Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (Volume 1: Long Papers)
Chengqing Zong | Fei Xia | Wenjie Li | Roberto Navigli

pdfbibabs
Investigating label suggestions for opinion mining in German Covid-19 social media
Tilman Beck | Ji-Ung Lee | Christina Viehmann | Marcus Maurer | Oliver Quiring | Iryna Gurevych

pdfbibabs
How Did This Get Funded?! Automatically Identifying Quirky Scientific Achievements
Chen Shani | Nadav Borenstein | Dafna Shahaf

pdfbibabs
Engage the Public: Poll Question Generation for Social Media Posts
Zexin Lu | Keyang Ding | Yuji Zhang | Jing Li | Baolin Peng | Lemao Liu

pdfbibabs
HateCheck: Functional Tests for Hate Speech Detection Models
Paul Röttger | Bertie Vidgen | Dong Nguyen | Zeerak Waseem | Helen Margetts | Janet Pierrehumbert

pdfbibabs
Unified Dual-view Cognitive Model for Interpretable Claim Verification
Lianwei Wu | Yuan Rao | Yuqian Lan | Ling Sun | Zhaoyin Qi

pdfbibabs
DeepRapper: Neural Rap Generation with Rhyme and Rhythm Modeling
Lanqing Xue | Kaitao Song | Duocai Wu | Xu Tan | Nevin L. Zhang | Tao Qin | Wei-Qiang Zhang | Tie-Yan Liu

pdfbibabs
PENS: A Dataset and Generic Framework for Personalized News Headline Generation
Xiang Ao | Xiting Wang | Ling Luo | Ying Qiao | Qing He | Xing Xie

pdfbibabs
Enhancing Content Preservation in Text Style Transfer Using Reverse Attention and Conditional Layer Normalization
Dongkyu Lee | Zhiliang Tian | Lanqing Xue | Nevin L. Zhang

pdfbibabs
Mention Flags (MF): Constraining Transformer-based Text Generators
Yufei Wang | Ian Wood | Stephen Wan | Mark Dras | Mark Johnson

pdfbibabs
Generalising Multilingual Concept-to-Text NLG with Language Agnostic Delexicalisation
Giulio Zhou | Gerasimos Lampouras

pdfbibabs
Conversations Are Not Flat: Modeling the Dynamic Information Flow across Dialogue Utterances
Zekang Li | Jinchao Zhang | Zhengcong Fei | Yang Feng | Jie Zhou

pdfbibabs
Dual Slot Selector via Local Reliability Verification for Dialogue State Tracking
Jinyu Guo | Kai Shuang | Jijie Li | Zihan Wang

pdfbibabs
Transferable Dialogue Systems and User Simulators
Bo-Hsiang Tseng | Yinpei Dai | Florian Kreyssig | Bill Byrne

pdfbibabs
BoB: BERT Over BERT for Training Persona-based Dialogue Models from Limited Personalized Data
Haoyu Song | Yan Wang | Kaiyan Zhang | Wei-Nan Zhang | Ting Liu

pdfbibabs
GL-GIN: Fast and Accurate Non-Autoregressive Model for Joint Multiple Intent Detection and Slot Filling
Libo Qin | Fuxuan Wei | Tianbao Xie | Xiao Xu | Wanxiang Che | Ting Liu

pdfbibabs
Accelerating BERT Inference for Sequence Labeling via Early-Exit
Xiaonan Li | Yunfan Shao | Tianxiang Sun | Hang Yan | Xipeng Qiu | Xuanjing Huang

pdfbibabs
Modularized Interaction Network for Named Entity Recognition
Fei Li | Zheng Wang | Siu Cheung Hui | Lejian Liao | Dandan Song | Jing Xu | Guoxiu He | Meihuizi Jia

pdfbibabs
Capturing Event Argument Interaction via A Bi-Directional Entity-Level Recurrent Decoder
Xi Xiangyu | Wei Ye | Shikun Zhang | Quanxiu Wang | Huixing Jiang | Wei Wu

pdfbibabs
UniRE: A Unified Label Space for Entity Relation Extraction
Yijun Wang | Changzhi Sun | Yuanbin Wu | Hao Zhou | Lei Li | Junchi Yan

pdfbibabs
Refining Sample Embeddings with Relation Prototypes to Enhance Continual Relation Extraction
Li Cui | Deqing Yang | Jiaxin Yu | Chengwei Hu | Jiayang Cheng | Jingjie Yi | Yanghua Xiao

pdfbibabs
Contrastive Learning for Many-to-many Multilingual Neural Machine Translation
Xiao Pan | Mingxuan Wang | Liwei Wu | Lei Li

pdfbibabs
Understanding the Properties of Minimum Bayes Risk Decoding in Neural Machine Translation
Mathias Müller | Rico Sennrich

pdfbibabs
Multi-Head Highly Parallelized LSTM Decoder for Neural Machine Translation
Hongfei Xu | Qiuhui Liu | Josef van Genabith | Deyi Xiong | Meng Zhang

pdfbibabs
A Bidirectional Transformer Based Alignment Model for Unsupervised Word Alignment
Jingyi Zhang | Josef van Genabith

pdfbibabs
Learning Language Specific Sub-network for Multilingual Machine Translation
Zehui Lin | Liwei Wu | Mingxuan Wang | Lei Li

pdfbibabs
Exploring the Efficacy of Automatically Generated Counterfactuals for Sentiment Analysis
Linyi Yang | Jiazheng Li | Padraig Cunningham | Yue Zhang | Barry Smyth | Ruihai Dong

pdfbibabs
Bridge-Based Active Domain Adaptation for Aspect Term Extraction
Zhuang Chen | Tieyun Qian

pdfbibabs
Multimodal Sentiment Detection Based on Multi-channel Graph Neural Networks
Xiaocui Yang | Shi Feng | Yifei Zhang | Daling Wang

pdfbibabs
Aspect-Category-Opinion-Sentiment Quadruple Extraction with Implicit Aspects and Opinions
Hongjie Cai | Rui Xia | Jianfei Yu

pdfbibabs
PASS: Perturb-and-Select Summarizer for Product Reviews
Nadav Oved | Ran Levy

pdfbibabs
Deep Differential Amplifier for Extractive Summarization
Ruipeng Jia | Yanan Cao | Fang Fang | Yuchen Zhou | Zheng Fang | Yanbing Liu | Shi Wang

pdfbibabs
Multi-TimeLine Summarization (MTLS): Improving Timeline Summarization by Generating Multiple Summaries
Yi Yu | Adam Jatowt | Antoine Doucet | Kazunari Sugiyama | Masatoshi Yoshikawa

pdfbibabs
Self-Supervised Multimodal Opinion Summarization
Jinbae Im | Moonki Kim | Hoyeop Lee | Hyunsouk Cho | Sehee Chung

pdfbibabs
A Training-free and Reference-free Summarization Evaluation Metric via Centrality-weighted Relevance and Self-referenced Redundancy
Wang Chen | Piji Li | Irwin King

