

- 678, TITLE: Early Discovery of Emerging Entities in Microblogs
<https://www.ijcai.org/proceedings/2019/678>
AUTHORS: Satoshi Akasaki, Naoki Yoshinaga, Masashi Toyoda
HIGHLIGHT: We therefore introduce a novel task of discovering truly emerging entities when they have just been introduced to the public through microblogs and propose an effective method based on time-sensitive distant supervision, which exploits distinctive early-stage contexts of emerging entities.
- 679, TITLE: Neural Program Induction for KBQA Without Gold Programs or Query Annotations
<https://www.ijcai.org/proceedings/2019/679>
AUTHORS: Ghulam Ahmed Ansari, Amrita Saha, Vishwajeet Kumar, Mohan Bhambhani, Karthik Sankaranarayanan, Soumen Chakrabarti
HIGHLIGHT: To deal with these, we propose a noise-resilient NPI model, Stable Sparse Reward based Programmer (SSRP) that evades noise-induced instability through continual retrospection and its comparison with current learning behavior.
- 680, TITLE: Medical Concept Representation Learning from Multi-source Data
<https://www.ijcai.org/proceedings/2019/680>
AUTHORS: Tian Bai, Brian L. Egleston, Richard Bleicher, Slobodan Vucetic
HIGHLIGHT: To be able to properly utilize such multi-source medical claim data, we propose an approach that represents medical codes from different ontologies in the same vector space.
- 681, TITLE: Multi-Domain Sentiment Classification Based on Domain-Aware Embedding and Attention
<https://www.ijcai.org/proceedings/2019/681>
AUTHORS: Yitao Cai, Xiaojun Wan
HIGHLIGHT: In this work, we propose a novel completely-shared multi-domain neural sentiment classification model to learn domain-aware word embeddings and make use of domain-aware attention mechanism.
- 682, TITLE: A Latent Variable Model for Learning Distributional Relation Vectors
<https://www.ijcai.org/proceedings/2019/682>
AUTHORS: Jose Camacho-Collados, Luis Espinosa-Anke, Shoaib Jameel, Steven Schockaert
HIGHLIGHT: To address this issue, we propose a latent variable model that aims to explicitly determine what words from the given sentences best characterize the relationship between the two target words.
- 683, TITLE: Generating Multiple Diverse Responses with Multi-Mapping and Posterior Mapping Selection
<https://www.ijcai.org/proceedings/2019/683>
AUTHORS: Chaotao Chen, Jinhua Peng, Fan Wang, Jun Xu, Hua Wu
HIGHLIGHT: In this paper, we propose a multi-mapping mechanism to better capture the one-to-many relationship, where multiple mapping modules are employed as latent mechanisms to model the semantic mappings from an input post to its diverse responses.
- 684, TITLE: Sentiment-Controllable Chinese Poetry Generation
<https://www.ijcai.org/proceedings/2019/684>
AUTHORS: Huimin Chen, Xiaoyuan Yi, Maosong Sun, Wenhao Li, Cheng Yang, Zhipeng Guo
HIGHLIGHT: To address this problem, we first collect a manually-labelled sentimental poetry corpus with fine-grained sentiment labels. Then we propose a novel semi-supervised conditional Variational Auto-Encoder model for sentiment-controllable poetry generation.
- 685, TITLE: From Words to Sentences: A Progressive Learning Approach for Zero-resource Machine Translation with Visual Pivots
<https://www.ijcai.org/proceedings/2019/685>
AUTHORS: Shizhe Chen, Qin Jin, Jianlong Fu
HIGHLIGHT: In this work, we propose a progressive learning approach for image-pivoted zero-resource machine translation.
- 686, TITLE: Learning towards Abstractive Timeline Summarization
<https://www.ijcai.org/proceedings/2019/686>
AUTHORS: Xiuying Chen, Zhangming Chan, Shen Gao, Meng-Hsuan Yu, Dongyan Zhao, Rui Yan
HIGHLIGHT: In this paper, we propose the task of abstractive timeline summarization, which tends to concisely paraphrase the information in the time-stamped events. Unlike traditional document summarization, timeline summarization needs to model the time series information of the input events and summarize important events in chronological order. To tackle this challenge, we propose a memory-based timeline summarization model (MTS).
- 687, TITLE: Coreference Aware Representation Learning for Neural Named Entity Recognition

<https://www.ijcai.org/proceedings/2019/687>
AUTHORS: Zeyu Dai, Hongliang Fei, Ping Li
HIGHLIGHT: In this paper, we propose a novel approach to learn coreference-aware word representations for the NER task at the document level.

