Min, Xiaoxi Zhao
HIGHLIGHT: In this paper, we propose Event-Centric Indicator Measure (ECIM), a novel approach to measure socio-economic indicators with events.

122, TITLE: Towards Extracting Medical Family History from Natural Language Interactions: A New Dataset and Baselines
https://www.aclweb.org/anthology/D19-1122
AUTHORS: Mahmoud Azab, Stephane Dadian, Vivi Nastase, Larry An, Rada Mihalcea
HIGHLIGHT: We introduce a new dataset consisting of natural language interactions annotated with medical family histories, obtained during interactions with a genetic counselor and through crowdsourcing, following a questionnaire created by experts in the domain.

123, TITLE: Multi-task Learning for Natural Language Generation in Task-Oriented Dialogue
https://www.aclweb.org/anthology/D19-1123
AUTHORS: Chenguang Zhu, Michael Zeng, Xuedong Huang
HIGHLIGHT: In this paper, we propose a novel multi-task learning framework, NLG-LM, for natural language generation.

124, TITLE: Dirichlet Latent Variable Hierarchical Recurrent Encoder-Decoder in Dialogue Generation
https://www.aclweb.org/anthology/D19-1124
AUTHORS: Min Zeng, Yisen Wang, Yuan Luo
HIGHLIGHT: To address the issues, we propose to use the Dirichlet distribution with flexible structures to characterize the latent variables in place of the traditional Gaussian distribution, called Dirichlet Latent Variable Hierarchical Recurrent Encoder-Decoder model (Dir-VHRED).

125, TITLE: Semi-Supervised Bootstrapping of Dialogue State Trackers for Task-Oriented Modelling
https://www.aclweb.org/anthology/D19-1125
AUTHORS: Bo-Hsiang Tseng, Marek Rei, Pawe? Budzianowski, Richard Turner, Bill Byrne, Anna Korhonen
HIGHLIGHT: In this paper, we investigate semi-supervised learning methods that are able to reduce the amount of required intermediate labelling.

126, TITLE: A Progressive Model to Enable Continual Learning for Semantic Slot Filling
https://www.aclweb.org/anthology/D19-1126
AUTHORS: Yilin Shen, Xiangyu Zeng, Hongxia Jin
HIGHLIGHT: In this paper, we introduce a novel progressive slot filling model, ProgModel.

127, TITLE: CASA-NLU: Context-Aware Self-Attentive Natural Language Understanding for Task-Oriented Chatbots
https://www.aclweb.org/anthology/D19-1127
AUTHORS: Arshit Gupta, Peng Zhang, Garima Lalwani, Mona Diab
HIGHLIGHT: In this work, we propose a context-aware self-attentive NLU (CASA-NLU) model that uses multiple signals over a variable context window, such as previous intents, slots, dialog acts and utterances, in addition to the current user utterance.

128, TITLE: Sampling Matters! An Empirical Study of Negative Sampling Strategies for Learning of Matching Models in Retrieval-based Dialogue Systems
https://www.aclweb.org/anthology/D19-1128
AUTHORS: Jia Li, Chongyang Tao, wei wu, Yansong Feng, Dongyan Zhao, Rui Yan

HIGHLIGHT: We study how to sample negative examples to automatically construct a training set for effective model learning in retrieval-based dialogue systems.

129, TITLE: Zero-shot Cross-lingual Dialogue Systems with Transferable Latent Variables
https://www.aclweb.org/anthology/D19-1129
AUTHORS: Zihan Liu, Jamin Shin, Yan Xu, Genta Indra Winata, Peng Xu, Andrea Madotto, Pascale Fung
HIGHLIGHT: Hence, we propose a zero-shot adaptation of task-oriented dialogue system to low-resource languages.

130, TITLE: Modeling Multi-Action Policy for Task-Oriented Dialogues
https://www.aclweb.org/anthology/D19-1130
AUTHORS: Lei Shu, Hu Xu, Bing Liu, Piero Molino
HIGHLIGHT: In this paper, we compare the performance of several models on the task of predicting multiple acts for each turn.

131, TITLE: An Evaluation Dataset for Intent Classification and Out-of-Scope Prediction
https://www.aclweb.org/anthology/D19-1131
AUTHORS: Stefan Larson, Anish Mahendran, Joseph J. Peper, Christopher Clarke, Andrew Lee, Parker Hill, Jonathan K. Kummerfeld, Kevin Leach, Michael A. Laurenzano, Lingjia Tang, Jason mars
HIGHLIGHT: We introduce a new dataset that includes queries that are out-of-scope---i.e., queries that do not fall into any of the system's supported intents.

132, TITLE: Automatically Learning Data Augmentation Policies for Dialogue Tasks
https://www.aclweb.org/anthology/D19-1132
AUTHORS: Tong Niu, Mohit Bansal
HIGHLIGHT: In our work, we adapt AutoAugment to automatically discover effective perturbation policies for natural language processing (NLP) tasks such as dialogue generation.

133, TITLE: uniblock: Scoring and Filtering Corpus with Unicode Block Information
https://www.aclweb.org/anthology/D19-1133
AUTHORS: Yingbo Gao, Weiyue Wang, Hermann Ney
HIGHLIGHT: In this paper, we introduce a simple statistical method, uniblock, to overcome this problem.

134, TITLE: Multilingual word translation using auxiliary languages
https://www.aclweb.org/anthology/D19-1134
AUTHORS: Hagai Taitelbaum, Gal Chechik, Jacob Goldberger
HIGHLIGHT: In this study we propose a multilingual translation procedure that uses all the learned mappings to translate a word from one language to another.

135, TITLE: Towards Better Modeling Hierarchical Structure for Self-Attention with Ordered Neurons
https://www.aclweb.org/anthology/D19-1135
AUTHORS: Jie Hao, Xing Wang, Shuming Shi, Jinfeng Zhang, Zhaopeng Tu
HIGHLIGHT: With the belief that modeling hierarchical structure is an essential complementary between SANs and RNNs, we propose to further enhance the strength of hybrid models with an advanced variant of RNNs -- Ordered Neurons LSTM (ON-LSTM), which introduces a syntax-oriented inductive bias to perform tree-like composition.

136, TITLE: Vecalign: Improved Sentence Alignment in Linear Time and Space
https://www.aclweb.org/anthology/D19-1136
AUTHORS: Brian Thompson, Philipp Koehn
HIGHLIGHT: We introduce Vecalign, a novel bilingual sentence alignment method which is linear in time and space with respect to the number of sentences being aligned and which requires only bilingual sentence embeddings.

137, TITLE: Simpler and Faster Learning of Adaptive Policies for Simultaneous Translation
https://www.aclweb.org/anthology/D19-1137
AUTHORS: Baigong Zheng, Renjie Zheng, Mingbo Ma, Liang Huang
HIGHLIGHT: To combine the merits of both approaches, we propose a simple supervised-learning framework to learn an adaptive policy from oracle READ/WRITE sequences generated from parallel text.

138, TITLE: Adversarial Learning with Contextual Embeddings for Zero-resource Cross-lingual Classification and NER
https://www.aclweb.org/anthology/D19-1138
AUTHORS: Phillip Keung, yichao lu, Vikas Bhardwaj

HIGHLIGHT: We improve upon multilingual BERT's zero-resource cross-lingual performance via adversarial learning.

139, TITLE: Recurrent Positional Embedding for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1139
AUTHORS: Kehai Chen, Rui Wang, Masao Utiyama, Eiichiro Sumita
HIGHLIGHT: To address this issue, this work proposes a recurrent positional embedding approach based on word vector.

140, TITLE: Machine Translation for Machines: the Sentiment Classification Use Case
https://www.aclweb.org/anthology/D19-1140
AUTHORS: amirhossein tebbifakhr, Luisa Bentivogli, Matteo Negri, Marco Turchi
HIGHLIGHT: We propose a neural machine translation (NMT) approach that, instead of pursuing adequacy and fluency ("human-oriented" quality criteria), aims to generate translations that are best suited as input to a natural language processing component designed for a specific downstream task (a "machine-oriented" criterion).

141, TITLE: Investigating the Effectiveness of BPE: The Power of Shorter Sequences
https://www.aclweb.org/anthology/D19-1141
AUTHORS: Matthias Gallé
HIGHLIGHT: We link BPE to the broader family of dictionary-based compression algorithms and compare it with other members of this family.

142, TITLE: HABLex: Human Annotated Bilingual Lexicons for Experiments in Machine Translation
https://www.aclweb.org/anthology/D19-1142
AUTHORS: Brian Thompson, Rebecca Knowles, Xuan Zhang, Huda Khayrallah, Kevin Duh, Philipp Koehn
HIGHLIGHT: In this work, we present the HABLex dataset, designed to test methods for bilingual lexicon integration into neural machine translation.

143, TITLE: Handling Syntactic Divergence in Low-resource Machine Translation
https://www.aclweb.org/anthology/D19-1143
AUTHORS: Chunting Zhou, Xuezhe Ma, Junjie Hu, Graham Neubig
HIGHLIGHT: In this paper, we propose a simple yet effective solution, whereby target-language sentences are re-ordered to match the order of the source and used as an additional source of training-time supervision.

144, TITLE: Speculative Beam Search for Simultaneous Translation
https://www.aclweb.org/anthology/D19-1144
AUTHORS: Renjie Zheng, Mingbo Ma, Baigong Zheng, Liang Huang
HIGHLIGHT: To address this challenge, we propose a new speculative beam search algorithm that hallucinates several steps into the future in order to reach a more accurate decision by implicitly benefiting from a target language model.

145, TITLE: Self-Attention with Structural Position Representations
https://www.aclweb.org/anthology/D19-1145
AUTHORS: Xing Wang, Zhaopeng Tu, Longyue Wang, Shuming Shi
HIGHLIGHT: In this work, we propose to augment SANs with structural position representations to model the latent structure of the input sentence, which is complementary to the standard sequential positional representations.

146, TITLE: Exploiting Multilingualism through Multistage Fine-Tuning for Low-Resource Neural Machine Translation
https://www.aclweb.org/anthology/D19-1146
AUTHORS: Raj Dabre, Atsushi Fujita, Chenhui Chu
HIGHLIGHT: This paper highlights the impressive utility of multi-parallel corpora for transfer learning in a one-to-many low-resource neural machine translation (NMT) setting.

147, TITLE: Unsupervised Domain Adaptation for Neural Machine Translation with Domain-Aware Feature Embeddings
https://www.aclweb.org/anthology/D19-1147
AUTHORS: Zi-Yi Dou, Junjie Hu, Antonios Anastasopoulos, Graham Neubig
HIGHLIGHT: In this work, we propose an approach that adapts models with domain-aware feature embeddings, which are learned via an auxiliary language modeling task.

148, TITLE: A Regularization-based Framework for Bilingual Grammar Induction
https://www.aclweb.org/anthology/D19-1148
AUTHORS: Yong Jiang, Wenjuan Han, Kewei Tu

HIGHLIGHT: We propose three regularization methods that encourage similarity between model parameters, dependency edge scores, and parse trees respectively.

149, TITLE: Encoders Help You Disambiguate Word Senses in Neural Machine Translation
https://www.aclweb.org/anthology/D19-1149
AUTHORS: Gongbo Tang, Rico Sennrich, Joakim Nivre
HIGHLIGHT: In this paper, we explore the ability of NMT encoders and decoders to disambiguate word senses by evaluating hidden states and investigating the distributions of self-attention.

150, TITLE: Korean Morphological Analysis with Tied Sequence-to-Sequence Multi-Task Model
https://www.aclweb.org/anthology/D19-1150
AUTHORS: Hyun-Je Song, Seong-Bae Park
HIGHLIGHT: This paper formulates Korean morphological analysis as a combination of the tasks and presents a tied sequence-to-sequence multi-task model for training the two tasks simultaneously without any explicit regularization.

151, TITLE: Efficient Convolutional Neural Networks for Diacritic Restoration
https://www.aclweb.org/anthology/D19-1151
AUTHORS: Sawsan Alqahtani, Ajay Mishra, Mona Diab
HIGHLIGHT: As diacritic restoration benefits from both previous as well as subsequent timesteps, we further apply and evaluate a variant of TCN, Acausal TCN (A-TCN), which incorporates context from both directions (previous and future) rather than strictly incorporating previous context as in the case of TCN.

152, TITLE: Improving Generative Visual Dialog by Answering Diverse Questions
https://www.aclweb.org/anthology/D19-1152
AUTHORS: Vishvak Murahari, Prithvijit Chattopadhyay, Dhruv Batra, Devi Parikh, Abhishek Das
HIGHLIGHT: To improve this, we devise a simple auxiliary objective that incentivizes Q-Bot to ask diverse questions, thus reducing repetitions and in turn enabling A-Bot to explore a larger state space during RL i.e. be exposed to more visual concepts to talk about, and varied questions to answer.

153, TITLE: Cross-lingual Transfer Learning with Data Selection for Large-Scale Spoken Language Understanding
https://www.aclweb.org/anthology/D19-1153
AUTHORS: Quynh Do, Judith Gaspers
HIGHLIGHT: In this paper, we address this question and propose a simple but effective language model based source-language data selection method for cross-lingual transfer learning in large-scale spoken language understanding.

154, TITLE: Multi-Head Attention with Diversity for Learning Grounded Multilingual Multimodal Representations
https://www.aclweb.org/anthology/D19-1154
AUTHORS: Po-Yao Huang, Xiaojun Chang, Alexander Hauptmann
HIGHLIGHT: With the aim of promoting and understanding the multilingual version of image search, we leverage visual object detection and propose a model with diverse multi-head attention to learn grounded multilingual multimodal representations.

155, TITLE: Decoupled Box Proposal and Featurization with Ultrafine-Grained Semantic Labels Improve Image Captioning and Visual Question Answering
https://www.aclweb.org/anthology/D19-1155
AUTHORS: Soravit Changpinyo, Bo Pang, Piyush Sharma, Radu Soricut
HIGHLIGHT: In this paper, we examine the effect of decoupling box proposal and featurization for down-stream tasks.

156, TITLE: REO-Relevance, Extraness, Omission: A Fine-grained Evaluation for Image Captioning
https://www.aclweb.org/anthology/D19-1156
AUTHORS: Ming Jiang, Junjie Hu, Qiuyuan Huang, Lei Zhang, Jana Diesner, Jianfeng Gao
HIGHLIGHT: In this study, we present a fine-grained evaluation method REO for automatically measuring the performance of image captioning systems.

157, TITLE: WSLLN:Weakly Supervised Natural Language Localization Networks
https://www.aclweb.org/anthology/D19-1157
AUTHORS: Mingfei Gao, Larry Davis, Richard Socher, Caiming Xiong
HIGHLIGHT: We propose weakly supervised language localization networks (WSLLN) to detect events in long, untrimmed videos given language queries.

158, TITLE: Grounding learning of modifier dynamics: An application to color naming

https://www.aclweb.org/anthology/D19-1158
AUTHORS: Xudong Han, Philip Schulz, Trevor Cohn
HIGHLIGHT: We present a model of color modifiers that, compared with previous additive models in RGB space, learns more complex transformations.

159, TITLE: Robust Navigation with Language Pretraining and Stochastic Sampling
https://www.aclweb.org/anthology/D19-1159
AUTHORS: Xiujun Li, Chunyuan Li, Qiaolin Xia, Yonatan Bisk, Asli Celikyilmaz, Jianfeng Gao, Noah A. Smith, Yejin Choi
HIGHLIGHT: In this paper, we report two simple but highly effective methods to address these challenges and lead to a new state-of-the-art performance.

160, TITLE: Towards Making a Dependency Parser See
https://www.aclweb.org/anthology/D19-1160
AUTHORS: Michalina Strzyz, David Vilares, Carlos Gómez-Rodríguez
HIGHLIGHT: We explore whether it is possible to leverage eye-tracking data in an RNN dependency parser (for English) when such information is only available during training - i.e. no aggregated or token-level gaze features are used at inference time.

161, TITLE: Unsupervised Labeled Parsing with Deep Inside-Outside Recursive Autoencoders
https://www.aclweb.org/anthology/D19-1161
AUTHORS: Andrew Drozdov, Patrick Verga, Yi-Pei Chen, Mohit Iyyer, Andrew McCallum
HIGHLIGHT: In this work, we show that we can effectively recover these types of labels using the learned phrase vectors from deep inside-outside recursive autoencoders (DIORA).

162, TITLE: Dependency Parsing for Spoken Dialog Systems
https://www.aclweb.org/anthology/D19-1162
AUTHORS: Sam Davidson, Dian Yu, Zhou Yu
HIGHLIGHT: Therefore, we propose the Spoken Conversation Universal Dependencies (SCUD) annotation scheme that extends the Universal Dependencies (UD) (Nivre et al., 2016) guidelines to spoken human-machine dialogs.

163, TITLE: Span-based Hierarchical Semantic Parsing for Task-Oriented Dialog
https://www.aclweb.org/anthology/D19-1163
AUTHORS: Panupong Pasupat, Sonal Gupta, Karishma Mandyam, Rushin Shah, Mike Lewis, Luke Zettlemoyer
HIGHLIGHT: We propose a semantic parser for parsing compositional utterances into Task Oriented Parse (TOP), a tree representation that has intents and slots as labels of nesting tree nodes.

164, TITLE: Enhancing Context Modeling with a Query-Guided Capsule Network for Document-level Translation
https://www.aclweb.org/anthology/D19-1164
AUTHORS: Zhengxin Yang, Jinchao Zhang, Fandong Meng, Shuhao Gu, Yang Feng, Jie Zhou
HIGHLIGHT: To address this problem, we propose a query-guided capsule networks to cluster context information into different perspectives from which the target translation may concern.

165, TITLE: Simple, Scalable Adaptation for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1165
AUTHORS: Ankur Bapna, Orhan Firat
HIGHLIGHT: We propose a simple yet efficient approach for adaptation in NMT.

166, TITLE: Controlling Text Complexity in Neural Machine Translation
https://www.aclweb.org/anthology/D19-1166
AUTHORS: Sweta Agrawal, Marine Carpuat
HIGHLIGHT: This work introduces a machine translation task where the output is aimed at audiences of different levels of target language proficiency.

167, TITLE: Investigating Multilingual NMT Representations at Scale
https://www.aclweb.org/anthology/D19-1167
AUTHORS: Sneha Kudugunta, Ankur Bapna, Isaac Caswell, Orhan Firat
HIGHLIGHT: In this work, we attempt to understand massively multilingual NMT representations (with 103 languages) using Singular Value Canonical Correlation Analysis (SVCCA), a representation similarity framework that allows us to compare representations across different languages, layers and models.

168, TITLE: Hierarchical Modeling of Global Context for Document-Level Neural Machine Translation
https://www.aclweb.org/anthology/D19-1168
AUTHORS: Xin Tan, Longyin Zhang, Deyi Xiong, Guodong Zhou
HIGHLIGHT: In this paper, we propose a hierarchical model to learn the global context for document-level neural machine translation (NMT).

169, TITLE: Cross-Lingual Machine Reading Comprehension
https://www.aclweb.org/anthology/D19-1169
AUTHORS: Yiming Cui, Wanxiang Che, Ting Liu, Bing Qin, Shijin Wang, Guoping Hu
HIGHLIGHT: In this paper, we propose Cross-Lingual Machine Reading Comprehension (CLMRC) task for the languages other than English.

170, TITLE: A Multi-Type Multi-Span Network for Reading Comprehension that Requires Discrete Reasoning
https://www.aclweb.org/anthology/D19-1170
AUTHORS: Minghao Hu, Yuxing Peng, Zhen Huang, Dongsheng Li
HIGHLIGHT: In this paper, we introduce the Multi-Type Multi-Span Network (MTMSN), a neural reading comprehension model that combines a multi-type answer predictor designed to support various answer types (e.g., span, count, negation, and arithmetic expression) with a multi-span extraction method for dynamically producing one or multiple text spans.

171, TITLE: Neural Duplicate Question Detection without Labeled Training Data
https://www.aclweb.org/anthology/D19-1171
AUTHORS: Andreas Rücklé, Nafise Sadat Moosavi, Iryna Gurevych
HIGHLIGHT: In this work, we propose two novel methods---weak supervision using the title and body of a question, and the automatic generation of duplicate questions---and show that both can achieve improved performances even though they do not require any labeled data.

172, TITLE: Asking Clarification Questions in Knowledge-Based Question Answering
https://www.aclweb.org/anthology/D19-1172
AUTHORS: Jingjing Xu, Yuechen Wang, Duyu Tang, Nan Duan, Pengcheng Yang, Qi Zeng, Ming Zhou, Xu SUN
HIGHLIGHT: In this paper, we construct a new clarification dataset, CLAQUA, with nearly 40K open-domain examples.

173, TITLE: Multi-View Domain Adapted Sentence Embeddings for Low-Resource Unsupervised Duplicate Question Detection
https://www.aclweb.org/anthology/D19-1173
AUTHORS: Nina Poerner, Hinrich Schütze
HIGHLIGHT: We address the problem of Duplicate Question Detection (DQD) in low-resource domain-specific Community Question Answering forums.

174, TITLE: Multi-label Categorization of Accounts of Sexism using a Neural Framework
https://www.aclweb.org/anthology/D19-1174
AUTHORS: Pulkit Parikh, Harika Abburi, Pinkesh Badjatiya, Radhika Krishnan, Niyati Chhaya, Manish Gupta, Vasudeva Varma
HIGHLIGHT: We develop a neural solution for this multi-label classification that can combine sentence representations obtained using models such as BERT with distributional and linguistic word embeddings using a flexible, hierarchical architecture involving recurrent components and optional convolutional ones.

175, TITLE: The Trumpiest Trump? Identifying a Subject's Most Characteristic Tweets
https://www.aclweb.org/anthology/D19-1175
AUTHORS: Charuta Pethe, Steve Skiena
HIGHLIGHT: We quantify the extent to which a given short text is characteristic of a specific person, using a dataset of tweets from fifteen celebrities. Such analysis is useful for generating excerpts of high-volume Twitter profiles, and understanding how representativeness relates to tweet popularity.

176, TITLE: Finding Microaggressions in the Wild: A Case for Locating Elusive Phenomena in Social Media Posts
https://www.aclweb.org/anthology/D19-1176
AUTHORS: Luke Breitfeller, Emily Ahn, David Jurgens, Yulia Tsvetkov
HIGHLIGHT: In this paper, we devise a general but nuanced, computationally operationalizable typology of microaggressions based on a small subset of data that we have.

177, TITLE: Reinforced Product Metadata Selection for Helpfulness Assessment of Customer Reviews
https://www.aclweb.org/anthology/D19-1177

AUTHORS: Miao Fan, Chao Feng, Mingming Sun, Ping Li
HIGHLIGHT: To address this problem, we propose a novel framework composed of two mutual-benefit modules.

178, TITLE: Learning Invariant Representations of Social Media Users
https://www.aclweb.org/anthology/D19-1178
AUTHORS: Nicholas Andrews, Marcus Bishop
HIGHLIGHT: In this paper, we propose a novel procedure to learn a mapping from short episodes of user activity on social media to a vector space in which the distance between points captures the similarity of the corresponding users' invariant features.

179, TITLE: (Male, Bachelor) and (Female, Ph.D) have different connotations: Parallelly Annotated Stylistic Language Dataset with Multiple Personas
https://www.aclweb.org/anthology/D19-1179
AUTHORS: Dongyeop Kang, Varun Gangal, Eduard Hovy
HIGHLIGHT: We release PASTEL, the parallel and annotated stylistic language dataset, that contains ~41K parallel sentences (8.3K parallel stories) annotated across different personas.

180, TITLE: Movie Plot Analysis via Turning Point Identification
https://www.aclweb.org/anthology/D19-1180
AUTHORS: Pinelopi Papalampidi, Frank Keller, Mirella Lapata
HIGHLIGHT: We propose the task of turning point identification in movies as a means of analyzing their narrative structure. We introduce a dataset consisting of screenplays and plot synopses annotated with turning points and present an end-to-end neural network model that identifies turning points in plot synopses and projects them onto scenes in screenplays.

181, TITLE: Latent Suicide Risk Detection on Microblog via Suicide-Oriented Word Embeddings and Layered Attention
https://www.aclweb.org/anthology/D19-1181
AUTHORS: Lei Cao, Huijun Zhang, Ling Feng, Zihan Wei, Xin Wang, Ningyun Li, Xiaohao He
HIGHLIGHT: Enlightened by the hidden "tree holes" phenomenon on microblog, where people at suicide risk tend to disclose their inner real feelings and thoughts to the microblog space whose authors have committed suicide, we explore the use of tree holes to enhance microblog-based suicide risk detection from the following two perspectives. A large-scale well-labelled suicide data set is also reported in the paper.

182, TITLE: Deep Ordinal Regression for Pledge Specificity Prediction
https://www.aclweb.org/anthology/D19-1182
AUTHORS: Shivashankar Subramanian, Trevor Cohn, Timothy Baldwin
HIGHLIGHT: In this paper we collate a novel dataset of manifestos from eleven Australian federal election cycles, with over 12,000 sentences annotated with specificity (e.g., rhetorical vs detailed pledge) on a fine-grained scale. We propose deep ordinal regression approaches for specificity prediction, under both supervised and semi-supervised settings, and provide empirical results demonstrating the effectiveness of the proposed techniques over several baseline approaches.

183, TITLE: Data-Efficient Goal-Oriented Conversation with Dialogue Knowledge Transfer Networks
https://www.aclweb.org/anthology/D19-1183
AUTHORS: Igor Shalyminov, Sungjin Lee, Arash Eshghi, Oliver Lemon
HIGHLIGHT: In this paper, we present the Dialogue Knowledge Transfer Network (DiKTNet), a state-of-the-art approach to goal-oriented dialogue generation which only uses a few example dialogues (i.e. few-shot learning), none of which has to be annotated.

184, TITLE: Multi-Granularity Representations of Dialog
https://www.aclweb.org/anthology/D19-1184
AUTHORS: Shikib Mehri, Maxine Eskenazi
HIGHLIGHT: This paper introduces a novel training procedure which explicitly learns multiple representations of language at several levels of granularity.

185, TITLE: Are You for Real? Detecting Identity Fraud via Dialogue Interactions
https://www.aclweb.org/anthology/D19-1185
AUTHORS: Weikang Wang, Jiajun Zhang, Qian Li, Chengqing Zong, Zhifei Li
HIGHLIGHT: In this paper, we focus on identity fraud detection in loan applications and propose to solve this problem with a novel interactive dialogue system which consists of two modules.

186, TITLE: Hierarchy Response Learning for Neural Conversation Generation
https://www.aclweb.org/anthology/D19-1186
AUTHORS: Bo Zhang, Xiaoming Zhang

HIGHLIGHT: Unlike past work that has focused on diversifying the output at word-level or discourse-level with a flat model to alleviate this problem, we propose a hierarchical generation model to capture the different levels of diversity using the conditional variational autoencoders.

187, TITLE: Knowledge Aware Conversation Generation with Explainable Reasoning over Augmented Graphs
https://www.aclweb.org/anthology/D19-1187
AUTHORS: zhibin liu, Zheng-Yu Niu, Hua Wu, Haifeng Wang
HIGHLIGHT: To address this challenge, we propose a knowledge aware chatting machine with three components, an augmented knowledge graph with both triples and texts, knowledge selector, and knowledge aware response generator.

188, TITLE: Adaptive Parameterization for Neural Dialogue Generation
https://www.aclweb.org/anthology/D19-1188
AUTHORS: Hengyi Cai, Hongshen Chen, Cheng Zhang, Yonghao Song, Xiaofang Zhao, Dawei Yin
HIGHLIGHT: In this work, we propose an Adaptive Neural Dialogue generation model, AdaND, which manages various conversations with conversation-specific parameterization.

189, TITLE: Towards Knowledge-Based Recommender Dialog System
https://www.aclweb.org/anthology/D19-1189
AUTHORS: Qibin Chen, Junyang Lin, Yichang Zhang, Ming Ding, Yukuo Cen, Hongxia Yang, Jie Tang
HIGHLIGHT: In this paper, we propose a novel end-to-end framework called KBRD, which stands for Knowledge-Based Recommender Dialog System.

190, TITLE: Structuring Latent Spaces for Stylized Response Generation
https://www.aclweb.org/anthology/D19-1190
AUTHORS: Xiang Gao, Yizhe Zhang, Sungjin Lee, Michel Galley, Chris Brockett, Jianfeng Gao, Bill Dolan
HIGHLIGHT: We propose StyleFusion, which bridges conversation modeling and non-parallel style transfer by sharing a structured latent space.