pdfbibabs
DESCGEN: A Distantly Supervised Datasetfor Generating Entity Descriptions
Weijia Shi | Mandar Joshi | Luke Zettlemoyer

pdfbibabs
Introducing Orthogonal Constraint in Structural Probes
Tomasz Limisiewicz | David Mareček

pdfbibabs
Hidden Killer: Invisible Textual Backdoor Attacks with Syntactic Trigger
Fanchao Qi | Mukai Li | Yangyi Chen | Zhengyan Zhang | Zhiyuan Liu | Yasheng Wang | Maosong Sun

pdfbibabs
Examining the Inductive Bias of Neural Language Models with Artificial Languages
Jennifer C. White | Ryan Cotterell

pdfbibabs
Explaining Contextualization in Language Models using Visual Analytics
Rita Sevastjanova | Aikaterini-Lida Kalouli | Christin Beck | Hanna Schäfer | Mennatallah El-Assady

pdfbibabs
Improving the Faithfulness of Attention-based Explanations with Task-specific Information for Text Classification
George Chrysostomou | Nikolaos Aletras

pdfbibabs
Generating Landmark Navigation Instructions from Maps as a Graph-to-Text Problem
Raphael Schumann | Stefan Riezler

pdfbibabs
E2E-VLP: End-to-End Vision-Language Pre-training Enhanced by Visual Learning
Haiyang Xu | Ming Yan | Chenliang Li | Bin Bi | Songfang Huang | Wenming Xiao | Fei Huang

pdfbibabs
Learning Relation Alignment for Calibrated Cross-modal Retrieval
Shuhuai Ren | Junyang Lin | Guangxiang Zhao | Rui Men | An Yang | Jingren Zhou | Xu Sun | Hongxia Yang

pdfbibabs
KM-BART: Knowledge Enhanced Multimodal BART for Visual Commonsense Generation
Yiran Xing | Zai Shi | Zhao Meng | Gerhard Lakemeyer | Yunpu Ma | Roger Wattenhofer

pdfbibabs
Cascaded Head-colliding Attention
Lin Zheng | Zhiyong Wu | Lingpeng Kong

pdfbibabs
Structural Knowledge Distillation: Tractably Distilling Information for Structured Predictor
Xinyu Wang | Yong Jiang | Zhaohui Yan | Zixia Jia | Nguyen Bach | Tao Wang | Zhongqiang Huang | Fei Huang | Kewei Tu

pdfbibabs
Parameter-efficient Multi-task Fine-tuning for Transformers via Shared Hypernetworks
Rabeeh Karimi Mahabadi | Sebastian Ruder | Mostafa Dehghani | James Henderson

pdfbibabs
COSY: COunterfactual SYntax for Cross-Lingual Understanding
Sicheng Yu | Hao Zhang | Yulei Niu | Qianru Sun | Jing Jiang

pdfbibabs
OoMMix: Out-of-manifold Regularization in Contextual Embedding Space for Text Classification
Seonghyeon Lee | Dongha Lee | Hwanjo Yu

pdfbibabs
Understanding and Countering Stereotypes: A Computational Approach to the Stereotype Content Model
Kathleen C. Fraser | Isar Nejadgholi | Svetlana Kiritchenko

pdfbibabs
Structurizing Misinformation Stories via Rationalizing Fact-Checks
Shan Jiang | Christo Wilson

pdfbibabs
Modeling Language Usage and Listener Engagement in Podcasts
Sravana Reddy | Mariya Lazarova | Yongze Yu | Rosie Jones

pdfbibabs
Breaking Down the Invisible Wall of Informal Fallacies in Online Discussions
Saumya Sahai | Oana Balalau | Roxana Horincar

pdfbibabs
SocAoG: Incremental Graph Parsing for Social Relation Inference in Dialogues
Liang Qiu | Yuan Liang | Yizhou Zhao | Pan Lu | Baolin Peng | Zhou Yu | Ying Nian Wu | Song-Chun Zhu

pdfbibabs
TicketTalk: Toward human-level performance with end-to-end, transaction-based dialog systems
Bill Byrne | Karthik Krishnamoorthi | Saravanan Ganesh | Mihir Kale

pdfbibabs
Improving Dialog Systems for Negotiation with Personality Modeling
Runzhe Yang | Jingxiao Chen | Karthik Narasimhan

pdfbibabs
Learning from Perturbations: Diverse and Informative Dialogue Generation with Inverse Adversarial Training
Wangchunshu Zhou | Qifei Li | Chenle Li

pdfbibabs
Increasing Faithfulness in Knowledge-Grounded Dialogue with Controllable Features
Hannah Rashkin | David Reitter | Gaurav Singh Tomar | Dipanjan Das

pdfbibabs
CitationIE: Leveraging the Citation Graph for Scientific Information Extraction
Vijay Viswanathan | Graham Neubig | Pengfei Liu

pdfbibabs
From Discourse to Narrative: Knowledge Projection for Event Relation Extraction
Jialong Tang | Hongyu Lin | Meng Liao | Yaojie Lu | Xianpei Han | Le Sun | Weijian Xie | Jin Xu

pdfbibabs
AdvPicker: Effectively Leveraging Unlabeled Data via Adversarial Discriminator for Cross-Lingual NER
Weile Chen | Huiqiang Jiang | Qianhui Wu | Börje Karlsson | Yi Guan

pdfbibabs
Compare to The Knowledge: Graph Neural Fake News Detection with External Knowledge
Linmei Hu | Tianchi Yang | Luhao Zhang | Wanjun Zhong | Duyu Tang | Chuan Shi | Nan Duan | Ming Zhou

pdfbibabs
Discontinuous Named Entity Recognition as Maximal Clique Discovery
Yucheng Wang | Bowen Yu | Hongsong Zhu | Tingwen Liu | Nan Yu | Limin Sun

pdfbibabs
LNN-EL: A Neuro-Symbolic Approach to Short-text Entity Linking
Hang Jiang | Sairam Gurajada | Qiuhao Lu | Sumit Neelam | Lucian Popa | Prithviraj Sen | Yunyao Li | Alexander Gray

pdfbibabs
Do Context-Aware Translation Models Pay the Right Attention?
Kayo Yin | Patrick Fernandes | Danish Pruthi | Aditi Chaudhary | André F. T. Martins | Graham Neubig

pdfbibabs
Adapting High-resource NMT Models to Translate Low-resource Related Languages without Parallel Data
Wei-Jen Ko | Ahmed El-Kishky | Adithya Renduchintala | Vishrav Chaudhary | Naman Goyal | Francisco Guzmán | Pascale Fung | Philipp Koehn | Mona Diab

pdfbibabs
Bilingual Lexicon Induction via Unsupervised Bitext Construction and Word Alignment
Haoyue Shi | Luke Zettlemoyer | Sida I. Wang