688, TITLE: Learning Assistance from an Adversarial Critic for Multi-Outputs Prediction
<https://www.ijcai.org/proceedings/2019/688>
AUTHORS: Yue Deng, Yilin Shen, Hongxia Jin
HIGHLIGHT: We introduce an adversarial-critic-and-assistant (ACA) learning framework to improve the performance of existing supervised learning with multiple outputs.

689, TITLE: End-to-End Multi-Perspective Matching for Entity Resolution
<https://www.ijcai.org/proceedings/2019/689>
AUTHORS: Cheng Fu, Xianpei Han, Le Sun, Bo Chen, Wei Zhang, Suhui Wu, Hao Kong
HIGHLIGHT: To resolve the above problems, this paper proposes an end-to-end multi-perspective entity matching model, which can adaptively select optimal similarity measures for heterogenous attributes by jointly learning and selecting similarity measures in an end-to-end way.

690, TITLE: Difficulty Controllable Generation of Reading Comprehension Questions
<https://www.ijcai.org/proceedings/2019/690>
AUTHORS: Yifan Gao, Lidong Bing, Wang Chen, Michael Lyu, Irwin King
HIGHLIGHT: We investigate the difficulty levels of questions in reading comprehension datasets such as SQuAD, and propose a new question generation setting, named Difficulty-controllable Question Generation (DQG).

691, TITLE: Modeling Source Syntax and Semantics for Neural AMR Parsing
<https://www.ijcai.org/proceedings/2019/691>
AUTHORS: DongLai Ge, Junhui Li, Muhua Zhu, Shoushan Li
HIGHLIGHT: In this paper, we propose two effective approaches to explicitly modeling source syntax and semantics into neural seq2seq AMR parsing.

692, TITLE: CNN-Based Chinese NER with Lexicon Rethinking
<https://www.ijcai.org/proceedings/2019/692>
AUTHORS: Tao Gui, Ruotian Ma, Qi Zhang, Lujun Zhao, Yu-Gang Jiang, Xuanjing Huang
HIGHLIGHT: In this work, we propose a faster alternative to Chinese NER: a convolutional neural network (CNN)-based method that incorporates lexicons using a rethinking mechanism.

693, TITLE: Dual Visual Attention Network for Visual Dialog
<https://www.ijcai.org/proceedings/2019/693>
AUTHORS: Dan Guo, Hui Wang, Meng Wang
HIGHLIGHT: This paper aims to address cross-modal semantic correlation for visual dialog.

694, TITLE: AmazonQA: A Review-Based Question Answering Task
<https://www.ijcai.org/proceedings/2019/694>
AUTHORS: Mansi Gupta, Nitish Kulkarni, Raghuvveer Chanda, Anirudha Rayasam, Zachary C. Lipton
HIGHLIGHT: To this end, we introduce a new dataset and propose a method that combines informational retrieval techniques for selecting relevant reviews (given a question) and "reading comprehension" models for synthesizing an answer (given a question and review).

695, TITLE: Answering Binary Causal Questions Through Large-Scale Text Mining: An Evaluation Using Cause-Effect Pairs from Human Experts
<https://www.ijcai.org/proceedings/2019/695>
AUTHORS: Oktie Hassanzadeh, Debarun Bhattacharjya, Mark Feblowitz, Kavitha Srinivas, Michael Perrone, Shirin Sohrabi, Michael Katz
HIGHLIGHT: In this paper, we study the problem of answering questions of type "Could X cause Y?"

696, TITLE: GSN: A Graph-Structured Network for Multi-Party Dialogues
<https://www.ijcai.org/proceedings/2019/696>
AUTHORS: Wenpeng Hu, Zhangming Chan, Bing Liu, Dongyan Zhao, Jinwen Ma, Rui Yan
HIGHLIGHT: This paper generalizes existing sequence-based models to a Graph-Structured neural Network (GSN) for dialogue modeling.

697, TITLE: Leap-LSTM: Enhancing Long Short-Term Memory for Text Categorization
<https://www.ijcai.org/proceedings/2019/697>
AUTHORS: Ting Huang, Gehui Shen, Zhi-Hong Deng
HIGHLIGHT: To this end, we propose Leap-LSTM, an LSTM-enhanced model which dynamically leaps between words while reading texts.

698, TITLE: Relation Extraction Using Supervision from Topic Knowledge of Relation Labels
<https://www.ijcai.org/proceedings/2019/698>
AUTHORS: Haiyun Jiang, Li Cui, Zhe Xu, Deqing Yang, Jindong Chen, Chenguang Li, Jingping Liu, Jiaqing Liang, Chao Wang, Yanghua Xiao, Wei Wang
HIGHLIGHT: In this paper, we mine the topic knowledge of a relation to explicitly represent the semantics of this relation, and model relation extraction as a matching problem.