191, TITLE: Improving Open-Domain Dialogue Systems via Multi-Turn Incomplete Utterance Restoration
https://www.aclweb.org/anthology/D19-1191
AUTHORS: Zhufeng Pan, Kun Bai, Yan Wang, Lianqiang Zhou, Xiaojiang Liu
HIGHLIGHT: To facilitate the study of incomplete utterance restoration for open-domain dialogue systems, a large-scale multi-turn dataset Restoration-200K is collected and manually labeled with the explicit relation between an utterance and its context. We also propose a “pick-and-combine” model to restore the incomplete utterance from its context.

192, TITLE: Unsupervised Context Rewriting for Open Domain Conversation
https://www.aclweb.org/anthology/D19-1192
AUTHORS: Kun Zhou, Kai Zhang, Yu Wu, Shujie Liu, Jingsong Yu
HIGHLIGHT: This paper proposes an explicit context rewriting method, which rewrites the last utterance by considering context history.

193, TITLE: Dually Interactive Matching Network for Personalized Response Selection in Retrieval-Based Chatbots
https://www.aclweb.org/anthology/D19-1193
AUTHORS: Jia-Chen Gu, Zhen-Hua Ling, Xiaodan Zhu, Quan Liu
HIGHLIGHT: This paper proposes a dually interactive matching network (DIM) for presenting the personalities of dialogue agents in retrieval-based chatbots.

194, TITLE: DyKgChat: Benchmarking Dialogue Generation Grounding on Dynamic Knowledge Graphs
https://www.aclweb.org/anthology/D19-1194
AUTHORS: Yi-Lin Tuan, Yun-Nung Chen, Hung-yi Lee
HIGHLIGHT: This paper proposes a new task about how to apply dynamic knowledge graphs in neural conversation model and presents a novel TV series conversation corpus (DyKgChat) for the task.

195, TITLE: Retrieval-guided Dialogue Response Generation via a Matching-to-Generation Framework
https://www.aclweb.org/anthology/D19-1195
AUTHORS: Deng Cai, Yan Wang, Wei Bi, Zhaopeng Tu, Xiaojiang Liu, Shuming Shi
HIGHLIGHT: This paper presents a novel framework in which the skeleton extraction is made by an interpretable matching model and the following skeleton-guided response generation is accomplished by a separately trained generator.

196, TITLE: Scalable and Accurate Dialogue State Tracking via Hierarchical Sequence Generation

https://www.aclweb.org/anthology/D19-1196
AUTHORS: Liliang Ren, Jianmo Ni, Julian McAuley
HIGHLIGHT: In this paper, we investigate how to approach DST using a generation framework without the pre-defined ontology list.

197, TITLE: Low-Resource Response Generation with Template Prior
https://www.aclweb.org/anthology/D19-1197
AUTHORS: Ze Yang, wei wu, Jian Yang, Can Xu, zhoujun li
HIGHLIGHT: Since the paired data now is no longer enough to train a neural generation model, we consider leveraging the large scale of unpaired data that are much easier to obtain, and propose response generation with both paired and unpaired data.

198, TITLE: A Discrete CVAE for Response Generation on Short-Text Conversation
https://www.aclweb.org/anthology/D19-1198
AUTHORS: Jun Gao, Wei Bi, Xiaojiang Liu, Junhui Li, Guodong Zhou, Shuming Shi
HIGHLIGHT: In this paper, we introduce a discrete latent variable with an explicit semantic meaning to improve the CVAE on short-text conversation.

199, TITLE: Who Is Speaking to Whom? Learning to Identify Utterance Addressee in Multi-Party Conversations
https://www.aclweb.org/anthology/D19-1199
AUTHORS: Ran Le, Wenpeng Hu, Mingyue Shang, Zhenjun You, Lidong Bing, Dongyan Zhao, Rui Yan
HIGHLIGHT: In this paper, we aim to tackle the challenge of identifying all the miss- ing addressees in a conversation session.

200, TITLE: A Semi-Supervised Stable Variational Network for Promoting Replier-Consistency in Dialogue Generation
https://www.aclweb.org/anthology/D19-1200
AUTHORS: Jinxin Chang, Ruifang He, Longbiao Wang, Xiangyu Zhao, Ting Yang, Ruifang Wang
HIGHLIGHT: However, the sampled information from latent space usually becomes useless due to the KL divergence vanishing issue, and the highly abstractive global variables easily dilute the personal features of replier, leading to a non replier-specific response. Therefore, a novel Semi-Supervised Stable Variational Network (SSVN) is proposed to address these issues.

201, TITLE: Modeling Personalization in Continuous Space for Response Generation via Augmented Wasserstein Autoencoders
https://www.aclweb.org/anthology/D19-1201
AUTHORS: Zhangming Chan, Juntao Li, Xiaopeng Yang, Xiuying Chen, Wenpeng Hu, Dongyan Zhao, Rui Yan
HIGHLIGHT: In this work, we improve the WAE for response generation.

202, TITLE: Variational Hierarchical User-based Conversation Model
https://www.aclweb.org/anthology/D19-1202
AUTHORS: JinYeong Bak, Alice Oh
HIGHLIGHT: To overcome this limitation, we propose a new model with a stochastic variable designed to capture the speaker information and deliver it to the conversational context. To test whether our model generates more appropriate conversation responses, we build a new conversation corpus containing approximately 27,000 speakers and 770,000 conversations.

203, TITLE: Recommendation as a Communication Game: Self-Supervised Bot-Play for Goal-oriented Dialogue
https://www.aclweb.org/anthology/D19-1203
AUTHORS: Dongyeop Kang, Anusha Balakrishnan, Pararth Shah, Paul Crook, Y-Lan Boureau, Jason Weston
HIGHLIGHT: In this work, we collect a goal-driven recommendation dialogue dataset (GoRecDial), which consists of 9,125 dialogue games and 81,260 conversation turns between pairs of human workers recommending movies to each other. We leverage the dataset to develop an end-to-end dialogue system that can simultaneously converse and recommend.

204, TITLE: CoSQL: A Conversational Text-to-SQL Challenge Towards Cross-Domain Natural Language Interfaces to Databases
https://www.aclweb.org/anthology/D19-1204
AUTHORS: Tao Yu, Rui Zhang, Heyang Er, Suyi Li, Eric Xue, Bo Pang, Xi Victoria Lin, Yi Chern Tan, Tianze Shi, Zihan Li, Youxuan Jiang, Michihiro Yasunaga, Sungrok Shim, Tao Chen, Alexander Fabbri, Zifan Li, Luyao Chen, Yuwen Zhang, Shreya Dixit, Vincent Zhang, Caiming Xiong, Richard Socher, Walter Lasecki, Dragomir Radev
HIGHLIGHT: We present CoSQL, a corpus for building cross-domain, general-purpose database (DB) querying dialogue systems.

205, TITLE: A Practical Dialogue-Act-Driven Conversation Model for Multi-Turn Response Selection
https://www.aclweb.org/anthology/D19-1205

AUTHORS: Harshit Kumar, Arvind Agarwal, Sachindra Joshi
HIGHLIGHT: This paper proposes an end-to-end multi-task model for conversation modeling, which is optimized for two tasks, dialogue act prediction and response selection, with the latter being the task of interest.

206, TITLE: How to Build User Simulators to Train RL-based Dialog Systems
https://www.aclweb.org/anthology/D19-1206
AUTHORS: Weiyan Shi, Kun Qian, Xuewei Wang, Zhou Yu
HIGHLIGHT: We propose a method of standardizing user simulator building that can be used by the community to compare dialog system quality using the same set of user simulators fairly.

207, TITLE: Low-Rank HOCA: Efficient High-Order Cross-Modal Attention for Video Captioning
https://www.aclweb.org/anthology/D19-1207
AUTHORS: Tao Jin, Siyu Huang, Yingming Li, Zhongfei Zhang
HIGHLIGHT: Motivated by this, we propose a video captioning model with High-Order Cross-Modal Attention (HOCA) where the attention weights are calculated based on the high-order correlation tensor to capture the frame-level cross-modal interaction of different modalities sufficiently.

208, TITLE: Image Captioning with Very Scarce Supervised Data: Adversarial Semi-Supervised Learning Approach
https://www.aclweb.org/anthology/D19-1208
AUTHORS: Dong-Jin Kim, Jinsoo Choi, Tae-Hyun Oh, In So Kweon
HIGHLIGHT: In this paper, we develop a novel data-efficient semi-supervised framework for training an image captioning model.
To evaluate, we construct scarcely-paired COCO dataset, a modified version of MS COCO caption dataset.

209, TITLE: Dual Attention Networks for Visual Reference Resolution in Visual Dialog
https://www.aclweb.org/anthology/D19-1209
AUTHORS: Gi-Cheon Kang, Jaeseo Lim, Byoung-Tak Zhang
HIGHLIGHT: In this paper, we propose Dual Attention Networks (DAN) for visual reference resolution in VisDial.

210, TITLE: Unsupervised Discovery of Multimodal Links in Multi-image, Multi-sentence Documents
https://www.aclweb.org/anthology/D19-1210
AUTHORS: Jack Hessel, Lillian Lee, David Mimno
HIGHLIGHT: We present algorithms that discover image-sentence relationships without relying on explicit multimodal annotation in training.

211, TITLE: UR-FUNNY: A Multimodal Language Dataset for Understanding Humor
https://www.aclweb.org/anthology/D19-1211
AUTHORS: Md Kamrul Hasan, Wasifur Rahman, AmirAli Bagher Zadeh, Jianyuan Zhong, Md Iftekhar Tanveer, Louis-Philippe Morency, Mohammed (Ehsan) Hoque
HIGHLIGHT: The dataset and accompanying studies, present a framework in multimodal humor detection for the natural language processing community.
This paper presents a diverse multimodal dataset, called UR-FUNNY, to open the door to understanding multimodal language used in expressing humor.

212, TITLE: Partners in Crime: Multi-view Sequential Inference for Movie Understanding
https://www.aclweb.org/anthology/D19-1212
AUTHORS: Nikos Papasarantopoulos, Lea Frermann, Mirella Lapata, Shay B. Cohen
HIGHLIGHT: We describe an incremental neural architecture paired with a novel training objective for incremental inference.

213, TITLE: Guiding the Flowing of Semantics: Interpretable Video Captioning via POS Tag
https://www.aclweb.org/anthology/D19-1213
AUTHORS: Xinyu Xiao, Lingfeng Wang, Bin Fan, Shinming Xiang, Chunhong Pan
HIGHLIGHT: To address these problems, we propose an Adaptive Semantic Guidance Network (ASGN), which instantiates the whole video semantics to different POS-aware semantics with the supervision of part of speech (POS) tag.

214, TITLE: A Stack-Propagation Framework with Token-Level Intent Detection for Spoken Language Understanding
https://www.aclweb.org/anthology/D19-1214
AUTHORS: Libo Qin, Wanxiang Che, Yangming Li, Haoyang Wen, Ting Liu
HIGHLIGHT: In this paper, we propose a novel framework for SLU to better incorporate the intent information, which further guiding the slot filling.

215, TITLE: Talk2Car: Taking Control of Your Self-Driving Car
https://www.aclweb.org/anthology/D19-1215
AUTHORS: Thierry Deruyttere, Simon Vandenhende, Dusan Grujicic, Luc Van Gool, Marie-Francine Moens
HIGHLIGHT: In this paper we consider the former.
Our work presents the Talk2Car dataset, which is the first object referral dataset that contains commands written in natural language for self-driving cars.

216, TITLE: Fact-Checking Meets Fauxtography: Verifying Claims About Images
https://www.aclweb.org/anthology/D19-1216
AUTHORS: Dimitrina Zlatkova, Preslav Nakov, Ivan Koychev
HIGHLIGHT: In particular, we create a new dataset for this problem, and we explore a variety of features modeling the claim, the image, and the relationship between the claim and the image.

217, TITLE: Video Dialog via Progressive Inference and Cross-Transformer
https://www.aclweb.org/anthology/D19-1217
AUTHORS: Weike Jin, Zhou Zhao, Mao Gu, Jun Xiao, Furu Wei, Yueting Zhuang
HIGHLIGHT: In this paper, we introduce a novel progressive inference mechanism for video dialog, which progressively updates query information based on dialog history and video content until the agent think the information is sufficient and unambiguous.

218, TITLE: Executing Instructions in Situated Collaborative Interactions
https://www.aclweb.org/anthology/D19-1218
AUTHORS: Alane Suhr, Claudia Yan, Jack Schluger, Stanley Yu, Hadi Khader, Marwa Mouallem, Iris Zhang, Yoav Artzi
HIGHLIGHT: We introduce a learning approach focused on recovery from cascading errors between instructions, and modeling methods to explicitly reason about instructions with multiple goals.

219, TITLE: Fusion of Detected Objects in Text for Visual Question Answering
https://www.aclweb.org/anthology/D19-1219
AUTHORS: Chris Alberti, Jeffrey Ling, Michael Collins, David Reitter
HIGHLIGHT: To advance models of multimodal context, we introduce a simple yet powerful neural architecture for data that combines vision and natural language.

220, TITLE: TIGEr: Text-to-Image Grounding for Image Caption Evaluation
https://www.aclweb.org/anthology/D19-1220
AUTHORS: Ming Jiang, Qiuyuan Huang, Lei Zhang, Xin Wang, Pengchuan Zhang, Zhe Gan, Jana Diesner, Jianfeng Gao
HIGHLIGHT: This paper presents a new metric called TIGEr for the automatic evaluation of image captioning systems.

221, TITLE: Universal Adversarial Triggers for Attacking and Analyzing NLP
https://www.aclweb.org/anthology/D19-1221
AUTHORS: Eric Wallace, Shi Feng, Nikhil Kandpal, Matt Gardner, Sameer Singh
HIGHLIGHT: We propose a gradient-guided search over tokens which finds short trigger sequences (e.g., one word for classification and four words for language modeling) that successfully trigger the target prediction.

222, TITLE: To Annotate or Not? Predicting Performance Drop under Domain Shift
https://www.aclweb.org/anthology/D19-1222
AUTHORS: Hady Elsahar, Matthias Gallé
HIGHLIGHT: In this paper, we study the problem of predicting the performance drop of modern NLP models under domain-shift, in the absence of any target domain labels.

223, TITLE: Adaptively Sparse Transformers
https://www.aclweb.org/anthology/D19-1223
AUTHORS: Gonçalo M. Correia, Vlad Niculae, André F. T. Martins
HIGHLIGHT: In this work, we introduce the adaptively sparse Transformer, wherein attention heads have flexible, context-dependent sparsity patterns.

224, TITLE: Show Your Work: Improved Reporting of Experimental Results
https://www.aclweb.org/anthology/D19-1224
AUTHORS: Jesse Dodge, Suchin Gururangan, Dallas Card, Roy Schwartz, Noah A. Smith
HIGHLIGHT: In this paper, we demonstrate that test-set performance scores alone are insufficient for drawing accurate conclusions about which model performs best.

225, TITLE: A Deep Factorization of Style and Structure in Fonts
https://www.aclweb.org/anthology/D19-1225
AUTHORS: Akshay Srivatsan, Jonathan Barron, Dan Klein, Taylor Berg-Kirkpatrick
HIGHLIGHT: We propose a deep factorization model for typographic analysis that disentangles content from style.

226, TITLE: Cross-lingual Semantic Specialization via Lexical Relation Induction
https://www.aclweb.org/anthology/D19-1226
AUTHORS: Edoardo Maria Ponti, Ivan Vuli?, Goran Glavaš, Roi Reichart, Anna Korhonen
HIGHLIGHT: To bridge this gap, we propose a novel method that transfers specialization from a resource-rich source language (English) to virtually any target language.

227, TITLE: Modelling the interplay of metaphor and emotion through multitask learning
https://www.aclweb.org/anthology/D19-1227
AUTHORS: Verna Dankers, Marek Rei, Martha Lewis, Ekaterina Shutova
HIGHLIGHT: In this paper, we investigate the relationship between metaphor and emotion within a computational framework, by proposing the first joint model of these phenomena.

228, TITLE: How well do NLI models capture verb veridicality?
https://www.aclweb.org/anthology/D19-1228
AUTHORS: Alexis Ross, Ellie Pavlick
HIGHLIGHT: We investigate whether a state-of-the-art natural language inference model (BERT) learns to make correct inferences about veridicality in verb-complement constructions. We introduce an NLI dataset for veridicality evaluation consisting of 1,500 sentence pairs, covering 137 unique verbs.

229, TITLE: Modeling Color Terminology Across Thousands of Languages
https://www.aclweb.org/anthology/D19-1229
AUTHORS: Arya D. McCarthy, Winston Wu, Aaron Mueller, William Watson, David Yarowsky
HIGHLIGHT: This paper employs a set of diverse measures on massively cross-linguistic data to operationalize and critique the Berlin and Kay color term hypotheses.

230, TITLE: Negative Focus Detection via Contextual Attention Mechanism
https://www.aclweb.org/anthology/D19-1230
AUTHORS: Longxiang Shen, Bowei Zou, Yu Hong, Guodong Zhou, Qiaoming Zhu, AiTi Aw
HIGHLIGHT: In particular, we introduce a framework which consists of a Bidirectional Long Short-Term Memory (BiLSTM) neural network and a Conditional Random Fields (CRF) layer to effectively encode the order information and the long-range context dependency in a sentence.

231, TITLE: A Unified Neural Coherence Model
https://www.aclweb.org/anthology/D19-1231
AUTHORS: Han Cheol Moon, Tasnim Mohiuddin, Shafiq Joty, Chi Xu
HIGHLIGHT: In this paper, we propose a unified coherence model that incorporates sentence grammar, inter-sentence coherence relations, and global coherence patterns into a common neural framework.

232, TITLE: Topic-Guided Coherence Modeling for Sentence Ordering by Preserving Global and Local Information
https://www.aclweb.org/anthology/D19-1232
AUTHORS: Byungkook Oh, Seungmin Seo, Cheolheon Shin, Eunju Jo, Kyong-Ho Lee
HIGHLIGHT: We propose a novel topic-guided coherence modeling (TGCM) for sentence ordering.

233, TITLE: Neural Generative Rhetorical Structure Parsing
https://www.aclweb.org/anthology/D19-1233
AUTHORS: Amandla Mabona, Laura Rimell, Stephen Clark, Andreas Vlachos
HIGHLIGHT: In this paper, we present the first generative model for RST parsing.

234, TITLE: Weak Supervision for Learning Discourse Structure
https://www.aclweb.org/anthology/D19-1234
AUTHORS: Sonia Badene, Kate Thompson, Jean-Pierre Lorré, Nicholas Asher
HIGHLIGHT: This paper provides a detailed comparison of a data programming approach with (i) off-the-shelf, state-of-the-art deep learning architectures that optimize their representations (BERT) and (ii) handcrafted-feature approaches previously used in the discourse analysis literature.

235, TITLE: Predicting Discourse Structure using Distant Supervision from Sentiment
https://www.aclweb.org/anthology/D19-1235
AUTHORS: Patrick Huber, Giuseppe Carenini
HIGHLIGHT: We propose a novel approach that uses distant supervision on an auxiliary task (sentiment classification), to generate abundant data for RST-style discourse structure prediction.

236, TITLE: The Myth of Double-Blind Review Revisited: ACL vs. EMNLP
https://www.aclweb.org/anthology/D19-1236
AUTHORS: Cornelia Caragea, Ana Uban, Liviu P. Dinu
HIGHLIGHT: We study this question on the ACL and EMNLP paper collections and present an analysis on how well deep learning techniques can infer the authors of a paper.

237, TITLE: Uncover Sexual Harassment Patterns from Personal Stories by Joint Key Element Extraction and Categorization
https://www.aclweb.org/anthology/D19-1237
AUTHORS: Yingchi Liu, Quanzhi Li, Marika Cifor, Xiaozhong Liu, Qiong Zhang, Luo Si
HIGHLIGHT: In this study, we manually annotated those stories with labels in the dimensions of location, time, and harassers' characteristics, and marked the key elements related to these dimensions.

238, TITLE: Identifying Predictive Causal Factors from News Streams
https://www.aclweb.org/anthology/D19-1238
AUTHORS: Ananth Balashankar, Sunandan Chakraborty, Samuel Fraiberger, Lakshminarayanan Subramanian
HIGHLIGHT: We propose a new framework to uncover the relationship between news events and real world phenomena.

239, TITLE: Training Data Augmentation for Detecting Adverse Drug Reactions in User-Generated Content
https://www.aclweb.org/anthology/D19-1239
AUTHORS: Sepideh Mesbah, Jie Yang, Robert-Jan Sips, Manuel Valle Torre, Christoph Lofi, Alessandro Bozzon, Geert-Jan Houben
HIGHLIGHT: In this paper, we introduce a data augmentation approach that leverages variational autoencoders to learn high-quality data distributions from a large unlabeled dataset, and subsequently, to automatically generate a large labeled training set from a small set of labeled samples.

240, TITLE: Deep Reinforcement Learning-based Text Anonymization against Private-Attribute Inference
https://www.aclweb.org/anthology/D19-1240
AUTHORS: Ahmadreza Mosallanezhad, Ghazaleh Beigi, Huan Liu
HIGHLIGHT: In this paper, we study the problem of textual data anonymization and propose a novel Reinforcement Learning-based Text Anonymizor, RLTA, which addresses the problem of private-attribute leakage while preserving the utility of textual data.

241, TITLE: Tree-structured Decoding for Solving Math Word Problems
https://www.aclweb.org/anthology/D19-1241
AUTHORS: Qianying Liu, Wenyv Guan, Sujian Li, Daisuke Kawahara
HIGHLIGHT: To address this problem, we propose a tree-structured decoding method that generates the abstract syntax tree of the equation in a top-down manner.

242, TITLE: PullNet: Open Domain Question Answering with Iterative Retrieval on Knowledge Bases and Text
https://www.aclweb.org/anthology/D19-1242
AUTHORS: Haitian Sun, Tania Bedrax-Weiss, William Cohen
HIGHLIGHT: We describe PullNet, an integrated framework for (1) learning what to retrieve and (2) reasoning with this heterogeneous information to find the best answer.

243, TITLE: Cosmos QA: Machine Reading Comprehension with Contextual Commonsense Reasoning
https://www.aclweb.org/anthology/D19-1243
AUTHORS: Lifu Huang, Ronan Le Bras, Chandra Bhagavatula, Yejin Choi
HIGHLIGHT: In this paper, we introduce Cosmos QA, a large-scale dataset of 35,600 problems that require commonsense-based reading comprehension, formulated as multiple-choice questions.

244, TITLE: Finding Generalizable Evidence by Learning to Convince Qtextbackslash&A Models
https://www.aclweb.org/anthology/D19-1244
AUTHORS: Ethan Perez, Siddharth Karamcheti, Rob Fergus, Jason Weston, Douwe Kiela, Kyunghyun Cho

HIGHLIGHT: We propose a system that finds the strongest supporting evidence for a given answer to a question, using passage-based question-answering (QA) as a testbed.

245, TITLE: Ranking and Sampling in Open-Domain Question Answering
https://www.aclweb.org/anthology/D19-1245
AUTHORS: Yanfu Xu, Zheng Lin, Yuanxin Liu, Rui Liu, Weiping Wang, Dan Meng
HIGHLIGHT: In this paper, we first introduce a ranking model leveraging the paragraph-question and the paragraph-paragraph relevance to compute a confidence score for each paragraph. Furthermore, based on the scores, we design a modified weighted sampling strategy for training to mitigate the influence of the noisy and distracting paragraphs.

246, TITLE: A Non-commutative Bilinear Model for Answering Path Queries in Knowledge Graphs
https://www.aclweb.org/anthology/D19-1246
AUTHORS: Katsuhiko Hayashi, Masashi Shimbo
HIGHLIGHT: In this paper, we propose a new bilinear KGE model, called BlockHolE, based on block circulant matrices.

247, TITLE: Generating Questions for Knowledge Bases via Incorporating Diversified Contexts and Answer-Aware Loss
https://www.aclweb.org/anthology/D19-1247
AUTHORS: Cao Liu, Kang Liu, Shizhu He, Zaiqing Nie, Jun Zhao
HIGHLIGHT: In this paper, we strive toward the above two issues via incorporating diversified contexts and answer-aware loss.

248, TITLE: Multi-Task Learning for Conversational Question Answering over a Large-Scale Knowledge Base
https://www.aclweb.org/anthology/D19-1248
AUTHORS: Tao Shen, Xiubo Geng, Tao QIN, Daya Guo, Duyu Tang, Nan Duan, Guodong Long, Daxin Jiang
HIGHLIGHT: To tackle these issues, we propose an innovative multi-task learning framework where a pointer-equipped semantic parsing model is designed to resolve coreference in conversations, and naturally empower joint learning with a novel type-aware entity detection model.

249, TITLE: BiPaR: A Bilingual Parallel Dataset for Multilingual and Cross-lingual Reading Comprehension on Novels
https://www.aclweb.org/anthology/D19-1249
AUTHORS: Yimin Jing, Deyi Xiong, Zhen Yan
HIGHLIGHT: This paper presents BiPaR, a bilingual parallel novel-style machine reading comprehension (MRC) dataset, developed to support multilingual and cross-lingual reading comprehension.

250, TITLE: Language Models as Knowledge Bases?
https://www.aclweb.org/anthology/D19-1250
AUTHORS: Fabio Petroni, Tim Rocktäschel, Sebastian Riedel, Patrick Lewis, Anton Bakhtin, Yuxiang Wu, Alexander Miller
HIGHLIGHT: We present an in-depth analysis of the relational knowledge already present (without fine-tuning) in a wide range of state-of-the-art pretrained language models.

251, TITLE: NumNet: Machine Reading Comprehension with Numerical Reasoning
https://www.aclweb.org/anthology/D19-1251
AUTHORS: Qiu Ran, Yankai Lin, Peng Li, Jie Zhou, Zhiyuan Liu
HIGHLIGHT: To address this issue, we propose a numerical MRC model named as NumNet, which utilizes a numerically-aware graph neural network to consider the comparing information and performs numerical reasoning over numbers in the question and passage.

252, TITLE: Unicoder: A Universal Language Encoder by Pre-training with Multiple Cross-lingual Tasks
https://www.aclweb.org/anthology/D19-1252
AUTHORS: Haoyang Huang, Yaobo Liang, Nan Duan, Ming Gong, Linjun Shou, Daxin Jiang, Ming Zhou
HIGHLIGHT: We present Unicoder, a universal language encoder that is insensitive to different languages.

253, TITLE: Addressing Semantic Drift in Question Generation for Semi-Supervised Question Answering
https://www.aclweb.org/anthology/D19-1253
AUTHORS: Shiyue Zhang, Mohit Bansal
HIGHLIGHT: We propose two ways to generate synthetic QA pairs: generate new questions from existing articles or collect QA pairs from new articles.

254, TITLE: Adversarial Domain Adaptation for Machine Reading Comprehension

https://www.aclweb.org/anthology/D19-1254
AUTHORS: Huazheng Wang, Zhe Gan, Xiaodong Liu, Jingjing Liu, Jianfeng Gao, Hongning Wang
HIGHLIGHT: In this paper, we focus on unsupervised domain adaptation for Machine Reading Comprehension (MRC), where the source domain has a large amount of labeled data, while only unlabeled passages are available in the target domain.

255, TITLE: Incorporating External Knowledge into Machine Reading for Generative Question Answering
https://www.aclweb.org/anthology/D19-1255
AUTHORS: Bin Bi, Chen Wu, Ming Yan, Wei Wang, Jiangnan Xia, Chenliang Li
HIGHLIGHT: In this paper, we propose a new neural model, Knowledge-Enriched Answer Generator (KEAG), which is able to compose a natural answer by exploiting and aggregating evidence from all four information sources available: question, passage, vocabulary and knowledge.

256, TITLE: Answering questions by learning to rank - Learning to rank by answering questions
https://www.aclweb.org/anthology/D19-1256
AUTHORS: George Sebastian Pirtoaca, Traian Rebedea, Stefan Ruseti
HIGHLIGHT: The contribution of this article is two-fold. First, it describes a method which can be used to semantically rank documents extracted from Wikipedia or similar natural language corpora. Second, we propose a model employing the semantic ranking that holds the first place in two of the most popular leaderboards for answering multiple-choice questions: ARC Easy and Challenge.