pdfbibabs
Multilingual Speech Translation from Efficient Finetuning of Pretrained Models
Xian Li | Changhan Wang | Yun Tang | Chau Tran | Yuqing Tang | Juan Pino | Alexei Baevski | Alexis Conneau | Michael Auli

pdfbibabs
Learning Faithful Representations of Causal Graphs
Ananth Balashankar | Lakshminarayanan Subramanian

pdfbibabs
What Context Features Can Transformer Language Models Use?
Joe O'Connor | Jacob Andreas

pdfbibabs
Integrated Directional Gradients: Feature Interaction Attribution for Neural NLP Models
Sandipan Sikdar | Parantapa Bhattacharya | Kieran Heese

pdfbibabs
DeCLUTR: Deep Contrastive Learning for Unsupervised Textual Representations
John Giorgi | Osvald Nitski | Bo Wang | Gary Bader

pdfbibabs
XLPT-AMR: Cross-Lingual Pre-Training via Multi-Task Learning for Zero-Shot AMR Parsing and Text Generation
Dongqin Xu | Junhui Li | Muhua Zhu | Min Zhang | Guodong Zhou

pdfbibabs
Span-based Semantic Parsing for Compositional Generalization
Jonathan Herzig | Jonathan Berant

pdfbibabs
Compositional Generalization and Natural Language Variation: Can a Semantic Parsing Approach Handle Both?
Peter Shaw | Ming-Wei Chang | Panupong Pasupat | Kristina Toutanova

pdfbibabs
A Targeted Assessment of Incremental Processing in Neural Language Models and Humans
Ethan Wilcox | Pranali Vani | Roger Levy

pdfbibabs
The Possible, the Plausible, and the Desirable: Event-Based Modality Detection for Language Processing
Valentina Pyatkin | Shoval Sadde | Aynat Rubinstein | Paul Portner | Reut Tsarfaty

pdfbibabs
To POS Tag or Not to POS Tag: The Impact of POS Tags on Morphological Learning in Low-Resource Settings
Sarah Moeller | Ling Liu | Mans Hulden

pdfbibabs
Prosodic segmentation for parsing spoken dialogue
Elizabeth Nielsen | Mark Steedman | Sharon Goldwater

pdfbibabs
VoxPopuli: A Large-Scale Multilingual Speech Corpus for Representation Learning, Semi-Supervised Learning and Interpretation
Changhan Wang | Morgane Riviere | Ann Lee | Anne Wu | Chaitanya Talnikar | Daniel Haziza | Mary Williamson | Juan Pino | Emmanuel Dupoux

pdfbibabs
Stereotyping Norwegian Salmon: An Inventory of Pitfalls in Fairness Benchmark Datasets
Su Lin Blodgett | Gilsinia Lopez | Alexandra Olteanu | Robert Sim | Hanna Wallach

pdfbibabs
Robust Knowledge Graph Completion with Stacked Convolutions and a Student Re-Ranking Network
Justin Lovelace | Denis Newman-Griffis | Shikhar Vashishth | Jill Fain Lehman | Carolyn Rosé

pdfbibabs
A DQN-based Approach to Finding Precise Evidences for Fact Verification
Hai Wan | Haicheng Chen | Jianfeng Du | Weilin Luo | Rongzhen Ye

pdfbibabs
The Art of Abstention: Selective Prediction and Error Regularization for Natural Language Processing
Ji Xin | Raphael Tang | Yaoliang Yu | Jimmy Lin

pdfbibabs
Unsupervised Out-of-Domain Detection via Pre-trained Transformers
Keyang Xu | Tongzheng Ren | Shikun Zhang | Yihao Feng | Caiming Xiong

pdfbibabs
MATE-KD: Masked Adversarial TExt, a Companion to Knowledge Distillation
Ahmad Rashid | Vasileios Lioutas | Mehdi Rezagholizadeh

pdfbibabs
Selecting Informative Contexts Improves Language Model Fine-tuning
Richard Antonello | Nicole Beckage | Javier Turek | Alexander Huth

pdfbibabs
Explainable Prediction of Text Complexity: The Missing Preliminaries for Text Simplification
Cristina Garbacea | Mengtian Guo | Samuel Carton | Qiaozhu Mei

pdfbibabs
Multi-Task Retrieval for Knowledge-Intensive Tasks
Jean Maillard | Vladimir Karpukhin | Fabio Petroni | Wen-tau Yih | Barlas Oguz | Veselin Stoyanov | Gargi Ghosh

pdfbibabs
When Do You Need Billions of Words of Pretraining Data?
Yian Zhang | Alex Warstadt | Xiaocheng Li | Samuel R. Bowman

pdfbibabs
Analyzing the Source and Target Contributions to Predictions in Neural Machine Translation
Elena Voita | Rico Sennrich | Ivan Titov

pdfbibabs
Comparing Test Sets with Item Response Theory
Clara Vania | Phu Mon Htut | William Huang | Dhara Mungra | Richard Yuanzhe Pang | Jason Phang | Haokun Liu | Kyunghyun Cho | Samuel R. Bowman

pdfbibabs
Uncovering Constraint-Based Behavior in Neural Models via Targeted Fine-Tuning
Forrest Davis | Marten van Schijndel

pdfbibabs
More Identifiable yet Equally Performant Transformers for Text Classification
Rishabh Bhardwaj | Navonil Majumder | Soujanya Poria | Eduard Hovy

pdfbibabs
AugNLG: Few-shot Natural Language Generation using Self-trained Data Augmentation
Xinnuo Xu | Guoyin Wang | Young-Bum Kim | Sungjin Lee

pdfbibabs
Can vectors read minds better than experts? Comparing data augmentation strategies for the automated scoring of children's mindreading ability
Venelin Kovatchev | Phillip Smith | Mark Lee | Rory Devine

pdfbibabs
A Dataset and Baselines for Multilingual Reply Suggestion
Mozhi Zhang | Wei Wang | Budhaditya Deb | Guoqing Zheng | Milad Shokouhi | Ahmed Hassan Awadallah

pdfbibabs
What Ingredients Make for an Effective Crowdsourcing Protocol for Difficult NLU Data Collection Tasks?
Nikita Nangia | Saku Sugawara | Harsh Trivedi | Alex Warstadt | Clara Vania | Samuel R. Bowman

pdfbibabs
Align Voting Behavior with Public Statements for Legislator Representation Learning
Xinyi Mou | Zhongyu Wei | Lei Chen | Shangyi Ning | Yancheng He | Changjian Jiang | Xuanjing Huang

pdfbibabs
Measure and Evaluation of Semantic Divergence across Two Languages
Syrielle Montariol | Alexandre Allauzen

pdfbibabs
Improving Zero-Shot Translation by Disentangling Positional Information
Danni Liu | Jan Niehues | James Cross | Francisco Guzmán | Xian Li

pdfbibabs
Common Sense Beyond English: Evaluating and Improving Multilingual Language Models for Commonsense Reasoning
Bill Yuchen Lin | Seyeon Lee | Xiaoyang Qiao | Xiang Ren