699, TITLE: Representation Learning with Weighted Inner Product for Universal Approximation of General Similarities
<https://www.ijcai.org/proceedings/2019/699>
AUTHORS: Geewook Kim, Akifumi Okuno, Kazuki Fukui, Hidetoshi Shimodaira
HIGHLIGHT: We propose weighted inner product similarity (WIPS) for neural network-based graph embedding.

700, TITLE: Incorporating Structural Information for Better Coreference Resolution
<https://www.ijcai.org/proceedings/2019/700>
AUTHORS: Fang Kong, Fu Jian
HIGHLIGHT: In this paper, we focus on effectively incorporating structural information to neural coreference resolution from three aspects.

701, TITLE: Knowledge Base Question Answering with Topic Units
<https://www.ijcai.org/proceedings/2019/701>
AUTHORS: Yunshi Lan, Shuohang Wang, Jing Jiang
HIGHLIGHT: In this paper, we propose to perform topic unit linking where topic units cover a wider range of units of a KB.

702, TITLE: Adversarial Transfer for Named Entity Boundary Detection with Pointer Networks
<https://www.ijcai.org/proceedings/2019/702>
AUTHORS: Jing Li, Deheng Ye, Shuo Shang
HIGHLIGHT: In this paper, we focus on named entity boundary detection, which aims to detect the start and end boundaries of an entity mention in text, without predicting its type.

703, TITLE: Towards Discriminative Representation Learning for Speech Emotion Recognition
<https://www.ijcai.org/proceedings/2019/703>
AUTHORS: Runnan Li, Zhiyong Wu, Jia Jia, Yaohua Bu, Sheng Zhao, Helen Meng
HIGHLIGHT: In this paper, inspired by human emotion perception, we propose a novel representation learning component (RLC) for SER system, which is constructed with Multi-head Self-attention and Global Context-aware Attention Long Short-Term Memory Recurrent Neural Network (GCA-LSTM).

704, TITLE: Self-attentive Biaffine Dependency Parsing
<https://www.ijcai.org/proceedings/2019/704>
AUTHORS: Ying Li, Zhenghua Li, Min Zhang, Rui Wang, Sheng Li, Luo Si
HIGHLIGHT: Motivated by the success of the transformer-based machine translation, this work for the first time applies the self-attention mechanism to dependency parsing as the replacement of the BiLSTM-based encoders, leading to competitive performance on both English and Chinese benchmark data.

705, TITLE: Reading selectively via Binary Input Gated Recurrent Unit
<https://www.ijcai.org/proceedings/2019/705>
AUTHORS: Zhe Li, Peisong Wang, Hanqing Lu, Jian Cheng
HIGHLIGHT: Inspired by human reading, we introduce binary input gated recurrent unit (BIGRU), a GRU based model using a binary input gate instead of the reset gate in GRU.

706, TITLE: Learning to Select Knowledge for Response Generation in Dialog Systems
<https://www.ijcai.org/proceedings/2019/706>
AUTHORS: Rongzhong Lian, Min Xie, Fan Wang, Jinhua Peng, Hua Wu
HIGHLIGHT: Motivated by this, we propose an end-to-end neural model which employs a novel knowledge selection mechanism where both prior and posterior distributions over knowledge are used to facilitate knowledge selection.

707, TITLE: Deep Mask Memory Network with Semantic Dependency and Context Moment for Aspect Level Sentiment Classification

<https://www.ijcai.org/proceedings/2019/707>

AUTHORS: Peiqin Lin, Meng Yang, Jianhuang Lai

HIGHLIGHT: In this paper, we propose a novel framework for aspect level sentiment classification, deep mask memory network with semantic dependency and context moment (DMMN-SDCM), which integrates semantic parsing information of the aspect and the inter-aspect relation information into deep memory network.

708, TITLE: Exploring and Distilling Cross-Modal Information for Image Captioning

<https://www.ijcai.org/proceedings/2019/708>

AUTHORS: Fenglin Liu, Xuancheng Ren, Yuanxin Liu, Kai Lei, Xu Sun

HIGHLIGHT: In this work, we argue that such understanding requires visual attention to correlated image regions and semantic attention to coherent attributes of interest.

709, TITLE: Network Embedding with Dual Generation Tasks

<https://www.ijcai.org/proceedings/2019/709>

AUTHORS: Jie Liu, Na Li, Zhicheng He

HIGHLIGHT: In this paper, we propose a general end-to-end model, Dual Generative Network Embedding (DGENE), to leverage the complementary information of network structure and content.