257, TITLE: Discourse-Aware Semantic Self-Attention for Narrative Reading Comprehension
https://www.aclweb.org/anthology/D19-1257
AUTHORS: Todor Mihaylov, Anette Frank
HIGHLIGHT: In this work, we propose to use linguistic annotations as a basis for a Discourse-Aware Semantic Self-Attention encoder that we employ for reading comprehension on narrative texts.

258, TITLE: Revealing the Importance of Semantic Retrieval for Machine Reading at Scale
https://www.aclweb.org/anthology/D19-1258
AUTHORS: Yixin Nie, Songhe Wang, Mohit Bansal
HIGHLIGHT: In this work, we give general guidelines on system design for MRS by proposing a simple yet effective pipeline system with special consideration on hierarchical semantic retrieval at both paragraph and sentence level, and their potential effects on the downstream task.

259, TITLE: PubMedQA: A Dataset for Biomedical Research Question Answering
https://www.aclweb.org/anthology/D19-1259
AUTHORS: Qiao Jin, Bhuwan Dhingra, Zhengping Liu, William Cohen, Xinghua Lu
HIGHLIGHT: We introduce PubMedQA, a novel biomedical question answering (QA) dataset collected from PubMed abstracts.

260, TITLE: Quick and (not so) Dirty: Unsupervised Selection of Justification Sentences for Multi-hop Question Answering
https://www.aclweb.org/anthology/D19-1260
AUTHORS: Vikas Yadav, Steven Bethard, Mihai Surdeanu
HIGHLIGHT: We propose an unsupervised strategy for the selection of justification sentences for multi-hop question answering (QA) that (a) maximizes the relevance of the selected sentences, (b) minimizes the overlap between the selected facts, and (c) maximizes the coverage of both question and answer.

261, TITLE: Answering Complex Open-domain Questions Through Iterative Query Generation
https://www.aclweb.org/anthology/D19-1261
AUTHORS: Peng Qi, Xiaowen Lin, Leo Mehr, Zijian Wang, Christopher D. Manning
HIGHLIGHT: We present GoldEn (Gold Entity) Retriever, which iterates between reading context and retrieving more supporting documents to answer open-domain multi-hop questions.

262, TITLE: NL2pSQL: Generating Pseudo-SQL Queries from Under-Specified Natural Language Questions
https://www.aclweb.org/anthology/D19-1262
AUTHORS: Fuxiang Chen, Seung-won Hwang, Jaegul Choo, Jung-Woo Ha, Sunghun Kim
HIGHLIGHT: Here we describe a new NL2pSQL task to generate pSQL codes from natural language questions on under-specified database issues, NL2pSQL.

263, TITLE: Leveraging Frequent Query Substructures to Generate Formal Queries for Complex Question Answering
https://www.aclweb.org/anthology/D19-1263
AUTHORS: Jiwei Ding, Wei Hu, Qixin Xu, Yuzhong Qu

HIGHLIGHT: In this paper, we propose SubQG, a new query generation approach based on frequent query substructures, which helps rank the existing (but nonsignificant) query structures or build new query structures.

264, TITLE: Incorporating Graph Attention Mechanism into Knowledge Graph Reasoning Based on Deep Reinforcement Learning
https://www.aclweb.org/anthology/D19-1264
AUTHORS: Heng Wang, Shuangyin Li, Rong Pan, Mingzhi Mao
HIGHLIGHT: In this paper, we present a deep reinforcement learning based model named by AttnPath, which incorporates LSTM and Graph Attention Mechanism as the memory components.

265, TITLE: Learning to Update Knowledge Graphs by Reading News
https://www.aclweb.org/anthology/D19-1265
AUTHORS: Jizhi Tang, Yansong Feng, Dongyan Zhao
HIGHLIGHT: In this paper, we propose a novel neural network method, GUpdater, to tackle these problems.

266, TITLE: DIVINE: A Generative Adversarial Imitation Learning Framework for Knowledge Graph Reasoning
https://www.aclweb.org/anthology/D19-1266
AUTHORS: Ruiping Li, Xiang Cheng
HIGHLIGHT: To this end, in this paper, we present DIVINE, a novel plug-and-play framework based on generative adversarial imitation learning for enhancing existing RL-based methods.

267, TITLE: Original Semantics-Oriented Attention and Deep Fusion Network for Sentence Matching
https://www.aclweb.org/anthology/D19-1267
AUTHORS: Mingtong Liu, Yujie Zhang, Jinan Xu, Yufeng Chen
HIGHLIGHT: In this paper, we present an original semantics-oriented attention and deep fusion network (OSOA-DFN) for sentence matching.

268, TITLE: Representation Learning with Ordered Relation Paths for Knowledge Graph Completion
https://www.aclweb.org/anthology/D19-1268
AUTHORS: Yao Zhu, Hongzhi Liu, Zhonghai Wu, Yang Song, Tao Zhang
HIGHLIGHT: To solve these problems, we propose a novel KG completion method named OPTransE.

269, TITLE: Collaborative Policy Learning for Open Knowledge Graph Reasoning
https://www.aclweb.org/anthology/D19-1269
AUTHORS: Cong Fu, Tong Chen, Meng Qu, Woojeong Jin, Xiang Ren
HIGHLIGHT: We propose a novel reinforcement learning framework to train two collaborative agents jointly, i.e., a multi-hop graph reasoner and a fact extractor.

270, TITLE: Modeling Event Background for If-Then Commonsense Reasoning Using Context-aware Variational Autoencoder
https://www.aclweb.org/anthology/D19-1270
AUTHORS: Li Du, Xiao Ding, Ting Liu, Zhongyang Li
HIGHLIGHT: To address these issues, we propose a novel context-aware variational autoencoder effectively learning event background information to guide the If-Then reasoning.

271, TITLE: Asynchronous Deep Interaction Network for Natural Language Inference
https://www.aclweb.org/anthology/D19-1271
AUTHORS: Di Liang, Fubao Zhang, Qi Zhang, Xuanjing Huang
HIGHLIGHT: In this paper, we propose an asynchronous deep interaction network (ADIN) to complete the task.

272, TITLE: Keep Calm and Switch On! Preserving Sentiment and Fluency in Semantic Text Exchange
https://www.aclweb.org/anthology/D19-1272
AUTHORS: Steven Y. Feng, Aaron W. Li, Jesse Hoey
HIGHLIGHT: In this paper, we present a novel method for measurably adjusting the semantics of text while preserving its sentiment and fluency, a task we call semantic text exchange.

273, TITLE: Query-focused Scenario Construction
https://www.aclweb.org/anthology/D19-1273
AUTHORS: Su Wang, Greg Durrett, Katrin Erk

HIGHLIGHT: The news coverage of events often contains not one but multiple incompatible accounts of what happened. We develop a query-based system that extracts compatible sets of events (scenarios) from such data, formulated as one-class clustering.

274, TITLE: Semi-supervised Entity Alignment via Joint Knowledge Embedding Model and Cross-graph Model
https://www.aclweb.org/anthology/D19-1274
AUTHORS: Chengjiang Li, Yixin Cao, Lei Hou, Jiaxin Shi, Juanzi Li, Tat-Seng Chua
HIGHLIGHT: In this paper, we propose a semi-supervised entity alignment method by joint Knowledge Embedding model and Cross-Graph model (KECG).

275, TITLE: Designing and Interpreting Probes with Control Tasks
https://www.aclweb.org/anthology/D19-1275
AUTHORS: John Hewitt, Percy Liang
HIGHLIGHT: In this paper, we propose control tasks, which associate word types with random outputs, to complement linguistic tasks.

276, TITLE: Specializing Word Embeddings (for Parsing) by Information Bottleneck
https://www.aclweb.org/anthology/D19-1276
AUTHORS: Xiang Lisa Li, Jason Eisner
HIGHLIGHT: We propose a very fast variational information bottleneck (VIB) method to nonlinearly compress these embeddings, keeping only the information that helps a discriminative parser.

277, TITLE: Deep Contextualized Word Embeddings in Transition-Based and Graph-Based Dependency Parsing - A Tale of Two Parsers Revisited
https://www.aclweb.org/anthology/D19-1277
AUTHORS: Artur Kulmizev, Miryam de Lhoneux, Johannes Gontrum, Elena Fano, Joakim Nivre
HIGHLIGHT: In this paper, we show that, even though some details of the picture have changed after the switch to neural networks and continuous representations, the basic trade-off between rich features and global optimization remains essentially the same.

278, TITLE: Semantic graph parsing with recurrent neural network DAG grammars
https://www.aclweb.org/anthology/D19-1278
AUTHORS: Federico Fancellu, Sorcha Gilroy, Adam Lopez, Mirella Lapata
HIGHLIGHT: We present recurrent neural network DAG grammars, a graph-aware sequence model that generates only well-formed graphs while sidestepping many difficulties in graph prediction.

279, TITLE: 75 Languages, 1 Model: Parsing Universal Dependencies Universally
https://www.aclweb.org/anthology/D19-1279
AUTHORS: Dan Kondratyuk, Milan Straka
HIGHLIGHT: We present UDify, a multilingual multi-task model capable of accurately predicting universal part-of-speech, morphological features, lemmas, and dependency trees simultaneously for all 124 Universal Dependencies treebanks across 75 languages.

280, TITLE: Interactive Language Learning by Question Answering
https://www.aclweb.org/anthology/D19-1280
AUTHORS: Xingdi Yuan, Marc-Alexandre Côté, Jie Fu, Zhouhan Lin, Chris Pal, Yoshua Bengio, Adam Trischler
HIGHLIGHT: We propose and evaluate a set of baseline models for the QAit task that includes deep reinforcement learning agents.

281, TITLE: What's Missing: A Knowledge Gap Guided Approach for Multi-hop Question Answering
https://www.aclweb.org/anthology/D19-1281
AUTHORS: Tushar Khot, Ashish Sabharwal, Peter Clark
HIGHLIGHT: We propose jointly training a model to simultaneously fill this knowledge gap and compose it with the provided partial knowledge.

282, TITLE: KagNet: Knowledge-Aware Graph Networks for Commonsense Reasoning
https://www.aclweb.org/anthology/D19-1282
AUTHORS: Bill Yuchen Lin, Xinyue Chen, Jamin Chen, Xiang Ren
HIGHLIGHT: In this paper, we propose a textual inference framework for answering commonsense questions, which effectively utilizes external, structured commonsense knowledge graphs to perform explainable inferences.

283, TITLE: Learning with Limited Data for Multilingual Reading Comprehension
https://www.aclweb.org/anthology/D19-1283
AUTHORS: Kyungjae Lee, Sunghyun Park, Hojae Han, Jinyoung Yeo, Seung-won Hwang, Juho Lee
HIGHLIGHT: To address this challenge, we propose a weakly-supervised framework that quantifies such noises from automatically generated labels, to deemphasize or fix noisy data in training.

284, TITLE: A Discrete Hard EM Approach for Weakly Supervised Question Answering
https://www.aclweb.org/anthology/D19-1284
AUTHORS: Sewon Min, Danqi Chen, Hannaneh Hajishirzi, Luke Zettlemoyer
HIGHLIGHT: In this paper, we show it is possible to convert such tasks into discrete latent variable learning problems with a precomputed, task-specific set of possible solutions (e.g. different mentions or equations) that contains one correct option.

285, TITLE: Is the Red Square Big? MALeViC: Modeling Adjectives Leveraging Visual Contexts
https://www.aclweb.org/anthology/D19-1285
AUTHORS: Sandro Pezzelle, Raquel Fernández
HIGHLIGHT: This work aims at modeling how the meaning of gradable adjectives of size (big', small') can be learned from visually-grounded contexts.
In contrast with the standard computational approach that simplistically treats gradable adjectives as fixed' attributes, we pose the problem as relational: to be successful, a model has to consider the full visual context.

286, TITLE: Investigating BERT's Knowledge of Language: Five Analysis Methods with NPIs
https://www.aclweb.org/anthology/D19-1286
AUTHORS: Alex Warstadt, Yu Cao, Ioana Grosu, Wei Peng, Hagen Blix, Yining Nie, Anna Alsop, Shikha Bordia, Haokun Liu, Alicia Parrish, Sheng-Fu Wang, Jason Phang, Anhad Mohananey, Phu Mon Htut, Paloma Jeretic, Samuel R. Bowman
HIGHLIGHT: We explore five experimental methods inspired by prior work evaluating pretrained sentence representation models. We use a single linguistic phenomenon, negative polarity item (NPI) licensing, as a case study for our experiments.

287, TITLE: Representation of Constituents in Neural Language Models: Coordination Phrase as a Case Study
https://www.aclweb.org/anthology/D19-1287
AUTHORS: Aixiu AN, Peng Qian, Ethan Wilcox, Roger Levy
HIGHLIGHT: Here we investigate neural models' ability to represent constituent-level features, using coordinated noun phrases as a case study.

288, TITLE: Towards Zero-shot Language Modeling
https://www.aclweb.org/anthology/D19-1288
AUTHORS: Edoardo Maria Ponti, Ivan Vuli?, Ryan Cotterell, Roi Reichart, Anna Korhonen
HIGHLIGHT: Can we construct a neural language model which is inductively biased towards learning human language? Motivated by this question, we aim at constructing an informative prior for held-out languages on the task of character-level, open-vocabulary language modelling.

289, TITLE: What Gets Echoed? Understanding the ``Pointers'' in Explanations of Persuasive Arguments
https://www.aclweb.org/anthology/D19-1289
AUTHORS: David Atkinson, Kumar Bhargav Srinivasan, Chenhao Tan
HIGHLIGHT: We propose a novel word-level prediction task to investigate how explanations selectively reuse, or echo, information from what is being explained (henceforth, explanandum).

290, TITLE: Modeling Frames in Argumentation
https://www.aclweb.org/anthology/D19-1290
AUTHORS: Yamen Ajjour, Milad Alshomary, Henning Wachsmuth, Benno Stein
HIGHLIGHT: We present a fully unsupervised approach to this task, which first removes topical information and then identifies frames using clustering.
For evaluation purposes, we provide a corpus with 12, 326 debate-portal arguments, organized along the frames of the debates' topics.

291, TITLE: AMPERSAND: Argument Mining for PERSuAsive oNline Discussions
https://www.aclweb.org/anthology/D19-1291
AUTHORS: Tuhin Chakrabarty, Christopher Hidey, Smaranda Muresan, Kathy McKeown, Alyssa Hwang
HIGHLIGHT: We propose a computational model for argument mining in online persuasive discussion forums that brings together the micro-level (argument as product) and macro-level (argument as process) models of argumentation.

292, TITLE: Evaluating adversarial attacks against multiple fact verification systems
https://www.aclweb.org/anthology/D19-1292

AUTHORS: James Thorne, Andreas Vlachos, Christos Christodoulopoulos, Arpit Mittal
HIGHLIGHT: We introduce two novel scoring metrics, attack potency and system resilience which take into account the correctness of the adversarial instances, an aspect often ignored in adversarial evaluations.

293, TITLE: Nonsense!: Quality Control via Two-Step Reason Selection for Annotating Local Acceptability and Related Attributes in News Editorials
https://www.aclweb.org/anthology/D19-1293
AUTHORS: Wonsuk Yang, seungwon yoon, Ada Carpenter, Jong Park
HIGHLIGHT: In this study, we present a simple but powerful quality control method using two-step reason selection.

294, TITLE: Evaluating Pronominal Anaphora in Machine Translation: An Evaluation Measure and a Test Suite
https://www.aclweb.org/anthology/D19-1294
AUTHORS: Prathyusha Jwalapuram, Shafiq Joty, Irina Temnikova, Preslav Nakov
HIGHLIGHT: With this aim in mind, we contribute an extensive, targeted dataset that can be used as a test suite for pronoun translation, covering multiple source languages and different pronoun errors drawn from real system translations, for English.

295, TITLE: A Regularization Approach for Incorporating Event Knowledge and Coreference Relations into Neural Discourse Parsing
https://www.aclweb.org/anthology/D19-1295
AUTHORS: Zeyu Dai, Ruihong Huang
HIGHLIGHT: Realizing that external knowledge and linguistic constraints may not always apply in understanding a particular context, we propose a regularization approach that tightly integrates these constraints with contexts for deriving word representations.

296, TITLE: Weakly Supervised Multilingual Causality Extraction from Wikipedia
https://www.aclweb.org/anthology/D19-1296
AUTHORS: Chikara Hashimoto
HIGHLIGHT: We present a method for extracting causality knowledge from Wikipedia, such as Protectionism -{\textgreater} Trade war, where the cause and effect entities correspond to Wikipedia articles.

297, TITLE: Attribute-aware Sequence Network for Review Summarization
https://www.aclweb.org/anthology/D19-1297
AUTHORS: Junjie Li, Xuepeng Wang, Dawei Yin, Chengqing Zong
HIGHLIGHT: Therefore, we propose an Attribute-aware Sequence Network (ASN) to take the aforementioned users' characteristics into account, which includes three modules: an attribute encoder encodes the attribute preferences over the words; an attribute-aware review encoder adopts an attribute-based selective mechanism to select the important information of a review; and an attribute-aware summary decoder incorporates attribute embedding and attribute-specific word-using habits into word prediction.

298, TITLE: Extractive Summarization of Long Documents by Combining Global and Local Context
https://www.aclweb.org/anthology/D19-1298
AUTHORS: Wen Xiao, Giuseppe Carenini
HIGHLIGHT: In this paper, we propose a novel neural single-document extractive summarization model for long documents, incorporating both the global context of the whole document and the local context within the current topic.

299, TITLE: Enhancing Neural Data-To-Text Generation Models with External Background Knowledge
https://www.aclweb.org/anthology/D19-1299
AUTHORS: Shuang Chen, Jinpeng Wang, Xiaocheng Feng, Feng Jiang, Bing Qin, Chin-Yew Lin
HIGHLIGHT: In this paper, we enhance neural data-to-text models with external knowledge in a simple but effective way to improve the fidelity of generated text.

300, TITLE: Reading Like HER: Human Reading Inspired Extractive Summarization
https://www.aclweb.org/anthology/D19-1300
AUTHORS: Ling Luo, Xiang Ao, Yan Song, Feiyang Pan, Min Yang, Qing He
HIGHLIGHT: In this work, we re-examine the problem of extractive text summarization for long documents.

301, TITLE: Contrastive Attention Mechanism for Abstractive Sentence Summarization
https://www.aclweb.org/anthology/D19-1301
AUTHORS: Xiangyu Duan, Hongfei Yu, Mingming Yin, Min Zhang, Weihua Luo, Yue Zhang
HIGHLIGHT: We propose a contrastive attention mechanism to extend the sequence-to-sequence framework for abstractive sentence summarization task, which aims to generate a brief summary of a given source sentence.

302, TITLE: NCLS: Neural Cross-Lingual Summarization
https://www.aclweb.org/anthology/D19-1302
AUTHORS: Junnan Zhu, Qian Wang, Yining Wang, Yu Zhou, Jiajun Zhang, Shaonan Wang, Chengqing Zong
HIGHLIGHT: To handle that, we present an end-to-end CLS framework, which we refer to as Neural Cross-Lingual Summarization (NCLS), for the first time.

303, TITLE: Clickbait? Sensational Headline Generation with Auto-tuned Reinforcement Learning
https://www.aclweb.org/anthology/D19-1303
AUTHORS: Peng Xu, Chien-Sheng Wu, Andrea Madotto, Pascale Fung
HIGHLIGHT: In this paper, we propose a model that generates sensational headlines without labeled data.

304, TITLE: Concept Pointer Network for Abstractive Summarization
https://www.aclweb.org/anthology/D19-1304
AUTHORS: Wenbo Wang, Yang Gao, Heyan Huang, Yuxiang Zhou
HIGHLIGHT: Inspired by the popular pointer generator sequence-to-sequence model, this paper presents a concept pointer network for improving these aspects of abstractive summarization.

305, TITLE: Surface Realisation Using Full Delexicalisation
https://www.aclweb.org/anthology/D19-1305
AUTHORS: Anastasia Shimorina, Claire Gardent
HIGHLIGHT: We propose a modular approach to surface realisation which models each of these components separately, and evaluate our approach on the 10 languages covered by the SR'18 Surface Realisation Shared Task shallow track.

306, TITLE: IMaT: Unsupervised Text Attribute Transfer via Iterative Matching and Translation
https://www.aclweb.org/anthology/D19-1306
AUTHORS: Zhijing Jin, Di Jin, Jonas Mueller, Nicholas Matthews, Enrico Santus
HIGHLIGHT: In contrast, we propose a simpler approach, Iterative Matching and Translation (IMaT), which: (1) constructs a pseudo-parallel corpus by aligning a subset of semantically similar sentences from the source and the target corpora; (2) applies a standard sequence-to-sequence model to learn the attribute transfer; (3) iteratively improves the learned transfer function by refining imperfections in the alignment.

307, TITLE: Better Rewards Yield Better Summaries: Learning to Summarise Without References
https://www.aclweb.org/anthology/D19-1307
AUTHORS: Florian Böhm, Yang Gao, Christian M. Meyer, Ori Shapira, Ido Dagan, Iryna Gurevych
HIGHLIGHT: To find a better reward function that can guide RL to generate human-appealing summaries, we learn a reward function from human ratings on 2,500 summaries.

308, TITLE: Mixture Content Selection for Diverse Sequence Generation
https://www.aclweb.org/anthology/D19-1308
AUTHORS: Jaemin Cho, Minjoon Seo, Hannaneh Hajishirzi
HIGHLIGHT: We present a method to explicitly separate diversification from generation using a general plug-and-play module (called SELECTOR) that wraps around and guides an existing encoder-decoder model.

309, TITLE: An End-to-End Generative Architecture for Paraphrase Generation
https://www.aclweb.org/anthology/D19-1309
AUTHORS: Qian Yang, zhouyuan huo, Dinghan Shen, Yong Cheng, Wenlin Wang, Guoyin Wang, Lawrence Carin
HIGHLIGHT: To overcome these challenges, we propose the first end-to-end conditional generative architecture for generating paraphrases via adversarial training, which does not depend on extra linguistic information.

310, TITLE: Table-to-Text Generation with Effective Hierarchical Encoder on Three Dimensions (Row, Column and Time)
https://www.aclweb.org/anthology/D19-1310
AUTHORS: Heng Gong, Xiaocheng Feng, Bing Qin, Ting Liu
HIGHLIGHT: To address aforementioned problems, not only do we model each table cell considering other records in the same row, we also enrich table's representation by modeling each table cell in context of other cells in the same column or with historical (time dimension) data respectively.

311, TITLE: Subtopic-driven Multi-Document Summarization
https://www.aclweb.org/anthology/D19-1311
AUTHORS: Xin Zheng, Aixin Sun, Jing Li, Karthik Muthuswamy
HIGHLIGHT: In this paper, we propose a summarization model called STDS.

312, TITLE: Referring Expression Generation Using Entity Profiles
https://www.aclweb.org/anthology/D19-1312
AUTHORS: Meng Cao, Jackie Chi Kit Cheung
HIGHLIGHT: In this study, we address this in two ways. First, we propose task setups in which we specifically test a REG system's ability to generalize to entities not seen during training. Second, we propose a profile-based deep neural network model, ProfileREG, which encodes both the local context and an external profile of the entity to generate reference realizations.

313, TITLE: Exploring Diverse Expressions for Paraphrase Generation
https://www.aclweb.org/anthology/D19-1313
AUTHORS: Lihua Qian, Lin Qiu, Weinan Zhang, Xin Jiang, Yong Yu
HIGHLIGHT: In this paper, we propose a novel approach with two discriminators and multiple generators to generate a variety of different paraphrases.

314, TITLE: Enhancing AMR-to-Text Generation with Dual Graph Representations
https://www.aclweb.org/anthology/D19-1314
AUTHORS: Leonardo F. R. Ribeiro, Claire Gardent, Iryna Gurevych
HIGHLIGHT: To address this difficulty, we propose a novel graph-to-sequence model that encodes different but complementary perspectives of the structural information contained in the AMR graph.

315, TITLE: Keeping Consistency of Sentence Generation and Document Classification with Multi-Task Learning
https://www.aclweb.org/anthology/D19-1315
AUTHORS: Toru Nishino, Shotaro Misawa, Ryuji Kano, Tomoki Taniguchi, Yasuhide Miura, Tomoko Ohkuma
HIGHLIGHT: The purpose of our study is to generate multiple outputs consistently.

316, TITLE: Toward a Task of Feedback Comment Generation for Writing Learning
https://www.aclweb.org/anthology/D19-1316
AUTHORS: Ryo Nagata
HIGHLIGHT: In this paper, we introduce a novel task called feedback comment generation --- a task of automatically generating feedback comments such as a hint or an explanatory note for writing learning for non-native learners of English.

317, TITLE: Improving Question Generation With to the Point Context
https://www.aclweb.org/anthology/D19-1317
AUTHORS: Jingjing Li, Yifan Gao, Lidong Bing, Irwin King, Michael R. Lyu
HIGHLIGHT: To address this issue, we propose a method to jointly model the unstructured sentence and the structured answer-relevant relation (extracted from the sentence in advance) for question generation.

318, TITLE: Deep Copycat Networks for Text-to-Text Generation
https://www.aclweb.org/anthology/D19-1318
AUTHORS: Julia Ive, Pranava Madhyastha, Lucia Specia
HIGHLIGHT: We introduce Copycat, a transformer-based pointer network for such tasks which obtains competitive results in abstractive text summarisation and generates more abstractive summaries.

319, TITLE: Towards Controllable and Personalized Review Generation
https://www.aclweb.org/anthology/D19-1319
AUTHORS: Pan Li, Alexander Tuzhilin
HIGHLIGHT: In this paper, we propose a novel model RevGAN that automatically generates controllable and personalized user reviews based on the arbitrarily given sentimental and stylistic information.

320, TITLE: Answers Unite! Unsupervised Metrics for Reinforced Summarization Models
https://www.aclweb.org/anthology/D19-1320
AUTHORS: Thomas Scialom, Sylvain Lamprier, Benjamin Piwowarski, Jacopo Staiano
HIGHLIGHT: We thus explore and propose alternative evaluation measures: the reported human-evaluation analysis shows that the proposed metrics, based on Question Answering, favorably compare to ROUGE -- with the additional property of not requiring reference summaries.

321, TITLE: Long and Diverse Text Generation with Planning-based Hierarchical Variational Model
https://www.aclweb.org/anthology/D19-1321
AUTHORS: Zhihong Shao, Minlie Huang, Jiangtao Wen, Wenfei Xu, xiaoyan zhu
HIGHLIGHT: To address these issues, we propose a Planning-based Hierarchical Variational Model (PHVM).

322, TITLE: ``Transforming'' Delete, Retrieve, Generate Approach for Controlled Text Style Transfer
https://www.aclweb.org/anthology/D19-1322
AUTHORS: Akhilesh Sudhakar, Bhargav Upadhyay, Arjun Maheswaran
HIGHLIGHT: In this work we introduce the Generative Style Transformer (GST) - a new approach to rewriting sentences to a target style in the absence of parallel style corpora.

323, TITLE: An Entity-Driven Framework for Abstractive Summarization
https://www.aclweb.org/anthology/D19-1323
AUTHORS: Eva Sharma, Luyang Huang, Zhe Hu, Lu Wang
HIGHLIGHT: In this paper, we introduce SENECA, a novel System for ENtity-drivEn Coherent Abstractive summarization framework that leverages entity information to generate informative and coherent abstracts.

324, TITLE: Neural Extractive Text Summarization with Syntactic Compression
https://www.aclweb.org/anthology/D19-1324
AUTHORS: Jiacheng Xu, Greg Durrett
HIGHLIGHT: In this work, we present a neural model for single-document summarization based on joint extraction and syntactic compression.

325, TITLE: Domain Adaptive Text Style Transfer
https://www.aclweb.org/anthology/D19-1325
AUTHORS: Dianqi Li, Yizhe Zhang, Zhe Gan, Yu Cheng, Chris Brockett, Bill Dolan, Ming-Ting Sun
HIGHLIGHT: In this paper, we examine domain adaptation for text style transfer to leverage massively available data from other domains.

326, TITLE: Let's Ask Again: Refine Network for Automatic Question Generation
https://www.aclweb.org/anthology/D19-1326
AUTHORS: Preksha Nema, Akash Kumar Mohankumar, Mitesh M. Khapra, Balaji Vasan Srinivasan, Balaraman Ravindran
HIGHLIGHT: In this work, we focus on the task of Automatic Question Generation (AQG) where given a passage and an answer the task is to generate the corresponding question.