pdfbibabs
Attention Calibration for Transformer in Neural Machine Translation
Yu Lu | Jiali Zeng | Jiajun Zhang | Shuangzhi Wu | Mu Li

pdfbibabs
Diverse Pretrained Context Encodings Improve Document Translation
Domenic Donato | Lei Yu | Chris Dyer

pdfbibabs
Exploiting Language Relatedness for Low Web-Resource Language Model Adaptation: An Indic Languages Study
Yash Khemchandani | Sarvesh Mehtani | Vaidehi Patil | Abhijeet Awasthi | Partha Talukdar | Sunita Sarawagi

pdfbibabs
On Finding the K-best Non-projective Dependency Trees
Ran Zmigrod | Tim Vieira | Ryan Cotterell

pdfbibabs
Towards Argument Mining for Social Good: A Survey
Eva Maria Vecchi | Neele Falk | Iman Jundi | Gabriella Lapesa

pdfbibabs
Automated Generation of Storytelling Vocabulary from Photographs for use in AAC
Mauricio Fontana de Vargas | Karyn Moffatt

pdfbibabs
CLIP: A Dataset for Extracting Action Items for Physicians from Hospital Discharge Notes
James Mullenbach | Yada Pruksachatkun | Sean Adler | Jennifer Seale | Jordan Swartz | Greg McKelvey | Hui Dai | Yi Yang | David Sontag

pdfbibabs
Assessing Emoji Use in Modern Text Processing Tools
Abu Awal Md Shoeb | Gerard de Melo

pdfbibabs
Select, Extract and Generate: Neural Keyphrase Generation with Layer-wise Coverage Attention
Wasi Ahmad | Xiao Bai | Soomin Lee | Kai-Wei Chang

pdfbibabs
Factorising Meaning and Form for Intent-Preserving Paraphrasing
Tom Hosking | Mirella Lapata

pdfbibabs
AggGen: Ordering and Aggregating while Generating
Xinnuo Xu | Ondřej Dušek | Verena Rieser | Ioannis Konstas

pdfbibabs
Reflective Decoding: Beyond Unidirectional Generation with Off-the-Shelf Language Models
Peter West | Ximing Lu | Ari Holtzman | Chandra Bhagavatula | Jena D. Hwang | Yejin Choi

pdfbibabs
Towards Table-to-Text Generation with Numerical Reasoning
Lya Hulliyyatus Suadaa | Hidetaka Kamigaito | Kotaro Funakoshi | Manabu Okumura | Hiroya Takamura

pdfbibabs
BACO: A Background Knowledge- and Content-Based Framework for Citing Sentence Generation
Yubin Ge | Ly Dinh | Xiaofeng Liu | Jinsong Su | Ziyao Lu | Ante Wang | Jana Diesner

pdfbibabs
Language Model as an Annotator: Exploring DialoGPT for Dialogue Summarization
Xiachong Feng | Xiaocheng Feng | Libo Qin | Bing Qin | Ting Liu

pdfbibabs
Challenges in Information-Seeking QA: Unanswerable Questions and Paragraph Retrieval
Akari Asai | Eunsol Choi

pdfbibabs
A Gradually Soft Multi-Task and Data-Augmented Approach to Medical Question Understanding
Khalil Mrini | Franck Dernoncourt | Seunghyun Yoon | Trung Bui | Walter Chang | Emilia Farcas | Ndapa Nakashole

pdfbibabs
Leveraging Type Descriptions for Zero-shot Named Entity Recognition and Classification
Rami Aly | Andreas Vlachos | Ryan McDonald

pdfbibabs
MECT: Multi-Metadata Embedding based Cross-Transformer for Chinese Named Entity Recognition
Shuang Wu | Xiaoning Song | Zhenhua Feng

pdfbibabs
Factuality Assessment as Modal Dependency Parsing
Jiarui Yao | Haoling Qiu | Jin Zhao | Bonan Min | Nianwen Xue

pdfbibabs
Directed Acyclic Graph Network for Conversational Emotion Recognition
Weizhou Shen | Siyue Wu | Yunyi Yang | Xiaojun Quan

pdfbibabs
Improving Formality Style Transfer with Context-Aware Rule Injection
Zonghai Yao | Hong Yu

pdfbibabs
Topic-Driven and Knowledge-Aware Transformer for Dialogue Emotion Detection
Lixing Zhu | Gabriele Pergola | Lin Gui | Deyu Zhou | Yulan He

pdfbibabs
Syntopical Graphs for Computational Argumentation Tasks
Joe Barrow | Rajiv Jain | Nedim Lipka | Franck Dernoncourt | Vlad Morariu | Varun Manjunatha | Douglas Oard | Philip Resnik | Henning Wachsmuth

pdfbibabs
Stance Detection in COVID-19 Tweets
Kyle Glandt | Sarthak Khanal | Yingjie Li | Doina Caragea | Cornelia Caragea

pdfbibabs
Topic-Aware Evidence Reasoning and Stance-Aware Aggregation for Fact Verification
Jiasheng Si | Deyu Zhou | Tongzhe Li | Xingyu Shi | Yulan He

pdfbibabs
Changes in European Solidarity Before and During COVID-19: Evidence from a Large Crowd- and Expert-Annotated Twitter Dataset
Alexandra Ils | Dan Liu | Daniela Grunow | Steffen Eger

pdfbibabs
Measuring Conversational Uptake: A Case Study on Student-Teacher Interactions
Dorottya Demszky | Jing Liu | Zid Mancenido | Julie Cohen | Heather Hill | Dan Jurafsky | Tatsunori Hashimoto

pdfbibabs
A Survey of Code-switching: Linguistic and Social Perspectives for Language Technologies
A. Seza Doğruöz | Sunayana Sitaram | Barbara E. Bullock | Almeida Jacqueline Toribio

pdfbibabs
Learning from the Worst: Dynamically Generated Datasets to Improve Online Hate Detection
Bertie Vidgen | Tristan Thrush | Zeerak Waseem | Douwe Kiela

pdfbibabs
InfoSurgeon: Cross-Media Fine-grained Information Consistency Checking for Fake News Detection
Yi Fung | Christopher Thomas | Revanth Gangi Reddy | Sandeep Polisetty | Heng Ji | Shih-Fu Chang | Kathleen McKeown | Mohit Bansal | Avi Sil

pdfbibabs
I like fish, especially dolphins: Addressing Contradictions in Dialogue Modeling
Yixin Nie | Mary Williamson | Mohit Bansal | Douwe Kiela | Jason Weston

pdfbibabs
A Sequence-to-Sequence Approach to Dialogue State Tracking
Yue Feng | Yang Wang | Hang Li

pdfbibabs
Discovering Dialog Structure Graph for Coherent Dialog Generation
Jun Xu | Zeyang Lei | Haifeng Wang | Zheng-Yu Niu | Hua Wu | Wanxiang Che