710, TITLE: Building Personalized Simulator for Interactive Search

<https://www.ijcai.org/proceedings/2019/710>

AUTHORS: Qianlong Liu, Baoliang Cui, Zhongyu Wei, Baolin Peng, Haikuan Huang, Hongbo Deng, Jianye Hao, Xuanjing Huang, Kam-Fai Wong

HIGHLIGHT: To address this issue, we propose to employ a simulator to mimic the environment for the offline training of the agent.

711, TITLE: A Dual Reinforcement Learning Framework for Unsupervised Text Style Transfer

<https://www.ijcai.org/proceedings/2019/711>

AUTHORS: Fuli Luo, Peng Li, Jie Zhou, Pengcheng Yang, Baobao Chang, Xu Sun, Zhifang Sui

HIGHLIGHT: Therefore, in this paper, we propose a dual reinforcement learning framework to directly transfer the style of the text via a one-step mapping model, without any separation of content and style.

712, TITLE: Unsupervised Neural Aspect Extraction with Sememes

<https://www.ijcai.org/proceedings/2019/712>

AUTHORS: Ling Luo, Xiang Ao, Yan Song, Jinyao Li, Xiaopeng Yang, Qing He, Dong Yu

HIGHLIGHT: In this paper, we present an unsupervised neural framework that leverages sememes to enhance lexical semantics.

713, TITLE: Randomized Greedy Search for Structured Prediction: Amortized Inference and Learning

<https://www.ijcai.org/proceedings/2019/713>

AUTHORS: Chao Ma, F A Rezaur Rahman Chowdhury, Aryan Deshwal, Md Rakibul Islam, Janardhan Rao Doppa, Dan Roth

HIGHLIGHT: This paper makes four contributions towards the goal of a computationally-efficient inference and training approach for structured prediction that allows to employ complex models and to optimize for non-decomposable loss functions.

714, TITLE: Aspect-Based Sentiment Classification with Attentive Neural Turing Machines

<https://www.ijcai.org/proceedings/2019/714>

AUTHORS: Qianren Mao, Jianxin Li, Senzhang Wang, Yuanming Zhang, Hao Peng, Min He, Lihong Wang

HIGHLIGHT: To solve this issue, we propose a novel model of Attentive Neural Turing Machines (ANTM).

715, TITLE: Learning Task-Specific Representation for Novel Words in Sequence Labeling

<https://www.ijcai.org/proceedings/2019/715>

AUTHORS: Minlong Peng, Qi Zhang, Xiaoyu Xing, Tao Gui, Jinlan Fu, Xuanjing Huang

HIGHLIGHT: In this work, we address the OOV problem in sequence labeling using only training data of the task.

716, TITLE: Improving Cross-Domain Performance for Relation Extraction via Dependency Prediction and Information Flow Control

<https://www.ijcai.org/proceedings/2019/716>

AUTHORS: Amir Pouran Ben Veysch, Thien Nguyen, Dejing Dou
HIGHLIGHT: This paper introduces a novel method to use dependency trees in RE for deep learning models that jointly predicts dependency and semantics relations.

717, TITLE: Learn to Select via Hierarchical Gate Mechanism for Aspect-Based Sentiment Analysis
<https://www.ijcai.org/proceedings/2019/717>
AUTHORS: Xiangying Ran, Yuanyuan Pan, Wei Sun, Chongjun Wang
HIGHLIGHT: In this paper, we propose a novel architecture named Hierarchical Gate Memory Network (HGMN) for ABSA: firstly, we employ the proposed hierarchical gate mechanism to learn to select the related part about the given aspect, which can keep the original sequence structure of sentence at the same time.

718, TITLE: Aligning Learning Outcomes to Learning Resources: A Lexico-Semantic Spatial Approach
<https://www.ijcai.org/proceedings/2019/718>
AUTHORS: Swarnadeep Saha, Malolan Chetlur, Tejas Indulal Dhamecha, W M Gayathri K Wijayarathna, Red Mendoza, Paul Gagnon, Nabil Zary, Shantanu Godbole
HIGHLIGHT: In this paper, we introduce the novel problem of aligning LOs (LO is usually a sentence long text) to relevant pages of LRs (LRs are in the form of slide decks).

719, TITLE: A Deep Generative Model for Code Switched Text
<https://www.ijcai.org/proceedings/2019/719>
AUTHORS: Bidisha Samanta, Sharmila Reddy, Hussain Jagirdar, Niloy Ganguly, Soumen Chakrabarti
HIGHLIGHT: We introduce VACS, a novel variational autoencoder architecture specifically tailored to code-switching phenomena.