327, TITLE: Earlier Isn't Always Better: Sub-aspect Analysis on Corpus and System Biases in Summarization
https://www.aclweb.org/anthology/D19-1327
AUTHORS: Taehee Jung, Dongyeop Kang, Lucas Mentch, Eduard Hovy
HIGHLIGHT: Following in the spirit of the claim that summarization is a combination of sub-functions, we define three sub-aspects of summarization: position, importance, and diversity and conduct an extensive analysis of the biases of each sub-aspect with respect to the domain of nine different summarization corpora (e.g., news, academic papers, meeting minutes, movie script, books, posts).

328, TITLE: Lost in Evaluation: Misleading Benchmarks for Bilingual Dictionary Induction
https://www.aclweb.org/anthology/D19-1328
AUTHORS: Yova Kementchedjhieva, Mareike Hartmann, Anders Søgaard
HIGHLIGHT: We study the composition and quality of the test sets for five diverse languages from this dataset, with concerning findings: (1) a quarter of the data consists of proper nouns, which can be hardly indicative of BDI performance, and (2) there are pervasive gaps in the gold-standard targets.

329, TITLE: Towards Realistic Practices In Low-Resource Natural Language Processing: The Development Set
https://www.aclweb.org/anthology/D19-1329
AUTHORS: Katharina Kann, Kyunghyun Cho, Samuel R. Bowman
HIGHLIGHT: Here, we aim to answer the following questions: Does using a development set for early stopping in the low-resource setting influence results as compared to a more realistic alternative, where the number of training epochs is tuned on development languages? And does it lead to overestimation or underestimation of performance?

330, TITLE: Synchronously Generating Two Languages with Interactive Decoding
https://www.aclweb.org/anthology/D19-1330
AUTHORS: Yining Wang, Jiajun Zhang, Long Zhou, Yuchen Liu, Chengqing Zong
HIGHLIGHT: In this paper, we introduce a novel interactive approach to translate a source language into two different languages simultaneously and interactively.

331, TITLE: On NMT Search Errors and Model Errors: Cat Got Your Tongue?
https://www.aclweb.org/anthology/D19-1331

AUTHORS: Felix Stahlberg, Bill Byrne
HIGHLIGHT: We present an exact inference procedure for neural sequence models based on a combination of beam search and depth-first search.

332, TITLE: ``Going on a vacation" takes longer than ``Going for a walk": A Study of Temporal Commonsense Understanding
https://www.aclweb.org/anthology/D19-1332
AUTHORS: Ben Zhou, Daniel Khashabi, Qiang Ning, Dan Roth
HIGHLIGHT: This paper systematically studies this temporal commonsense problem.

333, TITLE: QAInfomax: Learning Robust Question Answering System by Mutual Information Maximization
https://www.aclweb.org/anthology/D19-1333
AUTHORS: Yi-Ting Yeh, Yun-Nung Chen
HIGHLIGHT: To address this problem, we propose QAInfomax as a regularizer in reading comprehension systems by maximizing mutual information among passages, a question, and its answer.

334, TITLE: Adapting Meta Knowledge Graph Information for Multi-Hop Reasoning over Few-Shot Relations
https://www.aclweb.org/anthology/D19-1334
AUTHORS: Xin Lv, Yuxian Gu, Xu Han, Lei Hou, Juanzi Li, Zhiyuan Liu
HIGHLIGHT: In this paper, we propose a meta-based multi-hop reasoning method (Meta-KGR), which adopts meta-learning to learn effective meta parameters from high-frequency relations that could quickly adapt to few-shot relations.

335, TITLE: How Reasonable are Common-Sense Reasoning Tasks: A Case-Study on the Winograd Schema Challenge and SWAG
https://www.aclweb.org/anthology/D19-1335
AUTHORS: Paul Trichelair, Ali Emami, Adam Trischler, Kaheer Suleman, Jackie Chi Kit Cheung
HIGHLIGHT: The question we ask in this paper is whether improved performance on these benchmarks represents genuine progress towards common-sense-enabled systems.

336, TITLE: Pun-GAN: Generative Adversarial Network for Pun Generation
https://www.aclweb.org/anthology/D19-1336
AUTHORS: Fuli Luo, Shunyao Li, Pengcheng Yang, Lei Li, Baobao Chang, Zhifang Sui, Xu SUN
HIGHLIGHT: In this paper, we focus on the task of generating a pun sentence given a pair of word senses.

337, TITLE: Multi-Task Learning with Language Modeling for Question Generation
https://www.aclweb.org/anthology/D19-1337
AUTHORS: Wenjie Zhou, Minghua Zhang, Yunfang Wu
HIGHLIGHT: Based on the attention-based pointer generator model, we propose to incorporate an auxiliary task of language modeling to help question generation in a hierarchical multi-task learning structure.

338, TITLE: Autoregressive Text Generation Beyond Feedback Loops
https://www.aclweb.org/anthology/D19-1338
AUTHORS: Florian Schmidt, Stephan Mandt, Thomas Hofmann
HIGHLIGHT: In this paper, we combine a latent state space model with a CRF observation model.

339, TITLE: The Woman Worked as a Babysitter: On Biases in Language Generation
https://www.aclweb.org/anthology/D19-1339
AUTHORS: Emily Sheng, Kai-Wei Chang, Premkumar Natarajan, Nanyun Peng
HIGHLIGHT: We present a systematic study of biases in natural language generation (NLG) by analyzing text generated from prompts that contain mentions of different demographic groups.

340, TITLE: On the Importance of Delexicalization for Fact Verification
https://www.aclweb.org/anthology/D19-1340
AUTHORS: Sandeep Suntwal, Mithun Paul, Rebecca Sharp, Mihai Surdeanu
HIGHLIGHT: Here, we investigate the importance that a model assigns to various aspects of data while learning and making predictions, specifically, in a recognizing textual entailment (RTE) task.

341, TITLE: Towards Debiasing Fact Verification Models
https://www.aclweb.org/anthology/D19-1341
AUTHORS: Tal Schuster, Darsh Shah, Yun Jie Serene Yeo, Daniel Roberto Filizzola Ortiz, Enrico Santus, Regina Barzilay

HIGHLIGHT: In this paper, we investigate the cause of this phenomenon, identifying strong cues for predicting labels solely based on the claim, without considering any evidence.

342, TITLE: Recognizing Conflict Opinions in Aspect-level Sentiment Classification with Dual Attention Networks
https://www.aclweb.org/anthology/D19-1342
AUTHORS: Xingwei Tan, Yi Cai, Changxi Zhu
HIGHLIGHT: In this paper, we propose a multi-label classification model with dual attention mechanism to address these problems.

343, TITLE: Investigating Dynamic Routing in Tree-Structured LSTM for Sentiment Analysis
https://www.aclweb.org/anthology/D19-1343
AUTHORS: Jin Wang, Liang-Chih Yu, K. Robert Lai, Xuejie Zhang
HIGHLIGHT: To overcome the bias problem, this study proposes a capsule tree-LSTM model, introducing a dynamic routing algorithm as an aggregation layer to build sentence representation by assigning different weights to nodes according to their contributions to prediction.

344, TITLE: A Label Informative Wide textbackslash& Deep Classifier for Patents and Papers
https://www.aclweb.org/anthology/D19-1344
AUTHORS: Muyao Niu, Jie Cai
HIGHLIGHT: In this paper, we provide a simple and effective baseline for classifying both patents and papers to the well-established Cooperative Patent Classification (CPC).

345, TITLE: Text Level Graph Neural Network for Text Classification
https://www.aclweb.org/anthology/D19-1345
AUTHORS: Lianzhe Huang, Dehong Ma, Sujian Li, Xiaodong Zhang, Houfeng WANG
HIGHLIGHT: To tackle the problems, we propose a new GNN based model that builds graphs for each input text with global parameters sharing instead of a single graph for the whole corpus.

346, TITLE: Semantic Relatedness Based Re-ranker for Text Spotting
https://www.aclweb.org/anthology/D19-1346
AUTHORS: Ahmed Sabir, Francesc Moreno, Lluís Padró
HIGHLIGHT: Our goal is to improve the performance of vision systems by leveraging semantic information.

347, TITLE: Delta-training: Simple Semi-Supervised Text Classification using Pretrained Word Embeddings
https://www.aclweb.org/anthology/D19-1347
AUTHORS: Hwiyeol Jo, Ceyda Cinarel
HIGHLIGHT: We propose a novel and simple method for semi-supervised text classification.

348, TITLE: Visual Detection with Context for Document Layout Analysis
https://www.aclweb.org/anthology/D19-1348
AUTHORS: Carlos Soto, Shinjae Yoo
HIGHLIGHT: We present 1) a work in progress method to visually segment key regions of scientific articles using an object detection technique augmented with contextual features, and 2) a novel dataset of region-labeled articles.

349, TITLE: Evaluating Topic Quality with Posterior Variability
https://www.aclweb.org/anthology/D19-1349
AUTHORS: Linzi Xing, Michael J. Paul, Giuseppe Carenini
HIGHLIGHT: We derive a novel measure of LDA topic quality using the variability of the posterior distributions.

350, TITLE: Neural Topic Model with Reinforcement Learning
https://www.aclweb.org/anthology/D19-1350
AUTHORS: Lin Gui, Jia Leng, Gabriele Pergola, yu zhou, Ruifeng Xu, Yulan He
HIGHLIGHT: In this paper, we borrow the idea of reinforcement learning and incorporate topic coherence measures as reward signals to guide the learning of a VAE-based topic model.

351, TITLE: Modelling Stopping Criteria for Search Results using Poisson Processes
https://www.aclweb.org/anthology/D19-1351
AUTHORS: Alison Sneyd, Mark Stevenson
HIGHLIGHT: In this work, a novel method for determining a stopping criterion is proposed that models the rate at which relevant documents occur using a Poisson process.

352, TITLE: Cross-Domain Modeling of Sentence-Level Evidence for Document Retrieval
https://www.aclweb.org/anthology/D19-1352
AUTHORS: Zeynep Akkalyoncu Yilmaz, Wei Yang, Haotian Zhang, Jimmy Lin
HIGHLIGHT: This paper applies BERT to ad hoc document retrieval on news articles, which requires addressing two challenges: relevance judgments in existing test collections are typically provided only at the document level, and documents often exceed the length that BERT was designed to handle.

353, TITLE: The Challenges of Optimizing Machine Translation for Low Resource Cross-Language Information Retrieval
https://www.aclweb.org/anthology/D19-1353
AUTHORS: Constantine Lignos, Daniel Cohen, Yen-Chieh Lien, Pratik Mehta, W. Bruce Croft, Scott Miller
HIGHLIGHT: In this paper, we examine the relationship between the performance of MT systems and both neural and term frequency-based IR models to identify how CLIR performance can be best predicted from MT quality.

354, TITLE: Rotate King to get Queen: Word Relationships as Orthogonal Transformations in Embedding Space
https://www.aclweb.org/anthology/D19-1354
AUTHORS: Kawin Ethayarajh
HIGHLIGHT: We document an alternative way in which downstream models might learn these relationships: orthogonal and linear transformations.

355, TITLE: GlossBERT: BERT for Word Sense Disambiguation with Gloss Knowledge
https://www.aclweb.org/anthology/D19-1355
AUTHORS: Luyao Huang, Chi Sun, Xipeng Qiu, Xuanjing Huang
HIGHLIGHT: In this paper, we focus on how to better leverage gloss knowledge in a supervised neural WSD system.

356, TITLE: Leveraging Adjective-Noun Phrasing Knowledge for Comparison Relation Prediction in Text-to-SQL
https://www.aclweb.org/anthology/D19-1356
AUTHORS: Haoyan Liu, Lei Fang, Qian Liu, Bei Chen, Jian-Guang LOU, Zhoujun Li
HIGHLIGHT: In this paper, we propose to leverage adjective-noun phrasing knowledge mined from the web to predict the comparison relations in text-to-SQL.

357, TITLE: Bridging the Defined and the Defining: Exploiting Implicit Lexical Semantic Relations in Definition Modeling
https://www.aclweb.org/anthology/D19-1357
AUTHORS: Koki Washio, Satoshi Sekine, Tsuneaki Kato
HIGHLIGHT: In this paper, we propose definition modeling methods that use lexical semantic relations.

358, TITLE: Don't Just Scratch the Surface: Enhancing Word Representations for Korean with Hanja
https://www.aclweb.org/anthology/D19-1358
AUTHORS: Kang Min Yoo, Taeuk Kim, Sang-goo Lee
HIGHLIGHT: We propose a simple yet effective approach for improving Korean word representations using additional linguistic annotation (i.e. Hanja).

359, TITLE: SyntagNet: Challenging Supervised Word Sense Disambiguation with Lexical-Semantic Combinations
https://www.aclweb.org/anthology/D19-1359
AUTHORS: Marco Maru, Federico Scozzafava, Federico Martelli, Roberto Navigli
HIGHLIGHT: This paper introduces SyntagNet, a novel resource consisting of manually disambiguated lexical-semantic combinations.

360, TITLE: Hierarchical Meta-Embeddings for Code-Switching Named Entity Recognition
https://www.aclweb.org/anthology/D19-1360
AUTHORS: Genta Indra Winata, Zhaojiang Lin, Jamin Shin, Zihan Liu, Pascale Fung
HIGHLIGHT: Therefore, we propose Hierarchical Meta-Embeddings (HME) that learn to combine multiple monolingual word-level and subword-level embeddings to create language-agnostic lexical representations.

361, TITLE: Fine-tune BERT with Sparse Self-Attention Mechanism
https://www.aclweb.org/anthology/D19-1361
AUTHORS: Baiyun Cui, Yingming Li, Ming Chen, Zhongfei Zhang
HIGHLIGHT: In this paper, we develop a novel Sparse Self-Attention Fine-tuning model (referred as SSAF) which integrates sparsity into self-attention mechanism to enhance the fine-tuning performance of BERT.

362, TITLE: Feature-Dependent Confusion Matrices for Low-Resource NER Labeling with Noisy Labels
https://www.aclweb.org/anthology/D19-1362
AUTHORS: Lukas Lange, Michael A. Hedderich, Dietrich Klakow
HIGHLIGHT: We propose to cluster the training data using the input features and then compute different confusion matrices for each cluster.

363, TITLE: A Multi-Pairwise Extension of Procrustes Analysis for Multilingual Word Translation
https://www.aclweb.org/anthology/D19-1363
AUTHORS: Hagai Taitelbaum, Gal Chechik, Jacob Goldberger
HIGHLIGHT: In this paper we present a novel approach to simultaneously representing multiple languages in a common space.

364, TITLE: Out-of-Domain Detection for Low-Resource Text Classification Tasks
https://www.aclweb.org/anthology/D19-1364
AUTHORS: Ming Tan, Yang Yu, Haoyu Wang, Dakuo Wang, Saloni Potdar, Shiyu Chang, Mo Yu
HIGHLIGHT: In this work, we propose an {\textbackslash}emph{OOD-resistant Prototypical Network} to tackle this zero-shot OOD detection and few-shot ID classification task.

365, TITLE: Harnessing Pre-Trained Neural Networks with Rules for Formality Style Transfer
https://www.aclweb.org/anthology/D19-1365
AUTHORS: Yunli Wang, Yu Wu, Lili Mou, Zhoujun Li, Wenhan Chao
HIGHLIGHT: We propose three fine-tuning methods in this paper and achieve a new state-of-the-art on benchmark datasets

366, TITLE: Multiple Text Style Transfer by using Word-level Conditional Generative Adversarial Network with Two-Phase Training
https://www.aclweb.org/anthology/D19-1366
AUTHORS: Chih-Te Lai, Yi-Te Hong, Hong-You Chen, Chi-Jen Lu, Shou-De Lin
HIGHLIGHT: In this paper, we propose a new GAN model with a word-level conditional architecture and a two-phase training procedure.

367, TITLE: Improved Differentiable Architecture Search for Language Modeling and Named Entity Recognition
https://www.aclweb.org/anthology/D19-1367
AUTHORS: Yufan Jiang, Chi Hu, Tong Xiao, Chunliang Zhang, Jingbo Zhu
HIGHLIGHT: In this paper, we study differentiable neural architecture search (NAS) methods for natural language processing.

368, TITLE: Using Pairwise Occurrence Information to Improve Knowledge Graph Completion on Large-Scale Datasets
https://www.aclweb.org/anthology/D19-1368
AUTHORS: Esma Balkir, Masha Naslidnyk, Dave Palfrey, Arpit Mittal
HIGHLIGHT: In this paper we use occurrences of entity-relation pairs in the dataset to construct a joint learning model and to increase the quality of sampled negatives during training.

369, TITLE: Single Training Dimension Selection for Word Embedding with PCA
https://www.aclweb.org/anthology/D19-1369
AUTHORS: Yu Wang
HIGHLIGHT: In this paper, we present a fast and reliable method based on PCA to select the number of dimensions for word embeddings.

370, TITLE: A Surprisingly Effective Fix for Deep Latent Variable Modeling of Text
https://www.aclweb.org/anthology/D19-1370
AUTHORS: Bohan Li, Junxian He, Graham Neubig, Taylor Berg-Kirkpatrick, Yiming Yang
HIGHLIGHT: In this paper, we investigate a simple fix for posterior collapse which yields surprisingly effective results.

371, TITLE: SciBERT: A Pretrained Language Model for Scientific Text
https://www.aclweb.org/anthology/D19-1371
AUTHORS: Iz Beltagy, Kyle Lo, Arman Cohan
HIGHLIGHT: We release SciBERT, a pretrained language model based on BERT (Devlin et. al., 2018) to address the lack of high-quality, large-scale labeled scientific data.

372, TITLE: Humor Detection: A Transformer Gets the Last Laugh

https://www.aclweb.org/anthology/D19-1372
AUTHORS: Orion Weller, Kevin Seppi
HIGHLIGHT: In this paper we extend that capability by proposing a new task: assessing whether or not a joke is humorous.

373, TITLE: Combining Global Sparse Gradients with Local Gradients in Distributed Neural Network Training
https://www.aclweb.org/anthology/D19-1373
AUTHORS: Alham Fikri Aji, Kenneth Heafield, Nikolay Bogoychev
HIGHLIGHT: We restore gradient quality by combining the compressed global gradient with the node's locally computed uncompressed gradient.

374, TITLE: Small and Practical BERT Models for Sequence Labeling
https://www.aclweb.org/anthology/D19-1374
AUTHORS: Henry Tsai, Jason Riesa, Melvin Johnson, Naveen Arivazhagan, Xin Li, Amelia Archer
HIGHLIGHT: We propose a practical scheme to train a single multilingual sequence labeling model that yields state of the art results and is small and fast enough to run on a single CPU.

375, TITLE: Data Augmentation with Atomic Templates for Spoken Language Understanding
https://www.aclweb.org/anthology/D19-1375
AUTHORS: Zijian Zhao, Su Zhu, Kai Yu
HIGHLIGHT: In this work, we propose a data augmentation method with atomic templates for SLU, which involves minimum human efforts.

376, TITLE: PaLM: A Hybrid Parser and Language Model
https://www.aclweb.org/anthology/D19-1376
AUTHORS: Hao Peng, Roy Schwartz, Noah A. Smith
HIGHLIGHT: We present PaLM, a hybrid parser and neural language model.

377, TITLE: A Pilot Study for Chinese SQL Semantic Parsing
https://www.aclweb.org/anthology/D19-1377
AUTHORS: Qingkai Min, Yuefeng Shi, Yue Zhang
HIGHLIGHT: We compare character- and word-based encoders for a semantic parser, and different embedding schemes.

378, TITLE: Global Reasoning over Database Structures for Text-to-SQL Parsing
https://www.aclweb.org/anthology/D19-1378
AUTHORS: Ben Bogin, Matt Gardner, Jonathan Berant
HIGHLIGHT: In this work, we propose a semantic parser that globally reasons about the structure of the output query to make a more contextually-informed selection of database constants.

379, TITLE: Transductive Learning of Neural Language Models for Syntactic and Semantic Analysis
https://www.aclweb.org/anthology/D19-1379
AUTHORS: Hiroki Ouchi, Jun Suzuki, Kentaro Inui
HIGHLIGHT: Here we conduct an empirical study of transductive learning for neural models and demonstrate its utility in syntactic and semantic tasks.

380, TITLE: Efficient Sentence Embedding using Discrete Cosine Transform
https://www.aclweb.org/anthology/D19-1380
AUTHORS: Nada Almarwani, Hanan Aldarmaki, Mona Diab
HIGHLIGHT: As an efficient alternative, we propose the use of discrete cosine transform (DCT) to compress word sequences in an order-preserving manner.

381, TITLE: A Search-based Neural Model for Biomedical Nested and Overlapping Event Detection
https://www.aclweb.org/anthology/D19-1381
AUTHORS: Kurt Junshean Espinosa, Makoto Miwa, Sophia Ananiadou
HIGHLIGHT: We tackle the nested and overlapping event detection task and propose a novel search-based neural network (SBNN) structured prediction model that treats the task as a search problem on a relation graph of trigger-argument structures.

382, TITLE: PAWS-X: A Cross-lingual Adversarial Dataset for Paraphrase Identification
https://www.aclweb.org/anthology/D19-1382
AUTHORS: Yinfei Yang, Yuan Zhang, Chris Tar, Jason Baldridge

HIGHLIGHT: We remedy this gap with PAWS-X, a new dataset of 23,659 human translated PAWS evaluation pairs in six typologically distinct languages: French, Spanish, German, Chinese, Japanese, and Korean.

383, TITLE: Pretrained Language Models for Sequential Sentence Classification
https://www.aclweb.org/anthology/D19-1383
AUTHORS: Arman Cohan, Iz Beltagy, Daniel King, Bhavana Dalvi, Dan Weld
HIGHLIGHT: In this work, we show that pretrained language models, BERT (Devlin et al., 2018) in particular, can be used for this task to capture contextual dependencies without the need for hierarchical encoding nor a CRF.

384, TITLE: Emergent Linguistic Phenomena in Multi-Agent Communication Games
https://www.aclweb.org/anthology/D19-1384
AUTHORS: Laura Harding Graesser, Kyunghyun Cho, Douwe Kiela
HIGHLIGHT: We describe a multi-agent communication framework for examining high-level linguistic phenomena at the community-level.

385, TITLE: TalkDown: A Corpus for Condescension Detection in Context
https://www.aclweb.org/anthology/D19-1385
AUTHORS: Zijian Wang, Christopher Potts
HIGHLIGHT: To address this, we present TalkDown, a new labeled dataset of condescending linguistic acts in context.

386, TITLE: Summary Cloze: A New Task for Content Selection in Topic-Focused Summarization
https://www.aclweb.org/anthology/D19-1386
AUTHORS: Daniel Deutsch, Dan Roth
HIGHLIGHT: In this work, we propose a new method for studying content selection in topic-focused summarization called the summary cloze task.

387, TITLE: Text Summarization with Pretrained Encoders
https://www.aclweb.org/anthology/D19-1387
AUTHORS: Yang Liu, Mirella Lapata
HIGHLIGHT: In this paper, we showcase how BERT can be usefully applied in text summarization and propose a general framework for both extractive and abstractive models.

388, TITLE: How to Write Summaries with Patterns? Learning towards Abstractive Summarization through Prototype Editing
https://www.aclweb.org/anthology/D19-1388
AUTHORS: Shen Gao, Xiuying Chen, Piji Li, Zhangming Chan, Dongyan Zhao, Rui Yan
HIGHLIGHT: To tackle these challenges, we design a model named Prototype Editing based Summary Generator (PESG).

389, TITLE: BottleSum: Unsupervised and Self-supervised Sentence Summarization using the Information Bottleneck Principle
https://www.aclweb.org/anthology/D19-1389
AUTHORS: Peter West, Ari Holtzman, Jan Buys, Yejin Choi
HIGHLIGHT: In this paper, we propose a novel approach to unsupervised sentence summarization by mapping the Information Bottleneck principle to a conditional language modelling objective: given a sentence, our approach seeks a compressed sentence that can best predict the next sentence.

390, TITLE: Improving Latent Alignment in Text Summarization by Generalizing the Pointer Generator
https://www.aclweb.org/anthology/D19-1390
AUTHORS: Xiaoyu Shen, Yang Zhao, Hui Su, Dietrich Klakow
HIGHLIGHT: In this paper, we address these problems by allowing the model to "edit" pointed tokens instead of always hard copying them.

391, TITLE: Learning Semantic Parsers from Denotations with Latent Structured Alignments and Abstract Programs
https://www.aclweb.org/anthology/D19-1391
AUTHORS: Bailin Wang, Ivan Titov, Mirella Lapata
HIGHLIGHT: Our goal is to instill an inductive bias in the parser to help it distinguish between spurious and correct programs.

392, TITLE: Broad-Coverage Semantic Parsing as Transduction
https://www.aclweb.org/anthology/D19-1392
AUTHORS: Sheng Zhang, Xutai Ma, Kevin Duh, Benjamin Van Durme

HIGHLIGHT: We unify different broad-coverage semantic parsing tasks into a transduction parsing paradigm, and propose an attention-based neural transducer that incrementally builds meaning representation via a sequence of semantic relations.

393, TITLE: Core Semantic First: A Top-down Approach for AMR Parsing
https://www.aclweb.org/anthology/D19-1393
AUTHORS: Deng Cai, Wai Lam
HIGHLIGHT: We introduce a novel scheme for parsing a piece of text into its Abstract Meaning Representation (AMR): Graph Spanning based Parsing (GSP).

394, TITLE: Don't paraphrase, detect! Rapid and Effective Data Collection for Semantic Parsing
https://www.aclweb.org/anthology/D19-1394
AUTHORS: Jonathan Herzig, Jonathan Berant
HIGHLIGHT: In this paper, we thoroughly analyze two sources of mismatch in this process: the mismatch in logical form distribution and the mismatch in language distribution between the true and induced distributions. We quantify the effects of these mismatches, and propose a new data collection approach that mitigates them.

395, TITLE: Improving Distantly-Supervised Relation Extraction with Joint Label Embedding
https://www.aclweb.org/anthology/D19-1395
AUTHORS: Linmei Hu, Luhao Zhang, Chuan Shi, Liqiang Nie, Weili Guan, Cheng Yang
HIGHLIGHT: In this paper, we propose a novel multi-layer attention-based model to improve relation extraction with joint label embedding.

396, TITLE: Leverage Lexical Knowledge for Chinese Named Entity Recognition via Collaborative Graph Network
https://www.aclweb.org/anthology/D19-1396
AUTHORS: Dianbo Sui, Yubo Chen, Kang Liu, Jun Zhao, Shengping Liu
HIGHLIGHT: We present a Collaborative Graph Network to solve these challenges.

397, TITLE: Looking Beyond Label Noise: Shifted Label Distribution Matters in Distantly Supervised Relation Extraction
https://www.aclweb.org/anthology/D19-1397
AUTHORS: Qinyuan Ye, Liyuan Liu, Maosen Zhang, Xiang Ren
HIGHLIGHT: In this paper, we study the problem what limits the performance of DS-trained neural models, conduct thorough analyses, and identify a factor that can influence the performance greatly, shifted label distribution.

398, TITLE: Easy First Relation Extraction with Information Redundancy
https://www.aclweb.org/anthology/D19-1398
AUTHORS: Shuai Ma, Gang Wang, Yansong Feng, Jinpeng Huai
HIGHLIGHT: In this paper, we propose an easy first approach for relation extraction with information redundancies, embedded in the results produced by local sentence level extractors, during which conflict decisions are resolved with domain and uniqueness constraints.

399, TITLE: Dependency-Guided LSTM-CRF for Named Entity Recognition
https://www.aclweb.org/anthology/D19-1399
AUTHORS: Zhanming Jie, Wei Lu
HIGHLIGHT: In this work, we propose a simple yet effective dependency-guided LSTM-CRF model to encode the complete dependency trees and capture the above properties for the task of named entity recognition (NER).

400, TITLE: Cross-Cultural Transfer Learning for Text Classification
https://www.aclweb.org/anthology/D19-1400
AUTHORS: Dor Ringel, Gal Lavee, Ido Guy, Kira Radinsky
HIGHLIGHT: In this work, we show that cross-cultural differences can be harnessed for natural language text classification.

401, TITLE: Combining Unsupervised Pre-training and Annotator Rationales to Improve Low-shot Text Classification
https://www.aclweb.org/anthology/D19-1401
AUTHORS: Oren Melamud, Mihaela Bornea, Ken Barker
HIGHLIGHT: In this work, we combine these two approaches to improve low-shot text classification with two novel methods: a simple bag-of-words embedding approach; and a more complex context-aware method, based on the BERT model.