pdfbibabs
Dialogue Response Selection with Hierarchical Curriculum Learning
Yixuan Su | Deng Cai | Qingyu Zhou | Zibo Lin | Simon Baker | Yunbo Cao | Shuming Shi | Nigel Collier | Yan Wang

pdfbibabs
A Joint Model for Dropped Pronoun Recovery and Conversational Discourse Parsing in Chinese Conversational Speech
Jingxuan Yang | Kerui Xu | Jun Xu | Si Li | Sheng Gao | Jun Guo | Nianwen Xue | Ji-Rong Wen

pdfbibabs
A Systematic Investigation of KB-Text Embedding Alignment at Scale
Vardaan Pahuja | Yu Gu | Wenhu Chen | Mehdi Bahrami | Lei Liu | Wei-Peng Chen | Yu Su

pdfbibabs
Named Entity Recognition with Small Strongly Labeled and Large Weakly Labeled Data
Haoming Jiang | Danqing Zhang | Tianyu Cao | Bing Yin | Tuo Zhao

pdfbibabs
Ultra-Fine Entity Typing with Weak Supervision from a Masked Language Model
Hongliang Dai | Yangqiu Song | Haixun Wang

pdfbibabs
Improving Named Entity Recognition by External Context Retrieving and Cooperative Learning
Xinyu Wang | Yong Jiang | Nguyen Bach | Tao Wang | Zhongqiang Huang | Fei Huang | Kewei Tu

pdfbibabs
Implicit Representations of Meaning in Neural Language Models
Belinda Z. Li | Maxwell Nye | Jacob Andreas

pdfbibabs
Causal Analysis of Syntactic Agreement Mechanisms in Neural Language Models
Matthew Finlayson | Aaron Mueller | Sebastian Gehrmann | Stuart Shieber | Tal Linzen | Yonatan Belinkov

pdfbibabs
Bird's Eye: Probing for Linguistic Graph Structures with a Simple Information-Theoretic Approach
Yifan Hou | Mrinmaya Sachan

pdfbibabs
Knowledgeable or Educated Guess? Revisiting Language Models as Knowledge Bases
Boxi Cao | Hongyu Lin | Xianpei Han | Le Sun | Lingyong Yan | Meng Liao | Tong Xue | Jin Xu

pdfbibabs
Poisoning Knowledge Graph Embeddings via Relation Inference Patterns
Peru Bhardwaj | John Kelleher | Luca Costabello | Declan O'Sullivan

pdfbibabs
Bad Seeds: Evaluating Lexical Methods for Bias Measurement
Maria Antoniak | David Mimno

pdfbibabs
A Survey of Race, Racism, and Anti-Racism in NLP
Anjalie Field | Su Lin Blodgett | Zeerak Waseem | Yulia Tsvetkov

pdfbibabs
Intrinsic Bias Metrics Do Not Correlate with Application Bias
Seraphina Goldfarb-Tarrant | Rebecca Marchant | Ricardo Muñoz Sánchez | Mugdha Pandya | Adam Lopez

pdfbibabs
RedditBias: A Real-World Resource for Bias Evaluation and Debiasing of Conversational Language Models
Soumya Barikeri | Anne Lauscher | Ivan Vulić | Goran Glavaš

pdfbibabs
Contributions of Transformer Attention Heads in Multi- and Cross-lingual Tasks
Weicheng Ma | Kai Zhang | Renze Lou | Lili Wang | Soroush Vosoughi

pdfbibabs
Crafting Adversarial Examples for Neural Machine Translation
Xinze Zhang | Junzhe Zhang | Zhenhua Chen | Kun He

pdfbibabs
UXLA: A Robust Unsupervised Data Augmentation Framework for Zero-Resource Cross-Lingual NLP
M Saiful Bari | Tasnim Mohiuddin | Shafiq Joty

pdfbibabs
Glancing Transformer for Non-Autoregressive Neural Machine Translation
Lihua Qian | Hao Zhou | Yu Bao | Mingxuan Wang | Lin Qiu | Weinan Zhang | Yong Yu | Lei Li

pdfbibabs
Hierarchical Context-aware Network for Dense Video Event Captioning
Lei Ji | Xianglin Guo | Haoyang Huang | Xilin Chen

pdfbibabs
Control Image Captioning Spatially and Temporally
Kun Yan | Lei Ji | Huaishao Luo | Ming Zhou | Nan Duan | Shuai Ma

pdfbibabs
Edited Media Understanding Frames: Reasoning About the Intent and Implications of Visual Misinformation
Jeff Da | Maxwell Forbes | Rowan Zellers | Anthony Zheng | Jena D. Hwang | Antoine Bosselut | Yejin Choi

pdfbibabs
PIGLeT: Language Grounding Through Neuro-Symbolic Interaction in a 3D World
Rowan Zellers | Ari Holtzman | Matthew Peters | Roozbeh Mottaghi | Aniruddha Kembhavi | Ali Farhadi | Yejin Choi

pdfbibabs
Modeling Fine-Grained Entity Types with Box Embeddings
Yasumasa Onoe | Michael Boratko | Andrew McCallum | Greg Durrett

pdfbibabs
ChineseBERT: Chinese Pretraining Enhanced by Glyph and Pinyin Information
Zijun Sun | Xiaoya Li | Xiaofei Sun | Yuxian Meng | Xiang Ao | Qing He | Fei Wu | Jiwei Li

pdfbibabs
Weight Distillation: Transferring the Knowledge in Neural Network Parameters
Ye Lin | Yanyang Li | Ziyang Wang | Bei Li | Quan Du | Tong Xiao | Jingbo Zhu

pdfbibabs
Optimizing Deeper Transformers on Small Datasets
Peng Xu | Dhruv Kumar | Wei Yang | Wenjie Zi | Keyi Tang | Chenyang Huang | Jackie Chi Kit Cheung | Simon J.D. Prince | Yanshuai Cao

pdfbibabs
BERTAC: Enhancing Transformer-based Language Models with Adversarially Pretrained Convolutional Neural Networks
Jong-Hoon Oh | Ryu Iida | Julien Kloetzer | Kentaro Torisawa

pdfbibabs
COVID-Fact: Fact Extraction and Verification of Real-World Claims on COVID-19 Pandemic
Arkadiy Saakyan | Tuhin Chakrabarty | Smaranda Muresan

pdfbibabs
Explaining Relationships Between Scientific Documents
Kelvin Luu | Xinyi Wu | Rik Koncel-Kedziorski | Kyle Lo | Isabel Cachola | Noah A. Smith

pdfbibabs
IrEne: Interpretable Energy Prediction for Transformers
Qingqing Cao | Yash Kumar Lal | Harsh Trivedi | Aruna Balasubramanian | Niranjan Balasubramanian

pdfbibabs
Mitigating Bias in Session-based Cyberbullying Detection: A Non-Compromising Approach
Lu Cheng | Ahmadreza Mosallanezhad | Yasin Silva | Deborah Hall | Huan Liu

pdfbibabs
PlotCoder: Hierarchical Decoding for Synthesizing Visualization Code in Programmatic Context
Xinyun Chen | Linyuan Gong | Alvin Cheung | Dawn Song