720, TITLE: Knowledge Aware Semantic Concept Expansion for Image-Text Matching
<https://www.ijcai.org/proceedings/2019/720>
AUTHORS: Botian Shi, Lei Ji, Pan Lu, Zhendong Niu, Nan Duan
HIGHLIGHT: In this paper, we develop a Scene Concept Graph (SCG) by aggregating image scene graphs and extracting frequently co-occurred concept pairs as scene common-sense knowledge.

721, TITLE: Exploiting Persona Information for Diverse Generation of Conversational Responses
<https://www.ijcai.org/proceedings/2019/721>
AUTHORS: Haoyu Song, Wei-Nan Zhang, Yiming Cui, Dong Wang, Ting Liu
HIGHLIGHT: In this paper, we propose a memory-augmented architecture to exploit persona information from context and incorporate a conditional variational autoencoder model together to generate diverse and sustainable conversations.

722, TITLE: Cold-Start Aware Deep Memory Network for Multi-Entity Aspect-Based Sentiment Analysis
<https://www.ijcai.org/proceedings/2019/722>
AUTHORS: Kaisong Song, Wei Gao, Lujun Zhao, Jun Lin, Changlong Sun, Xiaozhong Liu
HIGHLIGHT: In this paper, we focus on a more general multiple entity aspect-based sentiment analysis (ME-ABSA) task which aims at identifying the sentiment polarity of different aspects of multiple entities in their context.

723, TITLE: GANs for Semi-Supervised Opinion Spam Detection
<https://www.ijcai.org/proceedings/2019/723>
AUTHORS: Gray Stanton, Athirai A. Irissappane
HIGHLIGHT: We propose spamGAN, a generative adversarial network which relies on limited labeled data as well as unlabeled data for opinion spam detection.

724, TITLE: PRoFET: Predicting the Risk of Firms from Event Transcripts
<https://www.ijcai.org/proceedings/2019/724>
AUTHORS: Christoph Kilian Theil, Samuel Broscheit, Heiner Stuckenschmidt
HIGHLIGHT: We introduce PRoFET, the first neural model for volatility prediction jointly exploiting both semantic language representations and a comprehensive set of financial features.

725, TITLE: Unsupervised Embedding Enhancements of Knowledge Graphs using Textual Associations
<https://www.ijcai.org/proceedings/2019/725>
AUTHORS: Neil Veira, Brian Keng, Kanchana Padmanabhan, Andreas Veneris
HIGHLIGHT: This paper describes an unsupervised approach to incorporate textual information by augmenting entity embeddings with embeddings of associated words.