402, TITLE: ProSeqo: Projection Sequence Networks for On-Device Text Classification
https://www.aclweb.org/anthology/D19-1402
AUTHORS: Zornitsa Kozareva, Sujith Ravi

HIGHLIGHT: We propose a novel on-device sequence model for text classification using recurrent projections.

403, TITLE: Induction Networks for Few-Shot Text Classification
https://www.aclweb.org/anthology/D19-1403
AUTHORS: Ruiying Geng, Binhua Li, Yongbin Li, Xiaodan Zhu, Ping Jian, Jian Sun
HIGHLIGHT: In this paper, we propose a novel Induction Network to learn such a generalized class-wise representation, by innovatively leveraging the dynamic routing algorithm in meta-learning.

404, TITLE: Benchmarking Zero-shot Text Classification: Datasets, Evaluation and Entailment Approach
https://www.aclweb.org/anthology/D19-1404
AUTHORS: Wenpeng Yin, Jamaal Hay, Dan Roth
HIGHLIGHT: Our contributions include: i) The datasets we provide facilitate studying 0Shot-TC relative to conceptually different and diverse aspects: the "topic" aspect includes "sports" and "politics" as labels; the "emotion" aspect includes "joy" and "anger"; the "situation" aspect includes "medical assistance" and "water shortage".

405, TITLE: A Logic-Driven Framework for Consistency of Neural Models
https://www.aclweb.org/anthology/D19-1405
AUTHORS: Tao Li, Vivek Gupta, Maitrey Mehta, Vivek Srikumar
HIGHLIGHT: In this paper, we formalize such inconsistency as a generalization of prediction error.

406, TITLE: Style Transfer for Texts: Retrain, Report Errors, Compare with Rewrites
https://www.aclweb.org/anthology/D19-1406
AUTHORS: Alexey Tikhonov, Viacheslav Shibaev, Aleksander Nagaev, Aigul Nugmanova, Ivan P. Yamshchikov
HIGHLIGHT: This paper shows that standard assessment methodology for style transfer has several significant problems.

407, TITLE: Implicit Deep Latent Variable Models for Text Generation
https://www.aclweb.org/anthology/D19-1407
AUTHORS: Le Fang, Chunyuan Li, Jianfeng Gao, Wen Dong, Changyou Chen
HIGHLIGHT: In this paper, we advocate sample-based representations of variational distributions for natural language, leading to implicit latent features, which can provide flexible representation power compared with Gaussian-based posteriors.

408, TITLE: Text Emotion Distribution Learning from Small Sample: A Meta-Learning Approach
https://www.aclweb.org/anthology/D19-1408
AUTHORS: Zhenjie Zhao, Xiaojuan Ma
HIGHLIGHT: In this paper, we propose a meta-learning approach to learn text emotion distributions from a small sample.

409, TITLE: Judge the Judges: A Large-Scale Evaluation Study of Neural Language Models for Online Review Generation
https://www.aclweb.org/anthology/D19-1409
AUTHORS: Cristina Garbacea, Samuel Carton, Shiyan Yan, Qiaozhu Mei
HIGHLIGHT: We conduct a large-scale, systematic study to evaluate the existing evaluation methods for natural language generation in the context of generating online product reviews.

410, TITLE: Sentence-BERT: Sentence Embeddings using Siamese BERT-Networks
https://www.aclweb.org/anthology/D19-1410
AUTHORS: Nils Reimers, Iryna Gurevych
HIGHLIGHT: In this publication, we present Sentence-BERT (SBERT), a modification of the pretrained BERT network that use siamese and triplet network structures to derive semantically meaningful sentence embeddings that can be compared using cosine-similarity.

411, TITLE: Learning Only from Relevant Keywords and Unlabeled Documents
https://www.aclweb.org/anthology/D19-1411
AUTHORS: Nontawat Charoenphakdee, Jongyeong Lee, Yiping Jin, Dittaya Wanvarie, Masashi Sugiyama
HIGHLIGHT: In this paper, we propose a theoretically guaranteed learning framework that is simple to implement and has flexible choices of models, e.g., linear models or neural networks.

412, TITLE: Denoising based Sequence-to-Sequence Pre-training for Text Generation
https://www.aclweb.org/anthology/D19-1412
AUTHORS: Liang Wang, Wei Zhao, Ruoyu Jia, Sujian Li, Jingming Liu
HIGHLIGHT: This paper presents a new sequence-to-sequence (seq2seq) pre-training method PoDA (Pre-training of Denoising Autoencoders), which learns representations suitable for text generation tasks.

413, TITLE: Dialog Intent Induction with Deep Multi-View Clustering
https://www.aclweb.org/anthology/D19-1413
AUTHORS: Hugh Perkins, Yi Yang
HIGHLIGHT: We introduce the dialog intent induction task and present a novel deep multi-view clustering approach to tackle the problem.

414, TITLE: Nearly-Unsupervised Hashcode Representations for Biomedical Relation Extraction
https://www.aclweb.org/anthology/D19-1414
AUTHORS: Sahil Garg, Aram Galstyan, Greg Ver Steeg, Guillermo Cecchi
HIGHLIGHT: In this paper, we propose to optimize the hashcode representations in a nearly unsupervised manner, in which we only use data points, but not their class labels, for learning.

415, TITLE: Auditing Deep Learning processes through Kernel-based Explanatory Models
https://www.aclweb.org/anthology/D19-1415
AUTHORS: Danilo Croce, Daniele Rossini, Roberto Basili
HIGHLIGHT: In this paper, we discuss the application of Layerwise Relevance Propagation over a linguistically motivated neural architecture, the Kernel-based Deep Architecture, in order to trace back connections between linguistic properties of input instances and system decisions.

416, TITLE: Enhancing Variational Autoencoders with Mutual Information Neural Estimation for Text Generation
https://www.aclweb.org/anthology/D19-1416
AUTHORS: Dong Qian, William K. Cheung
HIGHLIGHT: In this paper, we propose to introduce a mutual information (MI) term between the input and its latent variable to regularize the objective of the VAE.

417, TITLE: Sampling Bias in Deep Active Classification: An Empirical Study
https://www.aclweb.org/anthology/D19-1417
AUTHORS: Ameya Prabhu, Charles Dognin, Maneesh Singh
HIGHLIGHT: Based on the above, we propose a simple baseline for deep active text classification that outperforms the state of the art.

418, TITLE: Don't Take the Easy Way Out: Ensemble Based Methods for Avoiding Known Dataset Biases
https://www.aclweb.org/anthology/D19-1418
AUTHORS: Christopher Clark, Mark Yatskar, Luke Zettlemoyer
HIGHLIGHT: In this paper, we show that if we have prior knowledge of such biases, we can train a model to be more robust to domain shift.

419, TITLE: Achieving Verified Robustness to Symbol Substitutions via Interval Bound Propagation
https://www.aclweb.org/anthology/D19-1419
AUTHORS: Po-Sen Huang, Robert Stanforth, Johannes Welbl, Chris Dyer, Dani Yogatama, Sven Gowal, Krishnamurthy Dvijotham, Pushmeet Kohli
HIGHLIGHT: In this work, we approach the problem from the opposite direction: to formally verify a system's robustness against a predefined class of adversarial attacks.

420, TITLE: Rethinking Cooperative Rationalization: Introspective Extraction and Complement Control
https://www.aclweb.org/anthology/D19-1420
AUTHORS: Mo Yu, Shiyu Chang, Yang Zhang, Tommi Jaakkola
HIGHLIGHT: We introduce an introspective model which explicitly predicts and incorporates the outcome into the selection process.

421, TITLE: Experimenting with Power Divergences for Language Modeling
https://www.aclweb.org/anthology/D19-1421
AUTHORS: Matthieu Labeau, Shay B. Cohen
HIGHLIGHT: In this paper, we experiment with several families (alpha, beta and gamma) of power divergences, generalized from the KL divergence, for learning language models with an objective different than standard MLE.

422, TITLE: Hierarchically-Refined Label Attention Network for Sequence Labeling
https://www.aclweb.org/anthology/D19-1422
AUTHORS: Leyang Cui, Yue Zhang

HIGHLIGHT: For better representing label sequences, we investigate a hierarchically-refined label attention network, which explicitly leverages label embeddings and captures potential long-term label dependency by giving each word incrementally refined label distributions with hierarchical attention.

423, TITLE: Certified Robustness to Adversarial Word Substitutions
https://www.aclweb.org/anthology/D19-1423
AUTHORS: Robin Jia, Aditi Raghunathan, Kerem Göksel, Percy Liang
HIGHLIGHT: We train the first models that are provably robust to all word substitutions in this family.

424, TITLE: Visualizing and Understanding the Effectiveness of BERT
https://www.aclweb.org/anthology/D19-1424
AUTHORS: Yaru Hao, Li Dong, Furu Wei, Ke Xu
HIGHLIGHT: In this paper, we propose to visualize loss landscapes and optimization trajectories of fine-tuning BERT on specific datasets.

425, TITLE: Topics to Avoid: Demoting Latent Confounds in Text Classification
https://www.aclweb.org/anthology/D19-1425
AUTHORS: Sachin Kumar, Shuly Wintner, Noah A. Smith, Yulia Tsvetkov
HIGHLIGHT: We propose a method that represents the latent topical confounds and a model which "unlearns" confounding features by predicting both the label of the input text and the confound; but we train the two predictors adversarially in an alternating fashion to learn a text representation that predicts the correct label but is less prone to using information about the confound.

426, TITLE: Learning to Ask for Conversational Machine Learning
https://www.aclweb.org/anthology/D19-1426
AUTHORS: Shashank Srivastava, Igor Labutov, Tom Mitchell
HIGHLIGHT: We present a reinforcement learning framework, where the learner's actions correspond to question types and the reward for asking a question is based on how the teacher's response changes performance of the resulting machine learning model on the learning task.

427, TITLE: Language Modeling for Code-Switching: Evaluation, Integration of Monolingual Data, and Discriminative Training
https://www.aclweb.org/anthology/D19-1427
AUTHORS: Hila Gonen, Yoav Goldberg
HIGHLIGHT: We tackle these three issues: we propose an ASR-motivated evaluation setup which is decoupled from an ASR system and the choice of vocabulary, and provide an evaluation dataset for English-Spanish code-switching.

428, TITLE: Using Local Knowledge Graph Construction to Scale Seq2Seq Models to Multi-Document Inputs
https://www.aclweb.org/anthology/D19-1428
AUTHORS: Angela Fan, Claire Gardent, Chloé Braud, Antoine Bordes
HIGHLIGHT: We propose constructing a local graph structured knowledge base for each query, which compresses the web search information and reduces redundancy.

429, TITLE: Fine-grained Knowledge Fusion for Sequence Labeling Domain Adaptation
https://www.aclweb.org/anthology/D19-1429
AUTHORS: Huiyun Yang, Shujian Huang, XIN-YU DAI, Jiajun CHEN
HIGHLIGHT: To take the multi-level domain relevance discrepancy into account, in this paper, we propose a fine-grained knowledge fusion model with the domain relevance modeling scheme to control the balance between learning from the target domain data and learning from the source domain model.

430, TITLE: Exploiting Monolingual Data at Scale for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1430
AUTHORS: Lijun Wu, Yiren Wang, Yingce Xia, Tao QIN, Jianhuang Lai, Tie-Yan Liu
HIGHLIGHT: In this work, we study how to use both the source-side and target-side monolingual data for NMT, and propose an effective strategy leveraging both of them.

431, TITLE: Meta Relational Learning for Few-Shot Link Prediction in Knowledge Graphs
https://www.aclweb.org/anthology/D19-1431
AUTHORS: Mingyang Chen, Wen Zhang, Wei Zhang, Qiang Chen, Huajun Chen
HIGHLIGHT: In this work, we propose a Meta Relational Learning (MetaR) framework to do the common but challenging few-shot link prediction in KGs, namely predicting new triples about a relation by only observing a few associative triples.

432, TITLE: Distributionally Robust Language Modeling
https://www.aclweb.org/anthology/D19-1432
AUTHORS: Yonatan Oren, Shiori Sagawa, Tatsunori Hashimoto, Percy Liang
HIGHLIGHT: To remedy this without the knowledge of the test distribution, we propose an approach which trains a model that performs well over a wide range of potential test distributions.

433, TITLE: Unsupervised Domain Adaptation of Contextualized Embeddings for Sequence Labeling
https://www.aclweb.org/anthology/D19-1433
AUTHORS: Xiaochuang Han, Jacob Eisenstein
HIGHLIGHT: To address this scenario, we propose domain-adaptive fine-tuning, in which the contextualized embeddings are adapted by masked language modeling on text from the target domain.

434, TITLE: Learning Latent Parameters without Human Response Patterns: Item Response Theory with Artificial Crowds
https://www.aclweb.org/anthology/D19-1434
AUTHORS: John P. Lalor, Hao Wu, Hong Yu
HIGHLIGHT: In this work we propose learning IRT models using RPs generated from artificial crowds of DNN models.

435, TITLE: Parallel Iterative Edit Models for Local Sequence Transduction
https://www.aclweb.org/anthology/D19-1435
AUTHORS: Abhijeet Awasthi, Sunita Sarawagi, Rasna Goyal, Sabyasachi Ghosh, Vihari Piratla
HIGHLIGHT: We present a Parallel Iterative Edit (PIE) model for the problem of local sequence transduction arising in tasks like Grammatical error correction (GEC).

436, TITLE: ARAML: A Stable Adversarial Training Framework for Text Generation
https://www.aclweb.org/anthology/D19-1436
AUTHORS: Pei Ke, Fei Huang, Minlie Huang, xiaoyan zhu
HIGHLIGHT: To tackle this problem, we propose a novel framework called Adversarial Reward Augmented Maximum Likelihood (ARAML).

437, TITLE: FlowSeq: Non-Autoregressive Conditional Sequence Generation with Generative Flow
https://www.aclweb.org/anthology/D19-1437
AUTHORS: Xuezhe Ma, Chunting Zhou, Xian Li, Graham Neubig, Eduard Hovy
HIGHLIGHT: In this paper, we propose a simple, efficient, and effective model for non-autoregressive sequence generation using latent variable models.

438, TITLE: Compositional Generalization for Primitive Substitutions
https://www.aclweb.org/anthology/D19-1438
AUTHORS: Yuanpeng Li, Liang Zhao, Jianyu Wang, Joel Hestness
HIGHLIGHT: In this paper, we conduct fundamental research for encoding compositionality in neural networks.

439, TITLE: WikiCREM: A Large Unsupervised Corpus for Coreference Resolution
https://www.aclweb.org/anthology/D19-1439
AUTHORS: Vid Kocijan, Oana-Maria Camburu, Ana-Maria Cretu, Yordan Yordanov, Phil Blunsom, Thomas Lukasiewicz
HIGHLIGHT: In this work, we introduce WikiCREM (Wikipedia CoREferences Masked) a large-scale, yet accurate dataset of pronoun disambiguation instances.

440, TITLE: Identifying and Explaining Discriminative Attributes
https://www.aclweb.org/anthology/D19-1440
AUTHORS: Armins Stepanjans, André Freitas
HIGHLIGHT: This paper describes an explicit word vector representation model (WVM) to support the identification of discriminative attributes.

441, TITLE: Patient Knowledge Distillation for BERT Model Compression
https://www.aclweb.org/anthology/D19-1441
AUTHORS: Siqi Sun, Yu Cheng, Zhe Gan, Jingjing Liu
HIGHLIGHT: In order to alleviate this resource hunger in large-scale model training, we propose a Patient Knowledge Distillation approach to compress an original large model (teacher) into an equally-effective lightweight shallow network (student).

442, TITLE: Neural Gaussian Copula for Variational Autoencoder

https://www.aclweb.org/anthology/D19-1442
AUTHORS: Prince Zizhuang Wang, William Yang Wang
HIGHLIGHT: We propose Gaussian Copula Variational Autoencoder (VAE) to avert this problem.

443, TITLE: Transformer Dissection: An Unified Understanding for Transformer's Attention via the Lens of Kernel
https://www.aclweb.org/anthology/D19-1443
AUTHORS: Yao-Hung Hubert Tsai, Shaojie Bai, Makoto Yamada, Louis-Philippe Morency, Ruslan Salakhutdinov
HIGHLIGHT: In this paper, we present a new formulation of attention via the lens of the kernel.

444, TITLE: Learning to Learn and Predict: A Meta-Learning Approach for Multi-Label Classification
https://www.aclweb.org/anthology/D19-1444
AUTHORS: Jiawei Wu, Wenhan Xiong, William Yang Wang
HIGHLIGHT: In this paper, we propose a meta-learning method to capture these complex label dependencies.

445, TITLE: Revealing the Dark Secrets of BERT
https://www.aclweb.org/anthology/D19-1445
AUTHORS: Olga Kovaleva, Alexey Romanov, Anna Rogers, Anna Rumshisky
HIGHLIGHT: In the current work, we focus on the interpretation of self-attention, which is one of the fundamental underlying components of BERT.

446, TITLE: Machine Translation With Weakly Paired Documents
https://www.aclweb.org/anthology/D19-1446
AUTHORS: Lijun Wu, Jinhua Zhu, Di He, Fei Gao, Tao QIN, Jianhuang Lai, Tie-Yan Liu
HIGHLIGHT: Observing that weakly paired bilingual documents are much easier to collect than bilingual sentences, e.g., from Wikipedia, news websites or books, in this paper, we investigate training translation models with weakly paired bilingual documents.

447, TITLE: Countering Language Drift via Visual Grounding
https://www.aclweb.org/anthology/D19-1447
AUTHORS: Jason Lee, Kyunghyun Cho, Douwe Kiela
HIGHLIGHT: We recast translation as a multi-agent communication game and examine auxiliary training constraints for their effectiveness in mitigating language drift.

448, TITLE: The Bottom-up Evolution of Representations in the Transformer: A Study with Machine Translation and Language Modeling Objectives
https://www.aclweb.org/anthology/D19-1448
AUTHORS: Elena Voita, Rico Sennrich, Ivan Titov
HIGHLIGHT: In this work, we use canonical correlation analysis and mutual information estimators to study how information flows across Transformer layers and observe that the choice of the objective determines this process.

449, TITLE: Do We Really Need Fully Unsupervised Cross-Lingual Embeddings?
https://www.aclweb.org/anthology/D19-1449
AUTHORS: Ivan Vuli?, Goran Glavaš, Roi Reichart, Anna Korhonen
HIGHLIGHT: In this paper, we question the ability of even the most robust unsupervised CLWE approaches to induce meaningful CLWEs in these more challenging settings.

450, TITLE: Weakly-Supervised Concept-based Adversarial Learning for Cross-lingual Word Embeddings
https://www.aclweb.org/anthology/D19-1450
AUTHORS: Haozhou Wang, James Henderson, Paola Merlo
HIGHLIGHT: In this paper, we propose a weakly-supervised adversarial training method to overcome this limitation, based on the intuition that mapping across languages is better done at the concept level than at the word level.

451, TITLE: Aligning Cross-Lingual Entities with Multi-Aspect Information
https://www.aclweb.org/anthology/D19-1451
AUTHORS: Hsiu-Wei Yang, Yanyan Zou, Peng Shi, Wei Lu, Jimmy Lin, Xu SUN
HIGHLIGHT: In this work, we investigate embedding-based approaches to encode entities from multilingual KGs into the same vector space, where equivalent entities are close to each other.

452, TITLE: Contrastive Language Adaptation for Cross-Lingual Stance Detection
https://www.aclweb.org/anthology/D19-1452
AUTHORS: Mitra Mohtarami, James Glass, Preslav Nakov

HIGHLIGHT: In particular, we introduce a novel contrastive language adaptation approach applied to memory networks, which ensures accurate alignment of stances in the source and target languages, and can effectively deal with the challenge of limited labeled data in the target language.

453, TITLE: Jointly Learning to Align and Translate with Transformer Models
https://www.aclweb.org/anthology/D19-1453
AUTHORS: Sarthak Garg, Stephan Peitz, Udhyakumar Nallasamy, Matthias Paulik
HIGHLIGHT: In this paper, we present an approach to train a Transformer model to produce both accurate translations and alignments.

454, TITLE: Social IQa: Commonsense Reasoning about Social Interactions
https://www.aclweb.org/anthology/D19-1454
AUTHORS: Maarten Sap, Hannah Rashkin, Derek Chen, Ronan Le Bras, Yejin Choi
HIGHLIGHT: We introduce Social IQa, the first large-scale benchmark for commonsense reasoning about social situations.

455, TITLE: Self-Assembling Modular Networks for Interpretable Multi-Hop Reasoning
https://www.aclweb.org/anthology/D19-1455
AUTHORS: Yichen Jiang, Mohit Bansal
HIGHLIGHT: In this work, we present an interpretable, controller-based Self-Assembling Neural Modular Network (Hu et al., 2017, 2018) for multi-hop reasoning, where we design four novel modules (Find, Relocate, Compare, NoOp) to perform unique types of language reasoning.

456, TITLE: Posing Fair Generalization Tasks for Natural Language Inference
https://www.aclweb.org/anthology/D19-1456
AUTHORS: Atticus Geiger, Ignacio Cases, Lauri Karttunen, Christopher Potts
HIGHLIGHT: In this paper, we define and motivate a formal notion of fairness in this sense.

457, TITLE: Everything Happens for a Reason: Discovering the Purpose of Actions in Procedural Text
https://www.aclweb.org/anthology/D19-1457
AUTHORS: Bhavana Dalvi, Niket Tandon, Antoine Bosselut, Wen-tau Yih, Peter Clark
HIGHLIGHT: We present our new model (XPAD) that biases effect predictions towards those that (1) explain more of the actions in the paragraph and (2) are more plausible with respect to background knowledge.

458, TITLE: CLUTRR: A Diagnostic Benchmark for Inductive Reasoning from Text
https://www.aclweb.org/anthology/D19-1458
AUTHORS: Koustuv Sinha, Shagun Sodhani, Jin Dong, Joelle Pineau, William L. Hamilton
HIGHLIGHT: In this work, we introduce a diagnostic benchmark suite, named CLUTRR, to clarify some key issues related to the robustness and systematicity of NLU systems.

459, TITLE: Taskmaster-1: Toward a Realistic and Diverse Dialog Dataset
https://www.aclweb.org/anthology/D19-1459
AUTHORS: Bill Byrne, Karthik Krishnamoorthi, Chinnadhurai Sankar, Arvind Neelakantan, Ben Goodrich, Daniel Duckworth, Semih Yavuz, Amit Dubey, Kyu-Young Kim, Andy Cedilnik
HIGHLIGHT: To help satisfy this elementary requirement, we introduce the initial release of the Taskmaster-1 dataset which includes 13,215 task-based dialogs comprising six domains.

460, TITLE: Multi-Domain Goal-Oriented Dialogues (MultiDoGO): Strategies toward Curating and Annotating Large Scale Dialogue Data
https://www.aclweb.org/anthology/D19-1460
AUTHORS: Denis Peskov, Nancy Clarke, Jason Krone, Brigi Fodor, Yi Zhang, Adel Youssef, Mona Diab
HIGHLIGHT: In this paper, we present strategies toward curating and annotating large scale goal oriented dialogue data. We introduce the MultiDoGO dataset to overcome these limitations.

461, TITLE: Build it Break it Fix it for Dialogue Safety: Robustness from Adversarial Human Attack
https://www.aclweb.org/anthology/D19-1461
AUTHORS: Emily Dinan, Samuel Humeau, Bharath Chintagunta, Jason Weston
HIGHLIGHT: In this work, we develop a training scheme for a model to become robust to such human attacks by an iterative build it, break it, fix it scheme with humans and models in the loop.

462, TITLE: GECOR: An End-to-End Generative Ellipsis and Co-reference Resolution Model for Task-Oriented Dialogue

https://www.aclweb.org/anthology/D19-1462
AUTHORS: Jun Quan, Deyi Xiong, Bonnie Webber, Changjian Hu
HIGHLIGHT: In this paper, we treat the resolution of ellipsis and co-reference in dialogue as a problem of generating omitted or referred expressions from the dialogue context.

463, TITLE: Task-Oriented Conversation Generation Using Heterogeneous Memory Networks
https://www.aclweb.org/anthology/D19-1463
AUTHORS: Zehao Lin, Xinjing Huang, Feng Ji, Haiqing Chen, Yin Zhang
HIGHLIGHT: In this paper, we propose a novel and versatile external memory networks called Heterogeneous Memory Networks (HMNs), to simultaneously utilize user utterances, dialogue history and background knowledge tuples.

464, TITLE: Aspect-based Sentiment Classification with Aspect-specific Graph Convolutional Networks
https://www.aclweb.org/anthology/D19-1464
AUTHORS: Chen Zhang, Qiuchi Li, Dawei Song
HIGHLIGHT: To tackle this problem, we propose to build a Graph Convolutional Network (GCN) over the dependency tree of a sentence to exploit syntactical information and word dependencies.

465, TITLE: Coupling Global and Local Context for Unsupervised Aspect Extraction
https://www.aclweb.org/anthology/D19-1465
AUTHORS: Ming Liao, Jing Li, Haisong Zhang, Lingzhi Wang, Xixin Wu, Kam-Fai Wong
HIGHLIGHT: We propose a novel neural model, capable of coupling global and local representation to discover aspect words.

466, TITLE: Transferable End-to-End Aspect-based Sentiment Analysis with Selective Adversarial Learning
https://www.aclweb.org/anthology/D19-1466
AUTHORS: Zheng Li, Xin Li, Ying Wei, Lidong Bing, Yu Zhang, Qiang Yang
HIGHLIGHT: To resolve it, we propose a novel Selective Adversarial Learning (SAL) method to align the inferred correlation vectors that automatically capture their latent relations.

467, TITLE: CAN: Constrained Attention Networks for Multi-Aspect Sentiment Analysis
https://www.aclweb.org/anthology/D19-1467
AUTHORS: Mengting Hu, Shiwan Zhao, Li Zhang, Keke Cai, Zhong Su, Renhong Cheng, Xiaowei Shen
HIGHLIGHT: In this paper, we propose constrained attention networks (CAN), a simple yet effective solution, to regularize the attention for multi-aspect sentiment analysis, which alleviates the drawback of the attention mechanism.

468, TITLE: Leveraging Just a Few Keywords for Fine-Grained Aspect Detection Through Weakly Supervised Co-Training
https://www.aclweb.org/anthology/D19-1468
AUTHORS: Giannis Karamanolakis, Daniel Hsu, Luis Gravano
HIGHLIGHT: In this work, we consider weakly supervised approaches for training aspect classifiers that only require the user to provide a small set of seed words (i.e., weakly positive indicators) for the aspects of interest.

469, TITLE: Integrating Text and Image: Determining Multimodal Document Intent in Instagram Posts
https://www.aclweb.org/anthology/D19-1469
AUTHORS: Julia Kruk, Jonah Lubin, Karan Sikka, Xiao Lin, Dan Jurafsky, Ajay Divakaran
HIGHLIGHT: Here we introduce a multimodal dataset of {\$}1299{\$} Instagram posts labeled for three orthogonal taxonomies: the authorial intent behind the image-caption pair, the contextual relationship between the literal meanings of the image and caption, and the semiotic relationship between the signified meanings of the image and caption.

470, TITLE: Neural Conversation Recommendation with Online Interaction Modeling
https://www.aclweb.org/anthology/D19-1470
AUTHORS: Xingshan Zeng, Jing Li, Lu Wang, Kam-Fai Wong
HIGHLIGHT: In this paper, we present a novel framework to automatically recommend conversations to users based on their prior conversation behaviors.

471, TITLE: Different Absorption from the Same Sharing: Sifted Multi-task Learning for Fake News Detection
https://www.aclweb.org/anthology/D19-1471
AUTHORS: Lianwei Wu, Yuan Rao, Haolin Jin, Ambreen Nazir, Ling Sun
HIGHLIGHT: In this paper, we design a sifted multi-task learning method with a selected sharing layer for fake news detection.

472, TITLE: Text-based inference of moral sentiment change

https://www.aclweb.org/anthology/D19-1472
AUTHORS: Jing Yi Xie, Renato Ferreira Pinto Junior, Graeme Hirst, Yang Xu
HIGHLIGHT: We present a text-based framework for investigating moral sentiment change of the public via longitudinal corpora.

473, TITLE: Detecting Causal Language Use in Science Findings
https://www.aclweb.org/anthology/D19-1473
AUTHORS: Bei Yu, Yingya Li, Jun Wang
HIGHLIGHT: In this study, we first annotated a corpus of over 3,000 PubMed research conclusion sentences, then developed a BERT-based prediction model that classifies conclusion sentences into "no relationship", "correlational", "conditional causal", and "direct causal" categories, achieving an accuracy of 0.90 and a macro-F1 of 0.88. We then applied the prediction model to measure the causal language use in the research conclusions of about 38,000 observational studies in PubMed.