pdfbibabs
Changing the World by Changing the Data
Anna Rogers

pdfbibabs
EarlyBERT: Efficient BERT Training via Early-bird Lottery Tickets
Xiaohan Chen | Yu Cheng | Shuohang Wang | Zhe Gan | Zhangyang Wang | Jingjing Liu

pdfbibabs
On the Effectiveness of Adapter-based Tuning for Pretrained Language Model Adaptation
Ruidan He | Linlin Liu | Hai Ye | Qingyu Tan | Bosheng Ding | Liying Cheng | Jiawei Low | Lidong Bing | Luo Si

pdfbibabs
Data Augmentation for Text Generation Without Any Augmented Data
Wei Bi | Huayang Li | Jiacheng Huang

pdfbibabs
Integrating Semantics and Neighborhood Information with Graph-Driven Generative Models for Document Retrieval
Zijing Ou | Qinliang Su | Jianxing Yu | Bang Liu | Jingwen Wang | Ruihui Zhao | Changyou Chen | Yefeng Zheng

pdfbibabs
SMURF: SeMantic and linguistic UndeRstanding Fusion for Caption Evaluation via Typicality Analysis
Joshua Feinglass | Yezhou Yang

pdfbibabs
KaggleDBQA: Realistic Evaluation of Text-to-SQL Parsers
Chia-Hsuan Lee | Oleksandr Polozov | Matthew Richardson

pdfbibabs
QASR: QCRI Aljazeera Speech Resource A Large Scale Annotated Arabic Speech Corpus
Hamdy Mubarak | Amir Hussein | Shammur Absar Chowdhury | Ahmed Ali

pdfbibabs
An Empirical Study on Hyperparameter Optimization for Fine-Tuning Pre-trained Language Models
Xueqing Liu | Chi Wang

pdfbibabs
Better than Average: Paired Evaluation of NLP systems
Maxime Peyrard | Wei Zhao | Steffen Eger | Robert West

pdfbibabs
Chase: A Large-Scale and Pragmatic Chinese Dataset for Cross-Database Context-Dependent Text-to-SQL
Jiaqi Guo | Ziliang Si | Yu Wang | Qian Liu | Ming Fan | Jian-Guang Lou | Zijiang Yang | Ting Liu

pdfbibabs
CLINE: Contrastive Learning with Semantic Negative Examples for Natural Language Understanding
Dong Wang | Ning Ding | Piji Li | Haitao Zheng

pdfbibabs
Tree-Structured Topic Modeling with Nonparametric Neural Variational Inference
Ziye Chen | Cheng Ding | Zusheng Zhang | Yanghui Rao | Haoran Xie

pdfbibabs
ExCAR: Event Graph Knowledge Enhanced Explainable Causal Reasoning
Li Du | Xiao Ding | Kai Xiong | Ting Liu | Bing Qin

pdfbibabs
Distributed Representations of Emotion Categories in Emotion Space
Xiangyu Wang | Chengqing Zong

pdfbibabs
Style is NOT a single variable: Case Studies for Cross-Stylistic Language Understanding
Dongyeop Kang | Eduard Hovy

pdfbibabs
DynaSent: A Dynamic Benchmark for Sentiment Analysis
Christopher Potts | Zhengxuan Wu | Atticus Geiger | Douwe Kiela

pdfbibabs
A Hierarchical VAE for Calibrating Attributes while Generating Text using Normalizing Flow
Bidisha Samanta | Mohit Agrawal | NIloy Ganguly

pdfbibabs
A Unified Generative Framework for Aspect-based Sentiment Analysis
Hang Yan | Junqi Dai | Tuo Ji | Xipeng Qiu | Zheng Zhang

pdfbibabs
Discovering Dialogue Slots with Weak Supervision
Vojtěch Hudeček | Ondřej Dušek | Zhou Yu

pdfbibabs
Enhancing the generalization for Intent Classification and Out-of-Domain Detection in SLU
Yilin Shen | Yen-Chang Hsu | Avik Ray | Hongxia Jin

pdfbibabs
ProtAugment: Intent Detection Meta-Learning through Unsupervised Diverse Paraphrasing
Thomas Dopierre | Christophe Gravier | Wilfried Logerais

pdfbibabs
Robustness Testing of Language Understanding in Task-Oriented Dialog
Jiexi Liu | Ryuichi Takanobu | Jiaxin Wen | Dazhen Wan | Hongguang Li | Weiran Nie | Cheng Li | Wei Peng | Minlie Huang

pdfbibabs
Comprehensive Study: How the Context Information of Different Granularity Affects Dialogue State Tracking?
Puhai Yang | Heyan Huang | Xian-Ling Mao

pdfbibabs
OTTers: One-turn Topic Transitions for Open-Domain Dialogue
Karin Sevegnani | David M. Howcroft | Ioannis Konstas | Verena Rieser

pdfbibabs
Towards Robustness of Text-to-SQL Models against Synonym Substitution
Yujian Gan | Xinyun Chen | Qiuping Huang | Matthew Purver | John R. Woodward | Jinxia Xie | Pengsheng Huang

pdfbibabs
KACE: Generating Knowledge Aware Contrastive Explanations for Natural Language Inference
Qianglong Chen | Feng Ji | Xiangji Zeng | Feng-Lin Li | Ji Zhang | Haiqing Chen | Yin Zhang

pdfbibabs
Self-Guided Contrastive Learning for BERT Sentence Representations
Taeuk Kim | Kang Min Yoo | Sang-goo Lee

pdfbibabs
LGESQL: Line Graph Enhanced Text-to-SQL Model with Mixed Local and Non-Local Relations
Ruisheng Cao | Lu Chen | Zhi Chen | Yanbin Zhao | Su Zhu | Kai Yu

pdfbibabs
Multi-stage Pre-training over Simplified Multimodal Pre-training Models
Tongtong Liu | Fangxiang Feng | Xiaojie Wang

pdfbibabs
Beyond Sentence-Level End-to-End Speech Translation: Context Helps
Biao Zhang | Ivan Titov | Barry Haddow | Rico Sennrich

pdfbibabs
LayoutLMv2: Multi-modal Pre-training for Visually-rich Document Understanding
Yang Xu | Yiheng Xu | Tengchao Lv | Lei Cui | Furu Wei | Guoxin Wang | Yijuan Lu | Dinei Florencio | Cha Zhang | Wanxiang Che | Min Zhang | Lidong Zhou

pdfbibabs
UNIMO: Towards Unified-Modal Understanding and Generation via Cross-Modal Contrastive Learning
Wei Li | Can Gao | Guocheng Niu | Xinyan Xiao | Hao Liu | Jiachen Liu | Hua Wu | Haifeng Wang

pdfbibabs
Missing Modality Imagination Network for Emotion Recognition with Uncertain Missing Modalities
Jinming Zhao | Ruichen Li | Qin Jin