- 726, TITLE: Swell-and-Shrink: Decomposing Image Captioning by Transformation and Summarization
<https://www.ijcai.org/proceedings/2019/726>
AUTHORS: Hanzhang Wang, Hanli Wang, Kaisheng Xu
HIGHLIGHT: To overcome the shortcomings, a swell-shrink method is proposed to redefine image captioning as a compositional task which consists of two separated modules: modality transformation and text compression.
- 727, TITLE: T-CVAE: Transformer-Based Conditioned Variational Autoencoder for Story Completion
<https://www.ijcai.org/proceedings/2019/727>
AUTHORS: Tianming Wang, Xiaojun Wan
HIGHLIGHT: In this paper, we present a novel conditional variational autoencoder based on Transformer for missing plot generation.
- 728, TITLE: Robust Embedding with Multi-Level Structures for Link Prediction
<https://www.ijcai.org/proceedings/2019/728>
AUTHORS: Zihan Wang, Zhaochun Ren, Chunyu He, Peng Zhang, Yue Hu
HIGHLIGHT: In this work, we propose a novel multi-level graph neural network (M-GNN) to address the above challenges.
- 729, TITLE: Revealing Semantic Structures of Texts: Multi-grained Framework for Automatic Mind-map Generation
<https://www.ijcai.org/proceedings/2019/729>
AUTHORS: Yang Wei, Honglei Guo, Jinmao Wei, Zhong Su
HIGHLIGHT: In this paper, we propose a multi-grained framework for automatic mind-map generation.
- 730, TITLE: Correct-and-Memorize: Learning to Translate from Interactive Revisions
<https://www.ijcai.org/proceedings/2019/730>
AUTHORS: Rongxiang Weng, Hao Zhou, Shujian Huang, Lei Li, Yifan Xia, Jiajun Chen
HIGHLIGHT: To solve both issues, we propose CAMIT, a novel method for translating in an interactive environment.
- 731, TITLE: Modeling Noisy Hierarchical Types in Fine-Grained Entity Typing: A Content-Based Weighting Approach
<https://www.ijcai.org/proceedings/2019/731>
AUTHORS: Junshuang Wu, Richong Zhang, Yongyi Mao, Hongyu Guo, Jinpeng Huai
HIGHLIGHT: In this paper, we directly model the structured, noisy labels with a novel content-sensitive weighting schema.
- 732, TITLE: Mask and Infill: Applying Masked Language Model for Sentiment Transfer
<https://www.ijcai.org/proceedings/2019/732>
AUTHORS: Xing Wu, Tao Zhang, Liangjun Zang, Jizhong Han, Songlin Hu
HIGHLIGHT: With this intuition, we propose a two steps approach: Mask and Infill.
- 733, TITLE: Relation-Aware Entity Alignment for Heterogeneous Knowledge Graphs
<https://www.ijcai.org/proceedings/2019/733>
AUTHORS: Yuting Wu, Xiao Liu, Yansong Feng, Zheng Wang, Rui Yan, Dongyan Zhao
HIGHLIGHT: In this paper, we propose a novel Relation-aware Dual-Graph Convolutional Network (RDGCN) to incorporate relation information via attentive interactions between the knowledge graph and its dual relation counterpart, and further capture neighboring structures to learn better entity representations.
- 734, TITLE: RTHN: A RNN-Transformer Hierarchical Network for Emotion Cause Extraction
<https://www.ijcai.org/proceedings/2019/734>
AUTHORS: Rui Xia, Mengran Zhang, Zixiang Ding
HIGHLIGHT: In this work, we propose a joint emotion cause extraction framework, named RNN-Transformer Hierarchical Network (RTHN), to encode and classify multiple clauses synchronously.
- 735, TITLE: Sharing Attention Weights for Fast Transformer
<https://www.ijcai.org/proceedings/2019/735>
AUTHORS: Tong Xiao, Yinqiao Li, Jingbo Zhu, Zhengtao Yu, Tongran Liu
HIGHLIGHT: In this paper we speed up Transformer via a fast and lightweight attention model.
- 736, TITLE: A Goal-Driven Tree-Structured Neural Model for Math Word Problems
<https://www.ijcai.org/proceedings/2019/736>
AUTHORS: Zhipeng Xie, Shichao Sun
HIGHLIGHT: This paper proposes a tree-structured neural model to generate expression tree in a goal-driven manner.

- 737, TITLE: Dual-View Variational Autoencoders for Semi-Supervised Text Matching
<https://www.ijcai.org/proceedings/2019/737>
AUTHORS: Zhongbin Xie, Shuai Ma
HIGHLIGHT: In this study, we propose to take the sentence-level embedding features and the word-level interaction features as two distinct views of a sentence pair, and unify them with a framework of Variational Autoencoders such that the sentence pair is matched in a semi-supervised manner.
- 738, TITLE: Earlier Attention? Aspect-Aware LSTM for Aspect-Based Sentiment Analysis
<https://www.ijcai.org/proceedings/2019/738>
AUTHORS: Bowen Xing, Lejian Liao, Dandan Song, Jingang Wang, Fuzheng Zhang, Zhongyuan Wang, Heyan Huang
HIGHLIGHT: This paper proposes a novel variant of LSTM, termed as aspect-aware LSTM (AA-LSTM), which incorporates aspect information into LSTM cells in the context modeling stage before the attention mechanism.
- 739, TITLE: Polygon-Net: A General Framework for Jointly Boosting Multiple Unsupervised Neural Machine Translation Models
<https://www.ijcai.org/proceedings/2019/739>
AUTHORS: Chang Xu, Tao Qin, Gang Wang, Tie-Yan Liu
HIGHLIGHT: In this work, we propose a general framework called Polygon-Net, which leverages multi auxiliary languages for jointly boosting unsupervised neural machine translation models.
- 740, TITLE: Neural Collective Entity Linking Based on Recurrent Random Walk Network Learning
<https://www.ijcai.org/proceedings/2019/740>
AUTHORS: Mengge Xue, Weiming Cai, Jinsong Su, Linfeng Song, Yubin Ge, Yubao Liu, Bin Wang
HIGHLIGHT: In this paper, we propose a novel end-to-end neural network with recurrent random-walk layers for collective EL, which introduces external knowledge to model the semantic interdependence between different EL decisions.
- 741, TITLE: Robust Audio Adversarial Example for a Physical Attack
<https://www.ijcai.org/proceedings/2019/741>
AUTHORS: Hiromu Yakura, Jun Sakuma
HIGHLIGHT: We propose a method to generate audio adversarial examples that can attack a state-of-the-art speech recognition model in the physical world.
- 742, TITLE: HorNet: A Hierarchical Offshoot Recurrent Network for Improving Person Re-ID via Image Captioning
<https://www.ijcai.org/proceedings/2019/742>
AUTHORS: Shiyang Yan, Jun Xu, Yuai Liu, Lin Xu
HIGHLIGHT: In this paper, instead, we propose a novel hierarchical offshoot recurrent network (HorNet) for improving person re-ID via image captioning.
- 743, TITLE: Knowledge-enhanced Hierarchical Attention for Community Question Answering with Multi-task and Adaptive Learning
<https://www.ijcai.org/proceedings/2019/743>
AUTHORS: Min Yang, Lei Chen, Xiaojun Chen, Qingyao Wu, Wei Zhou, Ying Shen
HIGHLIGHT: In this paper, we propose a Knowledge-enhanced Hierarchical Attention for community question answering with Multi-task learning and Adaptive learning (KHAMA).
- 744, TITLE: Knowledgeable Storyteller: A Commonsense-Driven Generative Model for Visual Storytelling
<https://www.ijcai.org/proceedings/2019/744>
AUTHORS: Pengcheng Yang, Fuli Luo, Peng Chen, Lei Li, Zhiyi Yin, Xiaodong He, Xu Sun
HIGHLIGHT: Therefore, in this work, we present a commonsense-driven generative model, which aims to introduce crucial commonsense from the external knowledge base for visual storytelling.
- 745, TITLE: Triplet Enhanced AutoEncoder: Model-free Discriminative Network Embedding
<https://www.ijcai.org/proceedings/2019/745>
AUTHORS: Yao Yang, Haoran Chen, Junming Shao
HIGHLIGHT: In this paper, we present Triplet Enhanced AutoEncoder (TEA), a new deep network embedding approach from the perspective of metric learning.
- 746, TITLE: Improving Multilingual Sentence Embedding using Bi-directional Dual Encoder with Additive Margin Softmax
<https://www.ijcai.org/proceedings/2019/746>