474, TITLE: Multilingual and Multi-Aspect Hate Speech Analysis
https://www.aclweb.org/anthology/D19-1474
AUTHORS: Nedjma Ousidhoum, Zizheng Lin, Hongming Zhang, Yangqiu Song, Dit-Yan Yeung
HIGHLIGHT: In this paper, we present a new multilingual multi-aspect hate speech analysis dataset and use it to test the current state-of-the-art multilingual multitask learning approaches.

475, TITLE: MultiFC: A Real-World Multi-Domain Dataset for Evidence-Based Fact Checking of Claims
https://www.aclweb.org/anthology/D19-1475
AUTHORS: Isabelle Augenstein, Christina Lioma, Dongsheng Wang, Lucas Chaves Lima, Casper Hansen, Christian Hansen, Jakob Grue Simonsen
HIGHLIGHT: We contribute the largest publicly available dataset of naturally occurring factual claims for the purpose of automatic claim verification.

476, TITLE: A Deep Neural Information Fusion Architecture for Textual Network Embeddings
https://www.aclweb.org/anthology/D19-1476
AUTHORS: Zenan Xu, Qinliang Su, Xiaojun Quan, Weijia Zhang
HIGHLIGHT: In this paper, a deep neural architecture is proposed to effectively fuse the two kinds of informations into one representation.

477, TITLE: You Shall Know a User by the Company It Keeps: Dynamic Representations for Social Media Users in NLP
https://www.aclweb.org/anthology/D19-1477
AUTHORS: Marco Del Tredici, Diego Marcheggiani, Sabine Schulte im Walde, Raquel Fernández
HIGHLIGHT: We present a model based on Graph Attention Networks that captures this observation.

478, TITLE: Adaptive Ensembling: Unsupervised Domain Adaptation for Political Document Analysis
https://www.aclweb.org/anthology/D19-1478
AUTHORS: Shrey Desai, Barea Sinno, Alex Rosenfeld, Junyi Jessy Li
HIGHLIGHT: To bridge this gap, we present adaptive ensembling, an unsupervised domain adaptation framework, equipped with a novel text classification model and time-aware training to ensure our methods work well with diachronic corpora.

479, TITLE: Macrocosm: Social Media Persona Linking for Open Source Intelligence Applications
https://www.aclweb.org/anthology/D19-1479
AUTHORS: Graham Horwood, Ning Yu, Thomas Boggs, Changjiang Yang, Chad Holvenstot
HIGHLIGHT: This paper presents a multi-modal analysis of cross-contextual online social media (Macrocosm), a data-driven approach to detect similarities among user personas over six modalities: usernames, patterns-of-life, stylometry, semantic content, image content, and social network associations.

480, TITLE: A Hierarchical Location Prediction Neural Network for Twitter User Geolocation
https://www.aclweb.org/anthology/D19-1480
AUTHORS: Binxuan Huang, Kathleen Carley
HIGHLIGHT: In this paper, we propose a hierarchical location prediction neural network for Twitter user geolocation.

481, TITLE: Trouble on the Horizon: Forecasting the Derailment of Online Conversations as they Develop
https://www.aclweb.org/anthology/D19-1481
AUTHORS: Jonathan P. Chang, Cristian Danescu-Niculescu-Mizil
HIGHLIGHT: In this work we introduce a conversational forecasting model that learns an unsupervised representation of conversational dynamics and exploits it to predict future derailment as the conversation develops.

482, TITLE: A Benchmark Dataset for Learning to Intervene in Online Hate Speech
https://www.aclweb.org/anthology/D19-1482
AUTHORS: Jing Qian, Anna Bethke, Yinyin Liu, Elizabeth Belding, William Yang Wang
HIGHLIGHT: In this paper, we propose a novel task of generative hate speech intervention, where the goal is to automatically generate responses to intervene during online conversations that contain hate speech. As a part of this work, we introduce two fully-labeled large-scale hate speech intervention datasets collected from Gab and Reddit.

483, TITLE: Detecting and Reducing Bias in a High Stakes Domain
https://www.aclweb.org/anthology/D19-1483
AUTHORS: Ruiqi Zhong, Yanda Chen, Desmond Patton, Charlotte Selous, Kathy McKeown
HIGHLIGHT: To address the possibility of bias in this sensitive application, we developed an approach to systematically interpret the state of the art model.

484, TITLE: CodeSwitch-Reddit: Exploration of Written Multilingual Discourse in Online Discussion Forums
https://www.aclweb.org/anthology/D19-1484
AUTHORS: Ella Rabinovich, Masih Sultani, Suzanne Stevenson
HIGHLIGHT: We introduce a novel, large, and diverse dataset of written code-switched productions, curated from topical threads of multiple bilingual communities on the Reddit discussion platform, and explore questions that were mainly addressed in the context of spoken language thus far.

485, TITLE: Modeling Conversation Structure and Temporal Dynamics for Jointly Predicting Rumor Stance and Veracity
https://www.aclweb.org/anthology/D19-1485
AUTHORS: Penghui Wei, Nan Xu, Wenji Mao
HIGHLIGHT: In this paper, we propose a hierarchical multi-task learning framework for jointly predicting rumor stance and veracity on Twitter, which consists of two components.

486, TITLE: Reconstructing Capsule Networks for Zero-shot Intent Classification
https://www.aclweb.org/anthology/D19-1486
AUTHORS: Han Liu, Xiaotong Zhang, Lu Fan, Xuandi Fu, Qimai Li, Xiao-Ming Wu, Albert Y.S. Lam
HIGHLIGHT: To overcome these limitations, we propose to reconstruct capsule networks for zero-shot intent classification.

487, TITLE: Domain Adaptation for Person-Job Fit with Transferable Deep Global Match Network
https://www.aclweb.org/anthology/D19-1487
AUTHORS: Shuqing Bian, Wayne Xin Zhao, Yang Song, Tao Zhang, Ji-Rong Wen
HIGHLIGHT: We study the domain adaptation problem for person-job fit.

488, TITLE: Heterogeneous Graph Attention Networks for Semi-supervised Short Text Classification
https://www.aclweb.org/anthology/D19-1488
AUTHORS: Hu Linmei, Tianchi Yang, Chuan Shi, Houye Ji, Xiaoli Li
HIGHLIGHT: In this paper, we propose a novel heterogeneous graph neural network based method for semi-supervised short text classification, leveraging full advantage of few labeled data and large unlabeled data through information propagation along the graph.

489, TITLE: Comparing and Developing Tools to Measure the Readability of Domain-Specific Texts
https://www.aclweb.org/anthology/D19-1489
AUTHORS: Elissa Redmiles, Lisa Maszkiewicz, Emily Hwang, Dhruv Kuchhal, Everest Liu, Miraida Morales, Denis Peskov, Sudha Rao, Rock Stevens, Kristina Gligori?, Sean Kross, Michelle Mazurek, Hal Daumé III
HIGHLIGHT: In this work, we present a comparison of the validity of well-known readability measures and introduce a novel approach, Smart Cloze, which is designed to address shortcomings of existing measures.

490, TITLE: News2vec: News Network Embedding with Subnode Information
https://www.aclweb.org/anthology/D19-1490
AUTHORS: Ye Ma, Lu Zong, Yikang Yang, Jionglong Su
HIGHLIGHT: With the aim of filling this gap, the News2vec model is proposed to allow the distributed representation of news taking into account its associated features.

491, TITLE: Recursive Context-Aware Lexical Simplification
https://www.aclweb.org/anthology/D19-1491
AUTHORS: Sian Gooding, Ekaterina Kochmar

HIGHLIGHT: This paper presents a novel architecture for recursive context-aware lexical simplification, REC-LS, that is capable of (1) making use of the wider context when detecting the words in need of simplification and suggesting alternatives, and (2) taking previous simplification steps into account.

492, TITLE: Leveraging Medical Literature for Section Prediction in Electronic Health Records
https://www.aclweb.org/anthology/D19-1492
AUTHORS: Sara Rosenthal, Ken Barker, Zhicheng Liang
HIGHLIGHT: We propose using sections from medical literature (e.g., textbooks, journals, web content) that contain content similar to that found in EHR sections.

493, TITLE: Neural News Recommendation with Heterogeneous User Behavior
https://www.aclweb.org/anthology/D19-1493
AUTHORS: Chuhan Wu, Fangzhao Wu, Mingxiao An, Tao Qi, Jianqiang Huang, Yongfeng Huang, Xing Xie
HIGHLIGHT: In this paper, we propose a neural news recommendation approach which can exploit heterogeneous user behaviors.

494, TITLE: Reviews Meet Graphs: Enhancing User and Item Representations for Recommendation with Hierarchical Attentive Graph Neural Network
https://www.aclweb.org/anthology/D19-1494
AUTHORS: Chuhan Wu, Fangzhao Wu, Tao Qi, Suyu Ge, Yongfeng Huang, Xing Xie
HIGHLIGHT: In this paper, we propose a neural recommendation approach which can utilize useful information from both review content and user-item graphs.

495, TITLE: Event Representation Learning Enhanced with External Commonsense Knowledge
https://www.aclweb.org/anthology/D19-1495
AUTHORS: Xiao Ding, Kuo Liao, Ting Liu, Zhongyang Li, Junwen Duan
HIGHLIGHT: To address this issue, this paper proposes to leverage external commonsense knowledge about the intent and sentiment of the event.

496, TITLE: Learning to Discriminate Perturbations for Blocking Adversarial Attacks in Text Classification
https://www.aclweb.org/anthology/D19-1496
AUTHORS: Yichao Zhou, Jyun-Yu Jiang, Kai-Wei Chang, Wei Wang
HIGHLIGHT: In this paper, we propose a novel framework, learning to discriminate perturbations (DISP), to identify and adjust malicious perturbations, thereby blocking adversarial attacks for text classification models.

497, TITLE: A Neural Citation Count Prediction Model based on Peer Review Text
https://www.aclweb.org/anthology/D19-1497
AUTHORS: Siqing Li, Wayne Xin Zhao, Eddy Jing Yin, Ji-Rong Wen
HIGHLIGHT: In this paper, we take the initiative to utilize peer review data for the CCP task with a neural prediction model.

498, TITLE: Connecting the Dots: Document-level Neural Relation Extraction with Edge-oriented Graphs
https://www.aclweb.org/anthology/D19-1498
AUTHORS: Fenia Christopoulou, Makoto Miwa, Sophia Ananiadou
HIGHLIGHT: We thus propose an edge-oriented graph neural model for document-level relation extraction.

499, TITLE: Semi-supervised Text Style Transfer: Cross Projection in Latent Space
https://www.aclweb.org/anthology/D19-1499
AUTHORS: Mingyue Shang, Piji Li, Zhenxin Fu, Lidong Bing, Dongyan Zhao, Shuming Shi, Rui Yan
HIGHLIGHT: With these two types of training data, we introduce a projection function between the latent space of different styles and design two constraints to train it.

500, TITLE: Question Answering for Privacy Policies: Combining Computational and Legal Perspectives
https://www.aclweb.org/anthology/D19-1500
AUTHORS: Abhilasha Ravichander, Alan W Black, Shomir Wilson, Thomas Norton, Norman Sadeh
HIGHLIGHT: We present PrivacyQA, a corpus consisting of 1750 questions about the privacy policies of mobile applications, and over 3500 expert annotations of relevant answers.

501, TITLE: Stick to the Facts: Learning towards a Fidelity-oriented E-Commerce Product Description Generation
https://www.aclweb.org/anthology/D19-1501

AUTHORS: Zhangming Chan, Xiuying Chen, Yongliang Wang, Juntao Li, Zhiqiang Zhang, Kun Gai, Dongyan Zhao, Rui Yan
HIGHLIGHT: To bridge this gap we propose a model named Fidelity-oriented Product Description Generator (FPDG).

502, TITLE: Fine-Grained Entity Typing via Hierarchical Multi Graph Convolutional Networks
https://www.aclweb.org/anthology/D19-1502
AUTHORS: Hailong Jin, Lei Hou, Juanzi Li, Tiansi Dong
HIGHLIGHT: We convert this problem into the task of graph-based semi-supervised classification, and propose Hierarchical Multi Graph Convolutional Network (HMGCN), a novel Deep Learning architecture to tackle this problem.

503, TITLE: Learning to Infer Entities, Properties and their Relations from Clinical Conversations
https://www.aclweb.org/anthology/D19-1503
AUTHORS: Nan Du, Mingqiu Wang, Linh Tran, Gang Lee, Izhak Shafran
HIGHLIGHT: We extend the SAT model to jointly infer not only entities and their properties but also relations between them.

504, TITLE: Practical Correlated Topic Modeling and Analysis via the Rectified Anchor Word Algorithm
https://www.aclweb.org/anthology/D19-1504
AUTHORS: Moontae Lee, Sungjun Cho, David Bindel, David Mimno
HIGHLIGHT: This paper aims to solidify the foundations of spectral topic inference and provide a practical implementation for anchor-based topic modeling.

505, TITLE: Modeling the Relationship between User Comments and Edits in Document Revision
https://www.aclweb.org/anthology/D19-1505
AUTHORS: Xuchao Zhang, Dheeraj Rajagopal, Michael Gamon, Sujay Kumar Jauhar, ChangTien Lu
HIGHLIGHT: Thus, in this paper we explore the relationship between comments and edits by defining two novel, related tasks: Comment Ranking and Edit Anchoring.

506, TITLE: PRADO: Projection Attention Networks for Document Classification On-Device
https://www.aclweb.org/anthology/D19-1506
AUTHORS: Karthik Krishnamoorthi, Sujith Ravi, Zornitsa Kozareva
HIGHLIGHT: We propose a novel projection attention neural network PRADO that combines trainable projections with attention and convolutions.

507, TITLE: Subword Language Model for Query Auto-Completion
https://www.aclweb.org/anthology/D19-1507
AUTHORS: Gyuwan Kim
HIGHLIGHT: We present how to utilize subword language models for the fast and accurate generation of query completion candidates.

508, TITLE: Enhancing Dialogue Symptom Diagnosis with Global Attention and Symptom Graph
https://www.aclweb.org/anthology/D19-1508
AUTHORS: Xinzhu Lin, Xiahui He, Qin Chen, Huaixiao Tou, Zhongyu Wei, Ting Chen
HIGHLIGHT: In order to further enhance the performance of symptom diagnosis over dialogues, we propose a global attention mechanism to capture more symptom related information, and build a symptom graph to model the associations between symptoms rather than treating each symptom independently.

509, TITLE: Counterfactual Story Reasoning and Generation
https://www.aclweb.org/anthology/D19-1509
AUTHORS: Lianhui Qin, Antoine Bosselut, Ari Holtzman, Chandra Bhagavatula, Elizabeth Clark, Yejin Choi
HIGHLIGHT: In this paper, we propose Counterfactual Story Rewriting: given an original story and an intervening counterfactual event, the task is to minimally revise the story to make it compatible with the given counterfactual event.

510, TITLE: Encode, Tag, Realize: High-Precision Text Editing
https://www.aclweb.org/anthology/D19-1510
AUTHORS: Eric Malmi, Sebastian Krause, Sascha Rothe, Daniil Mirylenka, Aliaksei Severyn
HIGHLIGHT: To predict the edit operations, we propose a novel model, which combines a BERT encoder with an autoregressive Transformer decoder.

511, TITLE: Answer-guided and Semantic Coherent Question Generation in Open-domain Conversation
https://www.aclweb.org/anthology/D19-1511

AUTHORS: Weichao Wang, Shi Feng, Daling Wang, Yifei Zhang
HIGHLIGHT: Thus, we devise two methods to further enhance semantic coherence between post and question under the guidance of answer.

512, TITLE: Read, Attend and Comment: A Deep Architecture for Automatic News Comment Generation
https://www.aclweb.org/anthology/D19-1512
AUTHORS: Ze Yang, Can Xu, wei wu, zhoujun li
HIGHLIGHT: In this paper, we propose a "read-attend-comment" procedure for news comment generation and formalize the procedure with a reading network and a generation network.

513, TITLE: A Topic Augmented Text Generation Model: Joint Learning of Semantics and Structural Features
https://www.aclweb.org/anthology/D19-1513
AUTHORS: hongyin tang, Miao Li, Beihong Jin
HIGHLIGHT: In this paper, we propose a text generation model that learns semantics and structural features simultaneously.

514, TITLE: LXMERT: Learning Cross-Modality Encoder Representations from Transformers
https://www.aclweb.org/anthology/D19-1514
AUTHORS: Hao Tan, Mohit Bansal
HIGHLIGHT: We thus propose the LXMERT (Learning Cross-Modality Encoder Representations from Transformers) framework to learn these vision-and-language connections.

515, TITLE: Phrase Grounding by Soft-Label Chain Conditional Random Field
https://www.aclweb.org/anthology/D19-1515
AUTHORS: Jiacheng Liu, Julia Hockenmaier
HIGHLIGHT: In this paper, we formulate phrase grounding as a sequence labeling task where we treat candidate regions as potential labels, and use neural chain Conditional Random Fields (CRFs) to model dependencies among regions for adjacent mentions.

516, TITLE: What You See is What You Get: Visual Pronoun Coreference Resolution in Dialogues
https://www.aclweb.org/anthology/D19-1516
AUTHORS: Xintong Yu, Hongming Zhang, Yangqiu Song, Yan Song, Changshui Zhang
HIGHLIGHT: To tackle this challenge, in this paper, we formally define the task of visual-aware pronoun coreference resolution (PCR) and introduce VisPro, a large-scale dialogue PCR dataset, to investigate whether and how the visual information can help resolve pronouns in dialogues.

517, TITLE: YouMakeup: A Large-Scale Domain-Specific Multimodal Dataset for Fine-Grained Semantic Comprehension
https://www.aclweb.org/anthology/D19-1517
AUTHORS: Weiying Wang, Yongcheng Wang, Shizhe Chen, Qin Jin
HIGHLIGHT: In this work, we introduce "YouMakeup", a large-scale multimodal instructional video dataset to support fine-grained semantic comprehension research in specific domain.

518, TITLE: DEBUG: A Dense Bottom-Up Grounding Approach for Natural Language Video Localization
https://www.aclweb.org/anthology/D19-1518
AUTHORS: Chujie Lu, Long Chen, Chilie Tan, Xiaolin Li, Jun Xiao
HIGHLIGHT: In this paper, we focus on natural language video localization: localizing (ie, grounding) a natural language description in a long and untrimmed video sequence.

519, TITLE: CrossWeigh: Training Named Entity Tagger from Imperfect Annotations
https://www.aclweb.org/anthology/D19-1519
AUTHORS: Zihan Wang, Jingbo Shang, Liyuan Liu, Lihao Lu, Jiacheng Liu, Jiawei Han
HIGHLIGHT: In this study, we dive deep into one of the widely-adopted NER benchmark datasets, CoNLL03 NER.

520, TITLE: A Little Annotation does a Lot of Good: A Study in Bootstrapping Low-resource Named Entity Recognizers
https://www.aclweb.org/anthology/D19-1520
AUTHORS: Aditi Chaudhary, Jiateng Xie, Zaid Sheikh, Graham Neubig, Jaime Carbonell
HIGHLIGHT: In this paper, we ask the question: given this recent progress, and some amount of human annotation, what is the most effective method for efficiently creating high-quality entity recognizers in under-resourced languages?

521, TITLE: Open Domain Web Keyphrase Extraction Beyond Language Modeling
https://www.aclweb.org/anthology/D19-1521

AUTHORS: Lee Xiong, Chuan Hu, Chenyan Xiong, Daniel Campos, Arnold Overwijk
HIGHLIGHT: To handle the variations of domain and content quality, we develop BLING-KPE, a neural keyphrase extraction model that goes beyond language understanding using visual presentations of documents and weak supervision from search queries.

522, TITLE: TuckER: Tensor Factorization for Knowledge Graph Completion
https://www.aclweb.org/anthology/D19-1522
AUTHORS: Ivana Balazevic, Carl Allen, Timothy Hospedales
HIGHLIGHT: We propose TuckER, a relatively straightforward but powerful linear model based on Tucker decomposition of the binary tensor representation of knowledge graph triples.

523, TITLE: Human-grounded Evaluations of Explanation Methods for Text Classification
https://www.aclweb.org/anthology/D19-1523
AUTHORS: Piyawat Lertvittayakumjorn, Francesca Toni
HIGHLIGHT: In this paper, we consider several model-agnostic and model-specific explanation methods for CNNs for text classification and conduct three human-grounded evaluations, focusing on different purposes of explanations: (1) revealing model behavior, (2) justifying model predictions, and (3) helping humans investigate uncertain predictions.

524, TITLE: A Context-based Framework for Modeling the Role and Function of On-line Resource Citations in Scientific Literature
https://www.aclweb.org/anthology/D19-1524
AUTHORS: He Zhao, Zhunchen Luo, Chong Feng, Anqing Zheng, Xiaopeng Liu
HIGHLIGHT: In this paper, we propose a possible solution by using a multi-task framework to build the scientific resource classifier (SciResCLF) for jointly recognizing the role and function types.

525, TITLE: Adversarial Reprogramming of Text Classification Neural Networks
https://www.aclweb.org/anthology/D19-1525
AUTHORS: Paarth Neekhara, Shehzeen Hussain, Shlomo Dubnov, Farinaz Koushanfar
HIGHLIGHT: In this work, we develop methods to repurpose text classification neural networks for alternate tasks without modifying the network architecture or parameters.

526, TITLE: Document Hashing with Mixture-Prior Generative Models
https://www.aclweb.org/anthology/D19-1526
AUTHORS: Wei Dong, Qinliang Su, Dinghan Shen, Changyou Chen
HIGHLIGHT: In this paper, two mixture-prior generative models are proposed, under the objective to produce high-quality hashing codes for documents.

527, TITLE: On Efficient Retrieval of Top Similarity Vectors
https://www.aclweb.org/anthology/D19-1527
AUTHORS: Shulong Tan, Zhixin Zhou, Zhaozhuo Xu, Ping Li
HIGHLIGHT: In this paper, we demonstrate an efficient method for searching vectors via a typical non-metric matching function: inner product.

528, TITLE: Multiplex Word Embeddings for Selectional Preference Acquisition
https://www.aclweb.org/anthology/D19-1528
AUTHORS: Hongming Zhang, Jiaxin Bai, Yan Song, Kun Xu, Changlong Yu, Yangqiu Song, Wilfred Ng, Dong Yu
HIGHLIGHT: Therefore, in this paper, we propose a multiplex word embedding model, which can be easily extended according to various relations among words.

529, TITLE: MulCode: A Multiplicative Multi-way Model for Compressing Neural Language Model
https://www.aclweb.org/anthology/D19-1529
AUTHORS: Yukun Ma, Patrick H. Chen, Cho-Jui Hsieh
HIGHLIGHT: To compress these embedding layers, we propose MulCode, a novel multi-way multiplicative neural compressor.

530, TITLE: It's All in the Name: Mitigating Gender Bias with Name-Based Counterfactual Data Substitution
https://www.aclweb.org/anthology/D19-1530
AUTHORS: Rowan Hall Maudslay, Hila Gonen, Ryan Cotterell, Simone Teufel
HIGHLIGHT: We propose two improvements to CDA: Counterfactual Data Substitution (CDS), a variant of CDA in which potentially biased text is randomly substituted to avoid duplication, and the Names Intervention, a novel name-pairing technique that vastly increases the number of words being treated.

531, TITLE: Examining Gender Bias in Languages with Grammatical Gender
https://www.aclweb.org/anthology/D19-1531
AUTHORS: Pei Zhou, Weijia Shi, Jieyu Zhao, Kuan-Hao Huang, Muhao Chen, Ryan Cotterell, Kai-Wei Chang
HIGHLIGHT: In this paper, we propose new metrics for evaluating gender bias in word embeddings of these languages and further demonstrate evidence of gender bias in bilingual embeddings which align these languages with English.

532, TITLE: Weakly Supervised Cross-lingual Semantic Relation Classification via Knowledge Distillation
https://www.aclweb.org/anthology/D19-1532
AUTHORS: Yogarshi Vyas, Marine Carpuat
HIGHLIGHT: We introduce a cross-lingual relation classifier trained only with English examples and a bilingual dictionary.

533, TITLE: Improved Word Sense Disambiguation Using Pre-Trained Contextualized Word Representations
https://www.aclweb.org/anthology/D19-1533
AUTHORS: Christian Hadiwinoto, Hwee Tou Ng, Wee Chung Gan
HIGHLIGHT: In this paper, we explore different strategies of integrating pre-trained contextualized word representations and our best strategy achieves accuracies exceeding the best prior published accuracies by significant margins on multiple benchmark WSD datasets.

534, TITLE: Do NLP Models Know Numbers? Probing Numeracy in Embeddings
https://www.aclweb.org/anthology/D19-1534
AUTHORS: Eric Wallace, Yizhong Wang, Sujian Li, Sameer Singh, Matt Gardner
HIGHLIGHT: We begin by investigating the numerical reasoning capabilities of a state-of-the-art question answering model on the DROP dataset. We find this model excels on questions that require numerical reasoning, i.e., it already captures numeracy.

535, TITLE: A Split-and-Recombine Approach for Follow-up Query Analysis
https://www.aclweb.org/anthology/D19-1535
AUTHORS: Qian Liu, Bei Chen, Haoyan Liu, Jian-Guang LOU, Lei Fang, Bin Zhou, Dongmei Zhang
HIGHLIGHT: To leverage the advances in context-independent semantic parsing, we propose to perform follow-up query analysis, aiming to restate context-dependent natural language queries with contextual information.

536, TITLE: Text2Math: End-to-end Parsing Text into Math Expressions
https://www.aclweb.org/anthology/D19-1536
AUTHORS: Yanyan Zou, Wei Lu
HIGHLIGHT: We propose Text2Math, a model for semantically parsing text into math expressions.

537, TITLE: Editing-Based SQL Query Generation for Cross-Domain Context-Dependent Questions
https://www.aclweb.org/anthology/D19-1537
AUTHORS: Rui Zhang, Tao Yu, Heyang Er, Sungrok Shim, Eric Xue, Xi Victoria Lin, Tianze Shi, Caiming Xiong, Richard Socher, Dragomir Radev
HIGHLIGHT: Based on the observation that adjacent natural language questions are often linguistically dependent and their corresponding SQL queries tend to overlap, we utilize the interaction history by editing the previous predicted query to improve the generation quality.

538, TITLE: Syntax-aware Multilingual Semantic Role Labeling
https://www.aclweb.org/anthology/D19-1538
AUTHORS: Shexia He, Zuchao Li, Hai Zhao
HIGHLIGHT: Unlike existing work, we propose a novel method guided by syntactic rule to prune arguments, which enables us to integrate syntax into multilingual SRL model simply and effectively.

539, TITLE: Cloze-driven Pretraining of Self-attention Networks
https://www.aclweb.org/anthology/D19-1539
AUTHORS: Alexei Baevski, Sergey Edunov, Yinhan Liu, Luke Zettlemoyer, Michael Auli
HIGHLIGHT: We present a new approach for pretraining a bi-directional transformer model that provides significant performance gains across a variety of language understanding problems.

540, TITLE: Bridging the Gap between Relevance Matching and Semantic Matching for Short Text Similarity Modeling
https://www.aclweb.org/anthology/D19-1540
AUTHORS: Jinfeng Rao, Linqing Liu, Yi Tay, Wei Yang, Peng Shi, Jimmy Lin
HIGHLIGHT: To bridge this gap, we propose a novel model, HCAN{\textasciitilde}(Hybrid Co-Attention Network), that comprises (1) a hybrid encoder module that includes ConvNet-based and LSTM-based encoders, (2) a relevance matching module that

measures soft term matches with importance weighting at multiple granularities, and (3) a semantic matching module with co-attention mechanisms that capture context-aware semantic relatedness.

541, TITLE: A Syntax-aware Multi-task Learning Framework for Chinese Semantic Role Labeling
https://www.aclweb.org/anthology/D19-1541
AUTHORS: Qingrong Xia, Zhenghua Li, Min Zhang
HIGHLIGHT: In this paper, we adopt a simple unified span-based model for both span-based and word-based Chinese SRL as a strong baseline.