pdfbibabs
Stacked Acoustic-and-Textual Encoding: Integrating the Pre-trained Models into Speech Translation Encoders
Chen Xu | Bojie Hu | Yanyang Li | Yuhao Zhang | Shen Huang | Qi Ju | Tong Xiao | Jingbo Zhu

pdfbibabs
N-ary Constituent Tree Parsing with Recursive Semi-Markov Model
Xin Xin | Jinlong Li | Zeqi Tan

pdfbibabs
Automated Concatenation of Embeddings for Structured Prediction
Xinyu Wang | Yong Jiang | Nguyen Bach | Tao Wang | Zhongqiang Huang | Fei Huang | Kewei Tu

pdfbibabs
Multi-View Cross-Lingual Structured Prediction with Minimum Supervision
Zechuan Hu | Yong Jiang | Nguyen Bach | Tao Wang | Zhongqiang Huang | Fei Huang | Kewei Tu

pdfbibabs
The Limitations of Limited Context for Constituency Parsing
Yuchen Li | Andrej Risteski

pdfbibabs
Neural Bi-Lexicalized PCFG Induction
Songlin Yang | Yanpeng Zhao | Kewei Tu

pdfbibabs
Ruddit: Norms of Offensiveness for English Reddit Comments
Rishav Hada | Sohi Sudhir | Pushkar Mishra | Helen Yannakoudakis | Saif M. Mohammad | Ekaterina Shutova

pdfbibabs
Towards Quantifiable Dialogue Coherence Evaluation
Zheng Ye | Liucun Lu | Lishan Huang | Liang Lin | Xiaodan Liang

pdfbibabs
Assessing the Representations of Idiomaticity in Vector Models with a Noun Compound Dataset Labeled at Type and Token Levels
Marcos Garcia | Tiago Kramer Vieira | Carolina Scarton | Marco Idiart | Aline Villavicencio

pdfbibabs
Factoring Statutory Reasoning as Language Understanding Challenges
Nils Holzenberger | Benjamin Van Durme

pdfbibabs
Evaluating Evaluation Measures for Ordinal Classification and Ordinal Quantification
Tetsuya Sakai

pdfbibabs
Interpretable and Low-Resource Entity Matching via Decoupling Feature Learning from Decision Making
Zijun Yao | Chengjiang Li | Tiansi Dong | Xin Lv | Jifan Yu | Lei Hou | Juanzi Li | Yichi Zhang | Zelin Dai

pdfbibabs
Locate and Label: A Two-stage Identifier for Nested Named Entity Recognition
Yongliang Shen | Xinyin Ma | Zeqi Tan | Shuai Zhang | Wen Wang | Weiming Lu

pdfbibabs
Text2Event: Controllable Sequence-to-Structure Generation for End-to-end Event Extraction
Yaojie Lu | Hongyu Lin | Jin Xu | Xianpei Han | Jialong Tang | Annan Li | Le Sun | Meng Liao | Shaoyi Chen

pdfbibabs
A Large-Scale Chinese Multimodal NER Dataset with Speech Clues
Dianbo Sui | Zhengkun Tian | Yubo Chen | Kang Liu | Jun Zhao

pdfbibabs
A Neural Transition-based Joint Model for Disease Named Entity Recognition and Normalization
Zongcheng Ji | Tian Xia | Mei Han | Jing Xiao

pdfbibabs
OntoED: Low-resource Event Detection with Ontology Embedding
Shumin Deng | Ningyu Zhang | Luoqiu Li | Chen Hui | Tou Huaixiao | Mosha Chen | Fei Huang | Huajun Chen

pdfbibabs
Self-Training Sampling with Monolingual Data Uncertainty for Neural Machine Translation
Wenxiang Jiao | Xing Wang | Zhaopeng Tu | Shuming Shi | Michael Lyu | Irwin King

pdfbibabs
Breaking the Corpus Bottleneck for Context-Aware Neural Machine Translation with Cross-Task Pre-training
Linqing Chen | Junhui Li | Zhengxian Gong | Boxing Chen | Weihua Luo | Min Zhang | Guodong Zhou

pdfbibabs
Guiding Teacher Forcing with Seer Forcing for Neural Machine Translation
Yang Feng | Shuhao Gu | Dengji Guo | Zhengxin Yang | Chenze Shao

pdfbibabs
Cascade versus Direct Speech Translation: Do the Differences Still Make a Difference?
Luisa Bentivogli | Mauro Cettolo | Marco Gaido | Alina Karakanta | Alberto Martinelli | Matteo Negri | Marco Turchi

pdfbibabs
Unsupervised Neural Machine Translation for Low-Resource Domains via Meta-Learning
Cheonbok Park | Yunwon Tae | TaeHee Kim | Soyoung Yang | Mohammad Azam Khan | Lucy Park | Jaegul Choo

pdfbibabs
Lightweight Cross-Lingual Sentence Representation Learning
Zhuoyuan Mao | Prakhar Gupta | Chenhui Chu | Martin Jaggi | Sadao Kurohashi

pdfbibabs
ERNIE-Doc: A Retrospective Long-Document Modeling Transformer
SiYu Ding | Junyuan Shang | Shuohuan Wang | Yu Sun | Hao Tian | Hua Wu | Haifeng Wang

pdfbibabs
Marginal Utility Diminishes: Exploring the Minimum Knowledge for BERT Knowledge Distillation
Yuanxin Liu | Fandong Meng | Zheng Lin | Weiping Wang | Jie Zhou

pdfbibabs
Rational LAMOL: A Rationale-based Lifelong Learning Framework
Kasidis Kanwatchara | Thanapapas Horsuwan | Piyawat Lertvittayakumjorn | Boonserm Kijsirikul | Peerapon Vateekul

pdfbibabs
EnsLM: Ensemble Language Model for Data Diversity by Semantic Clustering
Zhibin Duan | Hao Zhang | Chaojie Wang | Zhengjue Wang | Bo Chen | Mingyuan Zhou

pdfbibabs
LeeBERT: Learned Early Exit for BERT with cross-level optimization
Wei Zhu

pdfbibabs
Unsupervised Extractive Summarization-Based Representations for Accurate and Explainable Collaborative Filtering
Reinald Adrian Pugoy | Hung-Yu Kao

pdfbibabs
PLOME: Pre-training with Misspelled Knowledge for Chinese Spelling Correction
Shulin Liu | Tao Yang | Tianchi Yue | Feng Zhang | Di Wang

pdfbibabs
Competence-based Multimodal Curriculum Learning for Medical Report Generation
Fenglin Liu | Shen Ge | Xian Wu

pdfbibabs
Learning Syntactic Dense Embedding with Correlation Graph for Automatic Readability Assessment
Xinying Qiu | Yuan Chen | Hanwu Chen | Jian-Yun Nie | Yuming Shen | Dawei Lu

pdfbibabs
Meta-KD: A Meta Knowledge Distillation Framework for Language Model Compression across Domains
Haojie Pan | Chengyu Wang | Minghui Qiu | Yichang Zhang | Yaliang Li | Jun Huang