AUTHORS: Yinfei Yang, Gustavo Hernandez Abrego, Steve Yuan, Mandy Guo, Qinlan Shen, Daniel Cer, Yun-hsuan Sung, Brian Strope, Ray Kurzweil
HIGHLIGHT: In this paper, we present an approach to learn multilingual sentence embeddings using a bi-directional dual-encoder with additive margin softmax.

747, TITLE: Utilizing Non-Parallel Text for Style Transfer by Making Partial Comparisons
<https://www.ijcai.org/proceedings/2019/747>

AUTHORS: Di Yin, Shujian Huang, Xin-Yu Dai, Jiajun Chen
HIGHLIGHT: In this paper, we propose making partial comparisons to explicitly model the content and style correspondence of instances, respectively.

748, TITLE: Graph-based Neural Sentence Ordering

<https://www.ijcai.org/proceedings/2019/748>

AUTHORS: Yongjing Yin, Linfeng Song, Jinsong Su, Jiali Zeng, Chulun Zhou, Jiebo Luo
HIGHLIGHT: In this paper, we propose a novel and flexible graph-based neural sentence ordering model, which adopts graph recurrent network `\citep{Zhang:ac118}` to accurately learn semantic representations of the sentences.

749, TITLE: Refining Word Representations by Manifold Learning

<https://www.ijcai.org/proceedings/2019/749>

AUTHORS: Chu Yonghe, Hongfei Lin, Liang Yang, Yufeng Diao, Shaowu Zhang, Fan Xiaochao
HIGHLIGHT: In this paper, we propose a word vector refinement model to correct the pre-trained word embedding, which brings the similarity of words in Euclidean space closer to word semantics by using manifold learning.

750, TITLE: Beyond Word Attention: Using Segment Attention in Neural Relation Extraction

<https://www.ijcai.org/proceedings/2019/750>

AUTHORS: Bowen Yu, Zhenyu Zhang, Tingwen Liu, Bin Wang, Sujian Li, Quangang Li
HIGHLIGHT: In this paper, we aim to incorporate such segment information into neural relation extractor.

751, TITLE: Adapting BERT for Target-Oriented Multimodal Sentiment Classification

<https://www.ijcai.org/proceedings/2019/751>

AUTHORS: Jianfei Yu, Jing Jiang
HIGHLIGHT: Motivated by this observation and inspired by the recently proposed BERT architecture, we study Target-oriented Multimodal Sentiment Classification (TMSC) and propose a multimodal BERT architecture.