542, TITLE: Transfer Fine-Tuning: A BERT Case Study
https://www.aclweb.org/anthology/D19-1542
AUTHORS: Yuki Arase, Jun'ichi Tsujii
HIGHLIGHT: Herein, we propose to inject phrasal paraphrase relations into BERT in order to generate suitable representations for semantic equivalence assessment instead of increasing the model size.

543, TITLE: Data-Anonymous Encoding for Text-to-SQL Generation
https://www.aclweb.org/anthology/D19-1543
AUTHORS: Zhen Dong, Shizhao Sun, Hongzhi Liu, Jian-Guang Lou, Dongmei Zhang
HIGHLIGHT: In this work, we propose a more efficient approach to handle table-related tokens before the semantic parser.

544, TITLE: Capturing Argument Interaction in Semantic Role Labeling with Capsule Networks
https://www.aclweb.org/anthology/D19-1544
AUTHORS: Xinchi Chen, Chunchuan Lyu, Ivan Titov
HIGHLIGHT: We propose a new approach to modeling these interactions while maintaining efficient inference.

545, TITLE: Learning Programmatic Idioms for Scalable Semantic Parsing
https://www.aclweb.org/anthology/D19-1545
AUTHORS: Srinivasan Iyer, Alvin Cheung, Luke Zettlemoyer
HIGHLIGHT: In this paper, we introduce an iterative method to extract code idioms from large source code corpora by repeatedly collapsing most-frequent depth-2 subtrees of their syntax trees, and train semantic parsers to apply these idioms during decoding.

546, TITLE: JuICe: A Large Scale Distantly Supervised Dataset for Open Domain Context-based Code Generation
https://www.aclweb.org/anthology/D19-1546
AUTHORS: Rajas Agashe, Srinivasan Iyer, Luke Zettlemoyer
HIGHLIGHT: To study code generation conditioned on a long context history, we present JuICe, a corpus of 1.5 million examples with a curated test set of 3.7K instances based on online programming assignments.

547, TITLE: Model-based Interactive Semantic Parsing: A Unified Framework and A Text-to-SQL Case Study
https://www.aclweb.org/anthology/D19-1547
AUTHORS: Ziyu Yao, Yu Su, Huan Sun, Wen-tau Yih
HIGHLIGHT: In this paper, we propose a new, unified formulation of the interactive semantic parsing problem, where the goal is to design a model-based intelligent agent.

548, TITLE: Modeling Graph Structure in Transformer for Better AMR-to-Text Generation
https://www.aclweb.org/anthology/D19-1548
AUTHORS: Jie Zhu, Junhui Li, Muhua Zhu, Longhua Qian, Min Zhang, Guodong Zhou
HIGHLIGHT: In this paper we eliminate such a strong limitation and propose a novel structure-aware self-attention approach to better model the relations between indirectly connected concepts in the state-of-the-art seq2seq model, i.e. the Transformer.

549, TITLE: Syntax-Aware Aspect Level Sentiment Classification with Graph Attention Networks
https://www.aclweb.org/anthology/D19-1549
AUTHORS: Binxuan Huang, Kathleen Carley
HIGHLIGHT: In this paper, we propose a novel target-dependent graph attention network (TD-GAT) for aspect level sentiment classification, which explicitly utilizes the dependency relationship among words.

550, TITLE: Learning Explicit and Implicit Structures for Targeted Sentiment Analysis
https://www.aclweb.org/anthology/D19-1550
AUTHORS: Hao Li, Wei Lu

HIGHLIGHT: In this work, we argue that both types of information (implicit and explicit structural information) are crucial for building a successful targeted sentiment analysis model.

551, TITLE: Capsule Network with Interactive Attention for Aspect-Level Sentiment Classification
https://www.aclweb.org/anthology/D19-1551
AUTHORS: Chunning Du, Haifeng Sun, Jingyu Wang, Qi Qi, Jianxin Liao, Tong Xu, Ming Liu
HIGHLIGHT: To solve this problem, we propose to utilize capsule network to construct vector-based feature representation and cluster features by an EM routing algorithm.

552, TITLE: Emotion Detection with Neural Personal Discrimination
https://www.aclweb.org/anthology/D19-1552
AUTHORS: Xiabing Zhou, Zhongqing Wang, Shoushan Li, Guodong Zhou, Min Zhang
HIGHLIGHT: Accordingly, we propose a Neural Personal Discrimination (NPD) approach to address above challenges by determining personal attributes from posts, and connecting relevant posts with similar attributes to jointly learn their emotions.

553, TITLE: Specificity-Driven Cascading Approach for Unsupervised Sentiment Modification
https://www.aclweb.org/anthology/D19-1553
AUTHORS: Pengcheng Yang, Junyang Lin, Jingjing Xu, Jun Xie, Qi Su, Xu SUN
HIGHLIGHT: To remedy this, we propose a specificity-driven cascading approach in this work, which can effectively increase the specificity of the generated text and further improve content preservation.

554, TITLE: LexicalAT: Lexical-Based Adversarial Reinforcement Training for Robust Sentiment Classification
https://www.aclweb.org/anthology/D19-1554
AUTHORS: Jingjing Xu, Liang Zhao, Hanqi Yan, Qi Zeng, Yun Liang, Xu SUN
HIGHLIGHT: In this work, we propose a novel adversarial training approach, LexicalAT, to improve the robustness of current classification models.

555, TITLE: Leveraging Structural and Semantic Correspondence for Attribute-Oriented Aspect Sentiment Discovery
https://www.aclweb.org/anthology/D19-1555
AUTHORS: Zhe Zhang, Munindar Singh
HIGHLIGHT: We propose Trait, an unsupervised probabilistic model that discovers aspects and sentiments from text and associates them with different attributes.

556, TITLE: From the Token to the Review: A Hierarchical Multimodal approach to Opinion Mining
https://www.aclweb.org/anthology/D19-1556
AUTHORS: Alexandre Garcia, Pierre Colombo, Florence d'Alché-Buc, Slim Essid, Chloé Clavel
HIGHLIGHT: In this work we aim at bridging the gap separating fine grained opinion models already developed for written language and coarse grained models developed for spontaneous multimodal opinion mining.

557, TITLE: Shallow Domain Adaptive Embeddings for Sentiment Analysis
https://www.aclweb.org/anthology/D19-1557
AUTHORS: Prathusha K Sarma, Yingyu Liang, William Sethares
HIGHLIGHT: This paper proposes a way to improve the performance of existing algorithms for text classification in domains with strong language semantics.

558, TITLE: Domain-Invariant Feature Distillation for Cross-Domain Sentiment Classification
https://www.aclweb.org/anthology/D19-1558
AUTHORS: Mengting Hu, Yike Wu, Shiwan Zhao, Honglei Guo, Renhong Cheng, Zhong Su
HIGHLIGHT: In this paper, we focus on aspect-level cross-domain sentiment classification, and propose to distill the domain-invariant sentiment features with the help of an orthogonal domain-dependent task, i.e. aspect detection, which is built on the aspects varying widely in different domains.

559, TITLE: A Novel Aspect-Guided Deep Transition Model for Aspect Based Sentiment Analysis
https://www.aclweb.org/anthology/D19-1559
AUTHORS: Yunlong Liang, Fandong Meng, Jinchao Zhang, Jinan Xu, Yufeng Chen, Jie Zhou
HIGHLIGHT: In this paper, we propose a novel Aspect-Guided Deep Transition model, named AGDT, which utilizes the given aspect to guide the sentence encoding from scratch with the specially-designed deep transition architecture.

560, TITLE: Human-Like Decision Making: Document-level Aspect Sentiment Classification via Hierarchical Reinforcement Learning

https://www.aclweb.org/anthology/D19-1560
AUTHORS: Jingjing Wang, Changlong Sun, Shoushan Li, Jiancheng Wang, Luo Si, Min Zhang, Xiaozhong Liu, Guodong Zhou
HIGHLIGHT: In this paper, to simulating the steps of analyzing aspect sentiment in a document by human beings, we propose a new Hierarchical Reinforcement Learning (HRL) approach to DASC.

561, TITLE: A Dataset of General-Purpose Rebuttal
https://www.aclweb.org/anthology/D19-1561
AUTHORS: Matan Orbach, Yonatan Bilu, Ariel Gera, Yoav Kantor, Lena Dankin, Tamar Lavee, Lili Kotlerman, Shachar Mirkin, Michal Jacovi, Ranit Aharonov, Noam Slonim
HIGHLIGHT: Here we present a novel task of producing a critical response to a long argumentative text, and suggest a method based on general rebuttal arguments to address it.

562, TITLE: Rethinking Attribute Representation and Injection for Sentiment Classification
https://www.aclweb.org/anthology/D19-1562
AUTHORS: Reinald Kim Amplayo
HIGHLIGHT: The de facto standard method is to incorporate them as additional biases in the attention mechanism, and more performance gains are achieved by extending the model architecture. In this paper, we show that the above method is the least effective way to represent and inject attributes.

563, TITLE: A Knowledge Regularized Hierarchical Approach for Emotion Cause Analysis
https://www.aclweb.org/anthology/D19-1563
AUTHORS: Chuang Fan, Hongyu Yan, Jiachen Du, Lin Gui, Lidong Bing, Min Yang, Ruifeng Xu, Ruibin Mao
HIGHLIGHT: In this paper, we propose a new method to extract emotion cause with a hierarchical neural model and knowledge-based regularizations, which aims to incorporate discourse context information and restrain the parameters by sentiment lexicon and common knowledge.

564, TITLE: Automatic Argument Quality Assessment - New Datasets and Methods
https://www.aclweb.org/anthology/D19-1564
AUTHORS: Assaf Toledo, Shai Gretz, Edo Cohen-Karlik, Roni Friedman, Elad Venezian, Dan Lahav, Michal Jacovi, Ranit Aharonov, Noam Slonim
HIGHLIGHT: We explore the task of automatic assessment of argument quality.

565, TITLE: Fine-Grained Analysis of Propaganda in News Article
https://www.aclweb.org/anthology/D19-1565
AUTHORS: Giovanni Da San Martino, Seunghak Yu, Alberto Barrón-Cedeño, Rostislav Petrov, Preslav Nakov
HIGHLIGHT: To overcome these limitations, we propose a novel task: performing fine-grained analysis of texts by detecting all fragments that contain propaganda techniques as well as their type.

566, TITLE: Context-aware Interactive Attention for Multi-modal Sentiment and Emotion Analysis
https://www.aclweb.org/anthology/D19-1566
AUTHORS: Dushyant Singh Chauhan, Md Shad Akhtar, Asif Ekbal, Pushpak Bhattacharyya
HIGHLIGHT: In this paper, we introduce a recurrent neural network based approach for the multi-modal sentiment and emotion analysis. The proposed model learns the inter-modal interaction among the participating modalities through an auto-encoder mechanism.

567, TITLE: Sequential Learning of Convolutional Features for Effective Text Classification
https://www.aclweb.org/anthology/D19-1567
AUTHORS: Avinash Madasu, Vijjini Anvesh Rao
HIGHLIGHT: In this paper, we present an experimental study on the fundamental blocks of CNNs in text categorization.

568, TITLE: The Role of Pragmatic and Discourse Context in Determining Argument Impact
https://www.aclweb.org/anthology/D19-1568
AUTHORS: Esin Durmus, Faisal Ladhak, Claire Cardie
HIGHLIGHT: This paper presents a new dataset to initiate the study of this aspect of argumentation: it consists of a diverse collection of arguments covering 741 controversial topics and comprising over 47,000 claims.

569, TITLE: Aspect-Level Sentiment Analysis Via Convolution over Dependency Tree
https://www.aclweb.org/anthology/D19-1569
AUTHORS: Kai Sun, Richong Zhang, Samuel Mensah, Yongyi Mao, Xudong Liu

HIGHLIGHT: We propose a method based on neural networks to identify the sentiment polarity of opinion words expressed on a specific aspect of a sentence.

570, TITLE: Understanding Data Augmentation in Neural Machine Translation: Two Perspectives towards Generalization
https://www.aclweb.org/anthology/D19-1570
AUTHORS: Guanlin Li, Lemao Liu, Guoping Huang, Conghui Zhu, Tiejun Zhao
HIGHLIGHT: Based on the observation, this paper makes an initial attempt to answer a fundamental question: what benefits, which are consistent across different methods and tasks, does DA in general obtain?

571, TITLE: Simple and Effective Noisy Channel Modeling for Neural Machine Translation
https://www.aclweb.org/anthology/D19-1571
AUTHORS: Kyra Yee, Yann Dauphin, Michael Auli
HIGHLIGHT: We pursue an alternative approach based on standard sequence to sequence models which utilize the entire source.

572, TITLE: MultiFiT: Efficient Multi-lingual Language Model Fine-tuning
https://www.aclweb.org/anthology/D19-1572
AUTHORS: Julian Eisenschlos, Sebastian Ruder, Piotr Czapla, Marcin Kadras, Sylvain Gugger, Jeremy Howard
HIGHLIGHT: We propose Multi-lingual language model Fine-Tuning (MultiFiT) to enable practitioners to train and fine-tune language models efficiently in their own language.

573, TITLE: Hint-Based Training for Non-Autoregressive Machine Translation
https://www.aclweb.org/anthology/D19-1573
AUTHORS: Zhuohan Li, Zi Lin, Di He, Fei Tian, Tao QIN, Liwei WANG, Tie-Yan Liu
HIGHLIGHT: In this paper, we proposed a novel approach to leveraging the hints from hidden states and word alignments to help the training of NART models.

574, TITLE: Working Hard or Hardly Working: Challenges of Integrating Typology into Neural Dependency Parsers
https://www.aclweb.org/anthology/D19-1574
AUTHORS: Adam Fisch, Jiang Guo, Regina Barzilay
HIGHLIGHT: This paper explores the task of leveraging typology in the context of cross-lingual dependency parsing.

575, TITLE: Cross-Lingual BERT Transformation for Zero-Shot Dependency Parsing
https://www.aclweb.org/anthology/D19-1575
AUTHORS: Yuxuan Wang, Wanxiang Che, Jiang Guo, Yijia Liu, Ting Liu
HIGHLIGHT: We propose Cross-Lingual BERT Transformation (CLBT), a simple and efficient approach to generate cross-lingual contextualized word embeddings based on publicly available pre-trained BERT models (Devlin et al., 2018).

576, TITLE: Multilingual Grammar Induction with Continuous Language Identification
https://www.aclweb.org/anthology/D19-1576
AUTHORS: Wenjuan Han, Ge Wang, Yong Jiang, Kewei Tu
HIGHLIGHT: In this work, we propose a novel universal grammar induction approach that represents language identities with continuous vectors and employs a neural network to predict grammar parameters based on the representation.

577, TITLE: Quantifying the Semantic Core of Gender Systems
https://www.aclweb.org/anthology/D19-1577
AUTHORS: Adina Williams, Damian Blasi, Lawrence Wolf-Sonkin, Hanna Wallach, Ryan Cotterell
HIGHLIGHT: In this work, we present the first large-scale investigation of the arbitrariness of gender assignment that uses canonical correlation analysis as a method for correlating the gender of inanimate nouns with their lexical semantic meaning.

578, TITLE: Perturbation Sensitivity Analysis to Detect Unintended Model Biases
https://www.aclweb.org/anthology/D19-1578
AUTHORS: Vinodkumar Prabhakaran, Ben Hutchinson, Margaret Mitchell
HIGHLIGHT: Based on this idea, we propose a generic evaluation framework, Perturbation Sensitivity Analysis, which detects unintended model biases related to named entities, and requires no new annotations or corpora.

579, TITLE: Automatically Inferring Gender Associations from Language
https://www.aclweb.org/anthology/D19-1579
AUTHORS: Serina Chang, Kathy McKeown

HIGHLIGHT: In this paper, we pose the question: do people talk about women and men in different ways? We introduce two datasets and a novel integration of approaches for automatically inferring gender associations from language, discovering coherent word clusters, and labeling the clusters for the semantic concepts they represent.

580, TITLE: Reporting the Unreported: Event Extraction for Analyzing the Local Representation of Hate Crimes
https://www.aclweb.org/anthology/D19-1580
AUTHORS: Aida Mostafazadeh Davani, Leigh Yeh, Mohammad Atari, Brendan Kennedy, Gwenyth Portillo Wightman, Elaine Gonzalez, Natalie Delong, Rhea Bhatia, Arineh Mirinjian, Xiang Ren, Morteza Dehghani
HIGHLIGHT: Here, we first demonstrate that event extraction and multi-instance learning, applied to a corpus of local news articles, can be used to predict instances of hate crime. We then use the trained model to detect incidents of hate in cities for which the FBI lacks statistics.

581, TITLE: Minimally Supervised Learning of Affective Events Using Discourse Relations
https://www.aclweb.org/anthology/D19-1581
AUTHORS: Jun Saito, Yugo Murawaki, Sadao Kurohashi
HIGHLIGHT: In this paper, we propose to propagate affective polarity using discourse relations.

582, TITLE: Event Detection with Multi-Order Graph Convolution and Aggregated Attention
https://www.aclweb.org/anthology/D19-1582
AUTHORS: Haoran Yan, Xiaolong Jin, Xiangbin Meng, Jiafeng Guo, Xueqi Cheng
HIGHLIGHT: For this reason, this paper proposes a new method for event detection, which uses a dependency tree based graph convolution network with aggregative attention to explicitly model and aggregate multi-order syntactic representations in sentences.

583, TITLE: Coverage of Information Extraction from Sentences and Paragraphs
https://www.aclweb.org/anthology/D19-1583
AUTHORS: Simon Razniewski, Nitisha Jain, Paramita Mirza, Gerhard Weikum
HIGHLIGHT: In this paper we discuss the importance of scalar implicatures in the context of textual information extraction.

584, TITLE: HMEAE: Hierarchical Modular Event Argument Extraction
https://www.aclweb.org/anthology/D19-1584
AUTHORS: Xiaozhi Wang, Ziqi Wang, Xu Han, Zhiyuan Liu, Juanzi Li, Peng Li, Maosong Sun, Jie Zhou, Xiang Ren
HIGHLIGHT: In this paper, we propose a Hierarchical Modular Event Argument Extraction (HMEAE) model, to provide effective inductive bias from the concept hierarchy of event argument roles.

585, TITLE: Entity, Relation, and Event Extraction with Contextualized Span Representations
https://www.aclweb.org/anthology/D19-1585
AUTHORS: David Wadden, Ulme Wennberg, Yi Luan, Hannaneh Hajishirzi
HIGHLIGHT: We examine the capabilities of a unified, multi-task framework for three information extraction tasks: named entity recognition, relation extraction, and event extraction.

586, TITLE: Next Sentence Prediction helps Implicit Discourse Relation Classification within and across Domains
https://www.aclweb.org/anthology/D19-1586
AUTHORS: Wei Shi, Vera Demberg
HIGHLIGHT: We here show that this shortcoming can be effectively addressed by using the bidirectional encoder representation from transformers (BERT) proposed by Devlin et al. (2019), which were trained on a next-sentence prediction task, and thus encode a representation of likely next sentences.

587, TITLE: Split or Merge: Which is Better for Unsupervised RST Parsing?
https://www.aclweb.org/anthology/D19-1587
AUTHORS: Naoki Kobayashi, Tsutomu Hirao, Kengo Nakamura, Hidetaka Kamigaito, Manabu Okumura, Masaaki Nagata
HIGHLIGHT: In this paper, we present two language-independent unsupervised RST parsing methods based on dynamic programming.

588, TITLE: BERT for Coreference Resolution: Baselines and Analysis
https://www.aclweb.org/anthology/D19-1588
AUTHORS: Mandar Joshi, Omer Levy, Luke Zettlemoyer, Daniel Weld
HIGHLIGHT: We apply BERT to coreference resolution, achieving a new state of the art on the GAP (+11.5 F1) and OntoNotes (+3.9 F1) benchmarks.

589, TITLE: Linguistic Versus Latent Relations for Modeling Coherent Flow in Paragraphs
https://www.aclweb.org/anthology/D19-1589
AUTHORS: Dongyeop Kang, Eduard Hovy
HIGHLIGHT: In order to produce a coherent flow of text, we explore two forms of intersentential relations in a paragraph: one is a human-created linguistical relation that forms a structure (e.g., discourse tree) and the other is a relation from latent representation learned from the sentences themselves.

590, TITLE: Event Causality Recognition Exploiting Multiple Annotators' Judgments and Background Knowledge
https://www.aclweb.org/anthology/D19-1590
AUTHORS: Kazuma Kadowaki, Ryu Iida, Kentaro Torisawa, Jong-Hoon Oh, Julien Kloetzer
HIGHLIGHT: We propose new BERT-based methods for recognizing event causality such as "smoke cigarettes" -- {\textgreater} "die of lung cancer" written in web texts.

591, TITLE: What Part of the Neural Network Does This? Understanding LSTMs by Measuring and Dissecting Neurons
https://www.aclweb.org/anthology/D19-1591
AUTHORS: Ji Xin, Jimmy Lin, Yaoliang Yu
HIGHLIGHT: We find inspiration from biologists and study the affinity between individual neurons and labels, propose a novel metric to quantify the sensitivity of neurons to each label, and conduct experiments to show the validity of our proposed metric.

592, TITLE: Quantity doesn't buy quality syntax with neural language models
https://www.aclweb.org/anthology/D19-1592
AUTHORS: Marten van Schijndel, Aaron Mueller, Tal Linzen
HIGHLIGHT: We investigate to what extent these shortcomings can be mitigated by increasing the size of the network and the corpus on which it is trained.

593, TITLE: Higher-order Comparisons of Sentence Encoder Representations
https://www.aclweb.org/anthology/D19-1593
AUTHORS: Mostafa Abdou, Artur Kulmizev, Felix Hill, Daniel M. Low, Anders Søgaard
HIGHLIGHT: We demonstrate the utility of RSA by establishing a previously unknown correspondence between widely-employed pretrained language encoders and human processing difficulty via eye-tracking data, showcasing its potential in the interpretability toolbox for neural models.

594, TITLE: Text Genre and Training Data Size in Human-like Parsing
https://www.aclweb.org/anthology/D19-1594
AUTHORS: John Hale, Adhiguna Kuncoro, Keith Hall, Chris Dyer, Jonathan Brennan
HIGHLIGHT: Domain-specific training typically makes NLP systems work better. We show that this extends to cognitive modeling as well by relating the states of a neural phrase-structure parser to electrophysiological measures from human participants.

595, TITLE: Feature2Vec: Distributional semantic modelling of human property knowledge
https://www.aclweb.org/anthology/D19-1595
AUTHORS: Steven Derby, Paul Miller, Barry Devereux
HIGHLIGHT: We propose a method for mapping human property knowledge onto a distributional semantic space, which adapts the word2vec architecture to the task of modelling concept features.

596, TITLE: Sunny and Dark Outside?! Improving Answer Consistency in VQA through Entailed Question Generation
https://www.aclweb.org/anthology/D19-1596
AUTHORS: Arijit Ray, Karan Sikka, Ajay Divakaran, Stefan Lee, Giedrius Burachas
HIGHLIGHT: In this work, we introduce a dataset, ConVQA, and metrics that enable quantitative evaluation of consistency in VQA. Further, we propose a consistency-improving data augmentation module, a Consistency Teacher Module (CTM).

597, TITLE: GeoSQA: A Benchmark for Scenario-based Question Answering in the Geography Domain at High School Level
https://www.aclweb.org/anthology/D19-1597
AUTHORS: Zixian Huang, Yulin Shen, Xiao Li, Yu'ang Wei, Gong Cheng, Lin Zhou, Xinyu Dai, Yuzhong Qu
HIGHLIGHT: In this paper, we introduce the GeoSQA dataset.

598, TITLE: Revisiting the Evaluation of Theory of Mind through Question Answering
https://www.aclweb.org/anthology/D19-1598
AUTHORS: Matthew Le, Y-Lan Boureau, Maximilian Nickel
HIGHLIGHT: In this work, we revisit the evaluation of theory of mind through question answering.

599, TITLE: Multi-passage BERT: A Globally Normalized BERT Model for Open-domain Question Answering
https://www.aclweb.org/anthology/D19-1599
AUTHORS: Zhiguo Wang, Patrick Ng, Xiaofei Ma, Ramesh Nallapati, Bing Xiang
HIGHLIGHT: To tackle this issue, we propose a multi-passage BERT model to globally normalize answer scores across all passages of the same question, and this change enables our QA model find better answers by utilizing more passages.

600, TITLE: A Span-Extraction Dataset for Chinese Machine Reading Comprehension
https://www.aclweb.org/anthology/D19-1600
AUTHORS: Yiming Cui, Ting Liu, Wanxiang Che, Li Xiao, Zhipeng Chen, Wentao Ma, Shijin Wang, Guoping Hu
HIGHLIGHT: In this paper, we introduce a Span-Extraction dataset for Chinese machine reading comprehension to add language diversities in this area.

601, TITLE: MICRON: Multigranular Interaction for Contextualizing RepresentatiON in Non-factoid Question Answering
https://www.aclweb.org/anthology/D19-1601
AUTHORS: Hojae Han, Seungtaek Choi, Haeju Park, Seung-won Hwang
HIGHLIGHT: Specifically, we propose MICRON: Multigranular Interaction for Contextualizing RepresentatiON, a novel approach which derives contextualized uni-gram representation from n-grams.

602, TITLE: Machine Reading Comprehension Using Structural Knowledge Graph-aware Network
https://www.aclweb.org/anthology/D19-1602
AUTHORS: Delai Qiu, Yuanzhe Zhang, Xinwei Feng, Xiangwen Liao, Wenbin Jiang, Yajuan Lyu, Kang Liu, Jun Zhao
HIGHLIGHT: To this end, we propose a Structural Knowledge Graph-aware Network(SKG) model, constructing sub-graphs for entities in the machine comprehension context.

603, TITLE: Answering Conversational Questions on Structured Data without Logical Forms
https://www.aclweb.org/anthology/D19-1603
AUTHORS: Thomas Mueller, Francesco Piccinno, Peter Shaw, Massimo Nicosia, Yasemin Altun
HIGHLIGHT: We present a novel approach to answering sequential questions based on structured objects such as knowledge bases or tables without using a logical form as an intermediate representation.

604, TITLE: Improving Answer Selection and Answer Triggering using Hard Negatives
https://www.aclweb.org/anthology/D19-1604
AUTHORS: Sawan Kumar, shweta garg, Kartik Mehta, Nikhil Rasiwasia
HIGHLIGHT: In this paper, we establish the effectiveness of using hard negatives, coupled with a siamese network and a suitable loss function, for the tasks of answer selection and answer triggering.

605, TITLE: Can You Unpack That? Learning to Rewrite Questions-in-Context
https://www.aclweb.org/anthology/D19-1605
AUTHORS: Ahmed Elgohary, Denis Peskov, Jordan Boyd-Graber
HIGHLIGHT: We introduce the task of question-in-context rewriting: given the context of a conversation's history, rewrite a context-dependent into a self-contained question with the same answer.

606, TITLE: Quoref: A Reading Comprehension Dataset with Questions Requiring Coreferential Reasoning
https://www.aclweb.org/anthology/D19-1606
AUTHORS: Pradeep Dasigi, Nelson F. Liu, Ana Marasovic, Noah A. Smith, Matt Gardner
HIGHLIGHT: We present a new crowdsourced dataset containing more than 24K span-selection questions that require resolving coreference among entities in over 4.7K English paragraphs from Wikipedia.

607, TITLE: Zero-shot Reading Comprehension by Cross-lingual Transfer Learning with Multi-lingual Language Representation Model
https://www.aclweb.org/anthology/D19-1607
AUTHORS: Tsung-Yuan Hsu, Chi-Liang Liu, Hung-yi Lee
HIGHLIGHT: In this paper, we systematically explore zero-shot cross-lingual transfer learning on reading comprehension tasks with language representation model pre-trained on multi-lingual corpus.

608, TITLE: QuaRTz: An Open-Domain Dataset of Qualitative Relationship Questions
https://www.aclweb.org/anthology/D19-1608
AUTHORS: Oyvind Tafjord, Matt Gardner, Kevin Lin, Peter Clark
HIGHLIGHT: We introduce the first open-domain dataset, called QuaRTz, for reasoning about textual qualitative relationships.

609, TITLE: Giving BERT a Calculator: Finding Operations and Arguments with Reading Comprehension
https://www.aclweb.org/anthology/D19-1609
AUTHORS: Daniel Andor, Luheng He, Kenton Lee, Emily Pitler
HIGHLIGHT: We enable a BERT-based reading comprehension model to perform lightweight numerical reasoning.

610, TITLE: A Gated Self-attention Memory Network for Answer Selection
https://www.aclweb.org/anthology/D19-1610
AUTHORS: Tuan Lai, Quan Hung Tran, Trung Bui, Daisuke Kihara
HIGHLIGHT: In this work, we take a departure from the popular Compare-Aggregate architecture, and instead, propose a new gated self-attention memory network for the task.

611, TITLE: Polly Want a Cracker: Analyzing Performance of Parroting on Paraphrase Generation Datasets
https://www.aclweb.org/anthology/D19-1611
AUTHORS: Hong-Ren Mao, Hung-Yi Lee
HIGHLIGHT: In this paper, we analyze datasets commonly used for paraphrase generation research, and show that simply parroting input sentences surpasses state-of-the-art models in the literature when evaluated on standard metrics.

612, TITLE: Query-focused Sentence Compression in Linear Time
https://www.aclweb.org/anthology/D19-1612
AUTHORS: Abram Handler, Brendan O'Connor
HIGHLIGHT: This work introduces a new transition-based sentence compression technique developed for such settings.

613, TITLE: Generating Personalized Recipes from Historical User Preferences
https://www.aclweb.org/anthology/D19-1613
AUTHORS: Bodhisattwa Prasad Majumder, Shuyang Li, Jianmo Ni, Julian McAuley
HIGHLIGHT: We propose a new task of personalized recipe generation to help these users: expanding a name and incomplete ingredient details into complete natural-text instructions aligned with the user's historical preferences.

614, TITLE: Generating Highly Relevant Questions
https://www.aclweb.org/anthology/D19-1614
AUTHORS: Jiazuo Qiu, Deyi Xiong
HIGHLIGHT: The neural seq2seq based question generation (QG) is prone to generating generic and undiversified questions that are poorly relevant to the given passage and target answer. In this paper, we propose two methods to address the issue.

615, TITLE: Improving Neural Story Generation by Targeted Common Sense Grounding
https://www.aclweb.org/anthology/D19-1615
AUTHORS: Huanru Henry Mao, Bodhisattwa Prasad Majumder, Julian McAuley, Garrison Cottrell
HIGHLIGHT: We propose a simple multi-task learning scheme to achieve quantitatively better common sense reasoning in language models by leveraging auxiliary training signals from datasets designed to provide common sense grounding.

616, TITLE: Abstract Text Summarization: A Low Resource Challenge
https://www.aclweb.org/anthology/D19-1616
AUTHORS: Shantipriya Parida, Petr Motlicek
HIGHLIGHT: We propose an iterative data augmentation approach which uses synthetic data along with the real summarization data for the German language.

617, TITLE: Generating Modern Poetry Automatically in Finnish
https://www.aclweb.org/anthology/D19-1617
AUTHORS: Mika Hämäläinen, Khalid Alnajjar
HIGHLIGHT: We present a novel approach for generating poetry automatically for the morphologically rich Finnish language by using a genetic algorithm.

618, TITLE: SUM-QE: a BERT-based Summary Quality Estimation Model
https://www.aclweb.org/anthology/D19-1618
AUTHORS: Stratos Xenouleas, Prodromos Malakasiotis, Marianna Apidianaki, Ion Androutsopoulos
HIGHLIGHT: We propose SUM-QE, a novel Quality Estimation model for summarization based on BERT.

619, TITLE: An Empirical Comparison on Imitation Learning and Reinforcement Learning for Paraphrase Generation

https://www.aclweb.org/anthology/D19-1619
AUTHORS: Wanyu Du, Yangfeng Ji
HIGHLIGHT: In this work, we present an empirical study on how RL and IL can help boost the performance of generating paraphrases, with the pointer-generator as a base model.

620, TITLE: Countering the Effects of Lead Bias in News Summarization via Multi-Stage Training and Auxiliary Losses
https://www.aclweb.org/anthology/D19-1620
AUTHORS: Matt Grenander, Yue Dong, Jackie Chi Kit Cheung, Annie Louis
HIGHLIGHT: We propose two techniques to make systems sensitive to the importance of content in different parts of the article.

621, TITLE: Learning Rhyming Constraints using Structured Adversaries
https://www.aclweb.org/anthology/D19-1621
AUTHORS: Harsh Jhamtani, Sanket Vaibhav Mehta, Jaime Carbonell, Taylor Berg-Kirkpatrick
HIGHLIGHT: We propose an alternate approach that uses a structured discriminator to learn a poetry generator that directly captures rhyming constraints in a generative adversarial setup.

622, TITLE: Question-type Driven Question Generation
https://www.aclweb.org/anthology/D19-1622
AUTHORS: Wenjie Zhou, Minghua Zhang, Yunfang Wu
HIGHLIGHT: We propose to automatically predict the question type based on the input answer and context.

623, TITLE: Deep Reinforcement Learning with Distributional Semantic Rewards for Abstractive Summarization
https://www.aclweb.org/anthology/D19-1623
AUTHORS: Siyao Li, Deren Lei, Pengda Qin, William Yang Wang
HIGHLIGHT: In this paper, instead of Rouge-L, we explore the practicability of utilizing the distributional semantics to measure the matching degrees.

624, TITLE: Clause-Wise and Recursive Decoding for Complex and Cross-Domain Text-to-SQL Generation
https://www.aclweb.org/anthology/D19-1624
AUTHORS: Dongjun Lee
HIGHLIGHT: In this paper, we propose a SQL clause-wise decoding neural architecture with a self-attention based database schema encoder to address the Spider task.

625, TITLE: Do Nuclear Submarines Have Nuclear Captains? A Challenge Dataset for Commonsense Reasoning over Adjectives and Objects
https://www.aclweb.org/anthology/D19-1625
AUTHORS: James Mullenbach, Jonathan Gordon, Nanyun Peng, Jonathan May
HIGHLIGHT: To attack this challenge, we crowdsource a set of human judgments that answer the English-language question "Given a whole described by an adjective, does the adjective also describe a given part?"

626, TITLE: Aggregating Bidirectional Encoder Representations Using MatchLSTM for Sequence Matching
https://www.aclweb.org/anthology/D19-1626
AUTHORS: Bo Shao, Yeyun Gong, Weizhen Qi, Nan Duan, Xiaola Lin
HIGHLIGHT: In this work, we propose an aggregation method to combine the Bidirectional Encoder Representations from Transformer (BERT) with a MatchLSTM layer for Sequence Matching.

627, TITLE: What Does This Word Mean? Explaining Contextualized Embeddings with Natural Language Definition
https://www.aclweb.org/anthology/D19-1627
AUTHORS: Ting-Yun Chang, Yun-Nung Chen
HIGHLIGHT: To further investigate what contextualized word embeddings capture, this paper analyzes whether they can indicate the corresponding sense definitions and proposes a general framework that is capable of explaining word meanings given contextualized word embeddings for better interpretation.

628, TITLE: Pre-Training BERT on Domain Resources for Short Answer Grading
https://www.aclweb.org/anthology/D19-1628
AUTHORS: Chul Sung, Tejas Dhamecha, Swarnadeep Saha, Tengfei Ma, Vinay Reddy, Rishi Arora
HIGHLIGHT: In this paper, we explore ways of improving the pre-trained contextual representations for the task of automatic short answer grading, a critical component of intelligent tutoring systems.

629, TITLE: WIQA: A dataset for ``What if..." reasoning over procedural text
https://www.aclweb.org/anthology/D19-1629
AUTHORS: Niket Tandon, Bhavana Dalvi, Keisuke Sakaguchi, Peter Clark, Antoine Bosselut
HIGHLIGHT: We introduce WIQA, the first large-scale dataset of "What if..." questions over procedural text.

630, TITLE: Evaluating BERT for natural language inference: A case study on the CommitmentBank
https://www.aclweb.org/anthology/D19-1630
AUTHORS: Nanjiang Jiang, Marie-Catherine de Marneffe
HIGHLIGHT: We address this problem by recasting the CommitmentBank for NLI, which contains items involving reasoning over the extent to which a speaker is committed to complements of clause-embedding verbs under entailment-canceling environments (conditional, negation, modal and question).

631, TITLE: Incorporating Domain Knowledge into Medical NLI using Knowledge Graphs
https://www.aclweb.org/anthology/D19-1631
AUTHORS: Soumya Sharma, Bishal Santra, Abhik Jana, Santosh Tokala, Niloy Ganguly, Pawan Goyal
HIGHLIGHT: In this paper, we explore how to incorporate structured domain knowledge, available in the form of a knowledge graph (UMLS), for the Medical NLI task.

632, TITLE: The FLORES Evaluation Datasets for Low-Resource Machine Translation: Nepali--English and Sinhala--English
https://www.aclweb.org/anthology/D19-1632
AUTHORS: Francisco Guzmán, Peng-Jen Chen, Myle Ott, Juan Pino, Guillaume Lample, Philipp Koehn, Vishrav Chaudhary, Marc'Aurelio Ranzato
HIGHLIGHT: In this work, we introduce the FLORES evaluation datasets for Nepali-English and Sinhala- English, based on sentences translated from Wikipedia.

633, TITLE: Mask-Predict: Parallel Decoding of Conditional Masked Language Models
https://www.aclweb.org/anthology/D19-1633
AUTHORS: Marjan Ghazvininejad, Omer Levy, Yinhan Liu, Luke Zettlemoyer
HIGHLIGHT: We, instead, use a masked language modeling objective to train a model to predict any subset of the target words, conditioned on both the input text and a partially masked target translation.

634, TITLE: Learning to Copy for Automatic Post-Editing
https://www.aclweb.org/anthology/D19-1634
AUTHORS: Xuancheng Huang, Yang Liu, Huanbo Luan, Jingfang Xu, Maosong Sun
HIGHLIGHT: In this work, we propose a new method for modeling copying for APE.

635, TITLE: Exploring Human Gender Stereotypes with Word Association Test
https://www.aclweb.org/anthology/D19-1635
AUTHORS: Yupei Du, Yuanbin Wu, Man Lan
HIGHLIGHT: In this work, we utilize word association test, which contains rich types of word connections annotated by human participants, to explore how gender stereotypes spread within our minds.

636, TITLE: A Modular Architecture for Unsupervised Sarcasm Generation
https://www.aclweb.org/anthology/D19-1636
AUTHORS: Abhijit Mishra, Tarun Tater, Karthik Sankaranarayanan
HIGHLIGHT: In this paper, we propose a novel framework for sarcasm generation; the system takes a literal negative opinion as input and translates it into a sarcastic version.

637, TITLE: Generating Classical Chinese Poems from Vernacular Chinese
https://www.aclweb.org/anthology/D19-1637
AUTHORS: Zhichao Yang, Pengshan Cai, Yansong Feng, Fei Li, Weijiang Feng, Elena Suet-Ying Chiu, hong yu
HIGHLIGHT: In this paper, we propose a novel task of generating classical Chinese poems from vernacular, which allows users to have more control over the semantic of generated poems.

638, TITLE: Set to Ordered Text: Generating Discharge Instructions from Medical Billing Codes
https://www.aclweb.org/anthology/D19-1638
AUTHORS: Litton J Kurisinkel, Nancy Chen
HIGHLIGHT: We present set to ordered text, a natural language generation task applied to automatically generating discharge instructions from admission ICD (International Classification of Diseases) codes.

639, TITLE: Constraint-based Learning of Phonological Processes
https://www.aclweb.org/anthology/D19-1639
AUTHORS: Shraddha Barke, Rose Kunkel, Nadia Polikarpova, Eric Meinhardt, Eric Bakovic, Leon Bergen
HIGHLIGHT: We present an unsupervised approach to learning human-readable descriptions of phonological processes from collections of related utterances.

640, TITLE: Detect Camouflaged Spam Content via StoneSkipping: Graph and Text Joint Embedding for Chinese Character Variation Representation
https://www.aclweb.org/anthology/D19-1640
AUTHORS: Zhuoren Jiang, Zhe Gao, Guoxiu He, Yangyang Kang, Changlong Sun, Qiong Zhang, Luo Si, Xiaozhong Liu
HIGHLIGHT: This paper proposes a novel framework to jointly model Chinese variational, semantic, and contextualized representations for Chinese text spam detection task.

641, TITLE: An Attentive Fine-Grained Entity Typing Model with Latent Type Representation
https://www.aclweb.org/anthology/D19-1641
AUTHORS: Ying Lin, Heng Ji
HIGHLIGHT: We propose a fine-grained entity typing model with a novel attention mechanism and a hybrid type classifier.

642, TITLE: An Improved Neural Baseline for Temporal Relation Extraction
https://www.aclweb.org/anthology/D19-1642
AUTHORS: Qiang Ning, Sanjay Subramanian, Dan Roth
HIGHLIGHT: This paper proposes a new neural system that achieves about 10% absolute improvement in accuracy over the previous best system (25% error reduction) on two benchmark datasets.

643, TITLE: Improving Fine-grained Entity Typing with Entity Linking
https://www.aclweb.org/anthology/D19-1643
AUTHORS: Hongliang Dai, Donghong Du, Xin Li, Yangqiu Song
HIGHLIGHT: In this paper, we use entity linking to help with the fine-grained entity type classification process.

644, TITLE: Combining Spans into Entities: A Neural Two-Stage Approach for Recognizing Discontiguous Entities
https://www.aclweb.org/anthology/D19-1644
AUTHORS: Bailin Wang, Wei Lu
HIGHLIGHT: In this work, we propose a neural two-stage approach to recognizing discontiguous and overlapping entities by decomposing this problem into two subtasks: 1) it first detects all the overlapping spans that either form entities on their own or present as segments of discontiguous entities, based on the representation of segmental hypergraph, 2) next it learns to combine these segments into discontiguous entities with a classifier, which filters out other incorrect combinations of segments.

645, TITLE: Cross-Sentence N-ary Relation Extraction using Lower-Arity Universal Schemas
https://www.aclweb.org/anthology/D19-1645
AUTHORS: Kosuke Akimoto, Takuya Hiraoka, Kunihiko Sadamasa, Mathias Niepert
HIGHLIGHT: In this paper, we propose a novel approach to cross-sentence n-ary relation extraction based on universal schemas.

646, TITLE: Gazetteer-Enhanced Attentive Neural Networks for Named Entity Recognition
https://www.aclweb.org/anthology/D19-1646
AUTHORS: Hongyu Lin, Yaojie Lu, Xianpei Han, Le Sun, Bin Dong, Shanshan Jiang
HIGHLIGHT: To alleviate this problem, this paper proposes Gazetteer-Enhanced Attentive Neural Networks, which can enhance region-based NER by learning name knowledge of entity mentions from easily-obtainable gazetteers, rather than only from fully-annotated data.

647, TITLE: ``A Buster Keaton of Linguistics": First Automated Approaches for the Extraction of Vossian Antonomasia
https://www.aclweb.org/anthology/D19-1647
AUTHORS: Michel Schwab, Robert Jäschke, Frank Fischer, Jannik Strötgen
HIGHLIGHT: In this paper, we propose a first method for the extraction of VAs that works completely automatically.

648, TITLE: Multi-Task Learning for Chemical Named Entity Recognition with Chemical Compound Paraphrasing
https://www.aclweb.org/anthology/D19-1648
AUTHORS: Taiki Watanabe, Akihiro Tamura, Takashi Ninomiya, Takuya Makino, Tomoya Iwakura
HIGHLIGHT: We propose a method to improve named entity recognition (NER) for chemical compounds using multi-task learning by jointly training a chemical NER model and a chemical com- pound paraphrase model.

649, TITLE: FewRel 2.0: Towards More Challenging Few-Shot Relation Classification
https://www.aclweb.org/anthology/D19-1649
AUTHORS: Tianyu Gao, Xu Han, Hao Zhu, Zhiyuan Liu, Peng Li, Maosong Sun, Jie Zhou
HIGHLIGHT: We present FewRel 2.0, a more challenging task to investigate two aspects of few-shot relation classification models: (1) Can they adapt to a new domain with only a handful of instances?

650, TITLE: ner and pos when nothing is capitalized
https://www.aclweb.org/anthology/D19-1650
AUTHORS: Stephen Mayhew, Tatiana Tsygankova, Dan Roth
HIGHLIGHT: In this work, we perform a systematic analysis of solutions to this problem, modifying only the casing of the train or test data using lowercasing and truecasing methods.

651, TITLE: CaRB: A Crowdsourced Benchmark for Open IE
https://www.aclweb.org/anthology/D19-1651
AUTHORS: Sangnie Bhardwaj, Samarth Aggarwal, Mausam Mausam
HIGHLIGHT: We contribute CaRB, an improved dataset and framework for testing Open IE systems.

652, TITLE: Weakly Supervised Attention Networks for Entity Recognition
https://www.aclweb.org/anthology/D19-1652
AUTHORS: Barun Patra, Joel Ruben Antony Moniz
HIGHLIGHT: In this work, we aim to circumvent this requirement of word-level annotated data.

653, TITLE: Revealing and Predicting Online Persuasion Strategy with Elementary Units
https://www.aclweb.org/anthology/D19-1653
AUTHORS: Gaku Morio, Ryo Egawa, Katsuhide Fujita
HIGHLIGHT: Our contributions are as follows: (1) annotating five types of EUs in a persuasive forum, the so-called ChangeMyView, (2) revealing both intuitive and non-intuitive strategic insights for the persuasion by analyzing 4612 annotated EUs, and (3) proposing baseline neural models that identify the EU boundary and type.

654, TITLE: A Challenge Dataset and Effective Models for Aspect-Based Sentiment Analysis
https://www.aclweb.org/anthology/D19-1654
AUTHORS: Qingnan Jiang, Lei Chen, Ruifeng Xu, Xiang Ao, Min Yang
HIGHLIGHT: In this paper, we present a new large-scale Multi-Aspect Multi-Sentiment (MAMS) dataset, in which each sentence contains at least two different aspects with different sentiment polarities.

655, TITLE: Learning with Noisy Labels for Sentence-level Sentiment Classification
https://www.aclweb.org/anthology/D19-1655
AUTHORS: Hao Wang, Bing Liu, Chaozhuo Li, Yan Yang, Tianrui Li
HIGHLIGHT: We propose a novel DNN model called NetAb (as shorthand for convolutional neural Networks with Ab-networks) to handle noisy labels during training.

656, TITLE: DENS: A Dataset for Multi-class Emotion Analysis
https://www.aclweb.org/anthology/D19-1656
AUTHORS: Chen Liu, Muhammad Osama, Anderson De Andrade
HIGHLIGHT: We introduce a new dataset for multi-class emotion analysis from long-form narratives in English.

657, TITLE: Multi-Task Stance Detection with Sentiment and Stance Lexicons
https://www.aclweb.org/anthology/D19-1657
AUTHORS: Yingjie Li, Cornelia Caragea
HIGHLIGHT: In this paper, we propose a multi-task framework that incorporates target-specific attention mechanism and at the same time takes sentiment classification as an auxiliary task.

658, TITLE: A Robust Self-Learning Framework for Cross-Lingual Text Classification
https://www.aclweb.org/anthology/D19-1658
AUTHORS: Xin Dong, Gerard de Melo
HIGHLIGHT: In this paper, we present an elegantly simple robust self-learning framework to include unlabeled non-English samples in the fine-tuning process of pretrained multilingual representation models.

659, TITLE: Learning to Flip the Sentiment of Reviews from Non-Parallel Corpora
https://www.aclweb.org/anthology/D19-1659
AUTHORS: Canasai Kruengkrai
HIGHLIGHT: We introduce a method for acquiring imperfectly aligned sentences from non-parallel corpora and propose a model that learns to minimize the sentiment and content losses in a fully end-to-end manner.

660, TITLE: Label Embedding using Hierarchical Structure of Labels for Twitter Classification
https://www.aclweb.org/anthology/D19-1660
AUTHORS: Taro Miyazaki, Kiminobu Makino, Yuka Takei, Hiroki Okamoto, Jun Goto
HIGHLIGHT: Therefore, we propose a method that can consider the hierarchical structure of labels and label texts themselves.

661, TITLE: Interpretable Word Embeddings via Informative Priors
https://www.aclweb.org/anthology/D19-1661
AUTHORS: Miriam Hurtado Bodell, Martin Arvidsson, Måns Magnusson
HIGHLIGHT: We propose the use of informative priors to create interpretable and domain-informed dimensions for probabilistic word embeddings.

662, TITLE: Adversarial Removal of Demographic Attributes Revisited
https://www.aclweb.org/anthology/D19-1662
AUTHORS: Maria Barrett, Yova Kementchedjhieva, Yanai Elazar, Desmond Elliott, Anders Søgaard
HIGHLIGHT: We revisit their experiments and conduct a series of follow-up experiments showing that, in fact, the diagnostic classifier generalizes poorly to both new in-domain samples and new domains, indicating that it relies on correlations specific to their particular data sample.

663, TITLE: A deep-learning framework to detect sarcasm targets
https://www.aclweb.org/anthology/D19-1663
AUTHORS: Jasabanta Patro, Srijan Bansal, Animesh Mukherjee
HIGHLIGHT: In this paper we propose a deep learning framework for sarcasm target detection in predefined sarcastic texts.

664, TITLE: In Plain Sight: Media Bias Through the Lens of Factual Reporting
https://www.aclweb.org/anthology/D19-1664
AUTHORS: Lisa Fan, Marshall White, Eva Sharma, Ruisi Su, Prafulla Kumar Choubey, Ruihong Huang, Lu Wang
HIGHLIGHT: In this work, we investigate the effects of informational bias: factual content that can nevertheless be deployed to sway reader opinion.

665, TITLE: Incorporating Label Dependencies in Multilabel Stance Detection
https://www.aclweb.org/anthology/D19-1665
AUTHORS: William Ferreira, Andreas Vlachos
HIGHLIGHT: In this paper, we address versions of the task in which an utterance can have multiple labels, thus corresponding to multilabel classification.

666, TITLE: Investigating Sports Commentator Bias within a Large Corpus of American Football Broadcasts
https://www.aclweb.org/anthology/D19-1666
AUTHORS: Jack Merullo, Luke Yeh, Abram Handler, Alvin Grissom II, Brendan O'Connor, Mohit Iyyer
HIGHLIGHT: We identify major confounding factors for researchers examining racial bias in FOOTBALL, and perform a computational analysis that supports conclusions from prior social science studies.

667, TITLE: Charge-Based Prison Term Prediction with Deep Gating Network
https://www.aclweb.org/anthology/D19-1667
AUTHORS: Huajie Chen, Deng Cai, Wei Dai, Zehui Dai, Yadong Ding
HIGHLIGHT: In this paper, we argue that charge-based prison term prediction (CPTP) not only better fits realistic needs, but also makes the total prison term prediction more accurate and interpretable. We collect the first large-scale structured data for CPTP and evaluate several competitive baselines.

668, TITLE: Restoring ancient text using deep learning: a case study on Greek epigraphy
https://www.aclweb.org/anthology/D19-1668
AUTHORS: Yannis Assael, Thea Sommerschield, Jonathan Prag
HIGHLIGHT: This work presents Pythia, the first ancient text restoration model that recovers missing characters from a damaged text input using deep neural networks.

669, TITLE: Embedding Lexical Features via Tensor Decomposition for Small Sample Humor Recognition
https://www.aclweb.org/anthology/D19-1669
AUTHORS: Zhenjie Zhao, Andrew Cattle, Evangelos Papalexakis, Xiaojuan Ma
HIGHLIGHT: We propose a novel tensor embedding method that can effectively extract lexical features for humor recognition.

670, TITLE: EDA: Easy Data Augmentation Techniques for Boosting Performance on Text Classification Tasks
https://www.aclweb.org/anthology/D19-1670
AUTHORS: Jason Wei, Kai Zou
HIGHLIGHT: We present EDA: easy data augmentation techniques for boosting performance on text classification tasks.

671, TITLE: Neural News Recommendation with Multi-Head Self-Attention
https://www.aclweb.org/anthology/D19-1671
AUTHORS: Chuhan Wu, Fangzhao Wu, Suyu Ge, Tao Qi, Yongfeng Huang, Xing Xie
HIGHLIGHT: In this paper, we propose a neural news recommendation approach with multi-head self-attention (NRMS).

672, TITLE: What Matters for Neural Cross-Lingual Named Entity Recognition: An Empirical Analysis
https://www.aclweb.org/anthology/D19-1672
AUTHORS: Xiaolei Huang, Jonathan May, Nanyun Peng
HIGHLIGHT: In this paper, we first propose a simple and efficient neural architecture for cross-lingual NER.

673, TITLE: Telling the Whole Story: A Manually Annotated Chinese Dataset for the Analysis of Humor in Jokes
https://www.aclweb.org/anthology/D19-1673
AUTHORS: Dongyu Zhang, Heting Zhang, Xikai Liu, Hongfei LIN, Feng Xia
HIGHLIGHT: We propose a novel annotation scheme to give scenarios of how humor arises in text.
We therefore create a dataset on humor with 9,123 manually annotated jokes in Chinese.

674, TITLE: Generating Natural Anagrams: Towards Language Generation Under Hard Combinatorial Constraints
https://www.aclweb.org/anthology/D19-1674
AUTHORS: Masaaki Nishino, Sho Takase, Tsutomu Hirao, Masaaki Nagata
HIGHLIGHT: In this paper, we show that simple depth-first search can yield natural anagrams when it is combined with modern neural language models.

675, TITLE: STANCY: Stance Classification Based on Consistency Cues
https://www.aclweb.org/anthology/D19-1675
AUTHORS: Kashyap Popat, Subhabrata Mukherjee, Andrew Yates, Gerhard Weikum
HIGHLIGHT: In this work, we present a neural network model for stance classification leveraging BERT representations and augmenting them with a novel consistency constraint.

676, TITLE: Cross-lingual intent classification in a low resource industrial setting
https://www.aclweb.org/anthology/D19-1676
AUTHORS: Talaat Khalil, Kornel Kie?czewski, Georgios Christos Chouliaras, Amina Keldibek, Maarten Versteegh
HIGHLIGHT: This paper explores different approaches to multilingual intent classification in a low resource setting.

677, TITLE: SoftRegex: Generating Regex from Natural Language Descriptions using Softened Regex Equivalence
https://www.aclweb.org/anthology/D19-1677
AUTHORS: Jun-U Park, Sang-Ki Ko, Marco Cognetta, Yo-Sub Han
HIGHLIGHT: Since the regular expression equivalence problem is PSPACE-complete, we introduce the EQ_Reg model for computing the simi-larity of two regular expressions using deep neural networks.

678, TITLE: Using Clinical Notes with Time Series Data for ICU Management
https://www.aclweb.org/anthology/D19-1678
AUTHORS: Swaraj Khadanga, Karan Aggarwal, Shafiq Joty, Jaideep Srivastava
HIGHLIGHT: We propose a method to model them jointly, achieving considerable improvement across benchmark tasks over baseline time-series model.

679, TITLE: Spelling-Aware Construction of Macaronic Texts for Teaching Foreign-Language Vocabulary
https://www.aclweb.org/anthology/D19-1679
AUTHORS: Adithya Renduchintala, Philipp Koehn, Jason Eisner

HIGHLIGHT: We present a machine foreign-language teacher that modifies text in a student's native language (L1) by replacing some word tokens with glosses in a foreign language (L2), in such a way that the student can acquire L2 vocabulary simply by reading the resulting macaronic text.

680, TITLE: Towards Machine Reading for Interventions from Humanitarian-Assistance Program Literature
https://www.aclweb.org/anthology/D19-1680
AUTHORS: Bonan Min, Yee Seng Chan, Haoling Qiu, Joshua Fasching
HIGHLIGHT: In this paper, we developed a corpus annotated with interventions to foster research, and developed an information extraction system for extracting interventions and their location and time from text.

681, TITLE: RUN through the Streets: A New Dataset and Baseline Models for Realistic Urban Navigation
https://www.aclweb.org/anthology/D19-1681
AUTHORS: Tzuf Paz-Argaman, Reut Tsarfaty
HIGHLIGHT: Here we introduce the Realistic Urban Navigation (RUN) task, aimed at interpreting NL navigation instructions based on a real, dense, urban map. Using Amazon Mechanical Turk, we collected a dataset of 2515 instructions aligned with actual routes over three regions of Manhattan.

682, TITLE: Context-Aware Conversation Thread Detection in Multi-Party Chat
https://www.aclweb.org/anthology/D19-1682
AUTHORS: Ming Tan, Dakuo Wang, Yupeng Gao, Haoyu Wang, Saloni Potdar, Xiaoxiao Guo, Shiyu Chang, Mo Yu
HIGHLIGHT: In this work, we propose a novel Context-Aware Thread Detection (CATD) model that automatically disentangles these conversation threads.