752, TITLE: Modeling both Context- and Speaker-Sensitive Dependence for Emotion Detection in Multi-speaker Conversations

<https://www.ijcai.org/proceedings/2019/752>

AUTHORS: Dong Zhang, Liangqing Wu, Changlong Sun, Shoushan Li, Qiaoming Zhu, Guodong Zhou
HIGHLIGHT: In this paper, we focus on emotion detection in multi-speaker conversations instead of traditional two-speaker conversations in existing studies.

753, TITLE: Extracting Entities and Events as a Single Task Using a Transition-Based Neural Model

<https://www.ijcai.org/proceedings/2019/753>

AUTHORS: Junchi Zhang, Yanxia Qin, Yue Zhang, Mengchi Liu, Donghong Ji
HIGHLIGHT: We build a first model to this end using a neural transition-based framework, incrementally predicting complex joint structures in a state-transition process.

754, TITLE: Multi-view Knowledge Graph Embedding for Entity Alignment

<https://www.ijcai.org/proceedings/2019/754>

AUTHORS: Qingheng Zhang, Zequn Sun, Wei Hu, Muhao Chen, Lingbing Guo, Yuzhong Qu
HIGHLIGHT: In this paper, we propose a novel framework that unifies multiple views of entities to learn embeddings for entity alignment.

755, TITLE: Quantum-Inspired Interactive Networks for Conversational Sentiment Analysis

<https://www.ijcai.org/proceedings/2019/755>

AUTHORS: Yazhou Zhang, Qiuchi Li, Dawei Song, Peng Zhang, Panpan Wang
HIGHLIGHT: In this paper, we aim to address this issue by modeling intrautterance and inter-utterance interaction dynamics.

756, TITLE: A Document-grounded Matching Network for Response Selection in Retrieval-based Chatbots

<https://www.ijcai.org/proceedings/2019/756>

AUTHORS: Xueliang Zhao, Chongyang Tao, Wei Wu, Can Xu, Dongyan Zhao, Rui Yan
HIGHLIGHT: We present a document-grounded matching network (DGMN) for response selection that can power a knowledge-aware retrieval-based chatbot system.

757, TITLE: Recurrent Neural Network for Text Classification with Hierarchical Multiscale Dense Connections
<https://www.ijcai.org/proceedings/2019/757>
AUTHORS: Yi Zhao, Yanyan Shen, Junjie Yao
HIGHLIGHT: Inspired by the advent of the dense connection pattern in advanced convolutional neural networks, we propose a simple yet effective recurrent architecture, named Hierarchical Mutiscale Densely Connected RNNs (HM-DenseRNNs), which: 1) enables direct access to the hidden states of all preceding recurrent units via dense connections, and 2) organizes multiple densely connected recurrent units into a hierarchical multi-scale structure, where the layers are updated at different scales.

758, TITLE: RLTM: An Efficient Neural IR Framework for Long Documents
<https://www.ijcai.org/proceedings/2019/758>
AUTHORS: Chen Zheng, Yu Sun, Shengxian Wan, Dianhai Yu
HIGHLIGHT: This paper proposes a novel End-to-End neural ranking framework called Reinforced Long Text Matching (RLTM) which matches a query with long documents efficiently and effectively.

759, TITLE: Dynamically Route Hierarchical Structure Representation to Attentive Capsule for Text Classification
<https://www.ijcai.org/proceedings/2019/759>
AUTHORS: Wanshan Zheng, Zibin Zheng, Hai Wan, Chuan Chen
HIGHLIGHT: In this paper, we propose a novel architecture that dynamically routes hierarchical structure feature to attentive capsule, named HAC.

760, TITLE: Sequence Generation: From Both Sides to the Middle
<https://www.ijcai.org/proceedings/2019/760>
AUTHORS: Long Zhou, Jiajun Zhang, Chengqing Zong, Heng Yu
HIGHLIGHT: To alleviate these issues, we propose a synchronous bidirectional sequence generation (SBSG) model which predicts its outputs from both sides to the middle simultaneously.

761, TITLE: Getting in Shape: Word Embedding SubSpaces
<https://www.ijcai.org/proceedings/2019/761>
AUTHORS: Tianyuan Zhou, João Sedoc, Jordan Rodu
HIGHLIGHT: We provide a theoretical framework and guarantees which aid in the understanding of empirical results.

762, TITLE: A Span-based Joint Model for Opinion Target Extraction and Target Sentiment Classification
<https://www.ijcai.org/proceedings/2019/762>
AUTHORS: Yan Zhou, Longtao Huang, Tao Guo, Jizhong Han, Songlin Hu
HIGHLIGHT: In this paper, inspired by span-based methods in NLP, we propose a simple and effective joint model to conduct extraction and classification at span level rather than token level.