pdfbibabs
A Semantic-based Method for Unsupervised Commonsense Question Answering
Yilin Niu | Fei Huang | Jiaming Liang | Wenkai Chen | Xiaoyan Zhu | Minlie Huang

pdfbibabs
Explanations for CommonsenseQA: New Dataset and Models
Shourya Aggarwal | Divyanshu Mandowara | Vishwajeet Agrawal | Dinesh Khandelwal | Parag Singla | Dinesh Garg

pdfbibabs
Few-Shot Question Answering by Pretraining Span Selection
Ori Ram | Yuval Kirstain | Jonathan Berant | Amir Globerson | Omer Levy

pdfbibabs
UnitedQA: A Hybrid Approach for Open Domain Question Answering
Hao Cheng | Yelong Shen | Xiaodong Liu | Pengcheng He | Weizhu Chen | Jianfeng Gao

pdfbibabs
Database reasoning over text
James Thorne | Majid Yazdani | Marzieh Saeidi | Fabrizio Silvestri | Sebastian Riedel | Alon Halevy

pdfbibabs
Online Learning Meets Machine Translation Evaluation: Finding the Best Systems with the Least Human Effort
Vânia Mendonça | Ricardo Rei | Luisa Coheur | Alberto Sardinha | Ana Lúcia Santos

pdfbibabs
How Good is Your Tokenizer? On the Monolingual Performance of Multilingual Language Models
Phillip Rust | Jonas Pfeiffer | Ivan Vulić | Sebastian Ruder | Iryna Gurevych

pdfbibabs
Evaluating morphological typology in zero-shot cross-lingual transfer
Antonio Martínez-García | Toni Badia | Jeremy Barnes

pdfbibabs
From Machine Translation to Code-Switching: Generating High-Quality Code-Switched Text
Ishan Tarunesh | Syamantak Kumar | Preethi Jyothi

pdfbibabs
Fast and Accurate Neural Machine Translation with Translation Memory
Qiuxiang He | Guoping Huang | Qu Cui | Li Li | Lemao Liu

pdfbibabs
Annotating Online Misogyny
Philine Zeinert | Nanna Inie | Leon Derczynski

pdfbibabs
Few-NERD: A Few-shot Named Entity Recognition Dataset
Ning Ding | Guangwei Xu | Yulin Chen | Xiaobin Wang | Xu Han | Pengjun Xie | Haitao Zheng | Zhiyuan Liu

pdfbibabs
MultiMET: A Multimodal Dataset for Metaphor Understanding
Dongyu Zhang | Minghao Zhang | Heting Zhang | Liang Yang | Hongfei Lin

pdfbibabs
Human-in-the-Loop for Data Collection: a Multi-Target Counter Narrative Dataset to Fight Online Hate Speech
Margherita Fanton | Helena Bonaldi | Serra Sinem Tekiroğlu | Marco Guerini

pdfbibabs
Can Generative Pre-trained Language Models Serve As Knowledge Bases for Closed-book QA?
Cunxiang Wang | Pai Liu | Yue Zhang

pdfbibabs
Joint Models for Answer Verification in Question Answering Systems
Zeyu Zhang | Thuy Vu | Alessandro Moschitti

pdfbibabs
Answering Ambiguous Questions through Generative Evidence Fusion and Round-Trip Prediction
Yifan Gao | Henghui Zhu | Patrick Ng | Cicero Nogueira dos Santos | Zhiguo Wang | Feng Nan | Dejiao Zhang | Ramesh Nallapati | Andrew O. Arnold | Bing Xiang

pdfbibabs
TAT-QA: A Question Answering Benchmark on a Hybrid of Tabular and Textual Content in Finance
Fengbin Zhu | Wenqiang Lei | Youcheng Huang | Chao Wang | Shuo Zhang | Jiancheng Lv | Fuli Feng | Tat-Seng Chua

pdfbibabs
Modeling Transitions of Focal Entities for Conversational Knowledge Base Question Answering
Yunshi Lan | Jing Jiang

pdfbibabs
Evidence-based Factual Error Correction
James Thorne | Andreas Vlachos

pdfbibabs
Probabilistic, Structure-Aware Algorithms for Improved Variety, Accuracy, and Coverage of AMR Alignments
Austin Blodgett | Nathan Schneider

pdfbibabs
Meta-Learning to Compositionally Generalize
Henry Conklin | Bailin Wang | Kenny Smith | Ivan Titov

pdfbibabs
Taming Pre-trained Language Models with N-gram Representations for Low-Resource Domain Adaptation
Shizhe Diao | Ruijia Xu | Hongjin Su | Yilei Jiang | Yan Song | Tong Zhang

pdfbibabs
ERICA: Improving Entity and Relation Understanding for Pre-trained Language Models via Contrastive Learning
Yujia Qin | Yankai Lin | Ryuichi Takanobu | Zhiyuan Liu | Peng Li | Heng Ji | Minlie Huang | Maosong Sun | Jie Zhou

pdfbibabs
Position Bias Mitigation: A Knowledge-Aware Graph Model for Emotion Cause Extraction
Hanqi Yan | Lin Gui | Gabriele Pergola | Yulan He

pdfbibabs
Every Bite Is an Experience: Key Point Analysis of Business Reviews
Roy Bar-Haim | Lilach Eden | Yoav Kantor | Roni Friedman | Noam Slonim

pdfbibabs
Structured Sentiment Analysis as Dependency Graph Parsing
Jeremy Barnes | Robin Kurtz | Stephan Oepen | Lilja Øvrelid | Erik Velldal

pdfbibabs
Consistency Regularization for Cross-Lingual Fine-Tuning
Bo Zheng | Li Dong | Shaohan Huang | Wenhui Wang | Zewen Chi | Saksham Singhal | Wanxiang Che | Ting Liu | Xia Song | Furu Wei

pdfbibabs
Improving Pretrained Cross-Lingual Language Models via Self-Labeled Word Alignment
Zewen Chi | Li Dong | Bo Zheng | Shaohan Huang | Xian-Ling Mao | Heyan Huang | Furu Wei

pdfbibabs
Rejuvenating Low-Frequency Words: Making the Most of Parallel Data in Non-Autoregressive Translation
Liang Ding | Longyue Wang | Xuebo Liu | Derek F. Wong | Dacheng Tao | Zhaopeng Tu

pdfbibabs
G-Transformer for Document-Level Machine Translation
Guangsheng Bao | Yue Zhang | Zhiyang Teng | Boxing Chen | Weihua Luo

pdfbibabs
Prevent the Language Model from being Overconfident in Neural Machine Translation
Mengqi Miao | Fandong Meng | Yijin Liu | Xiao-Hua Zhou | Jie Zhou

pdfbibabs
Towards Emotional Support Dialog Systems
Siyang Liu | Chujie Zheng | Orianna Demasi | Sahand Sabour | Yu Li | Zhou Yu | Yong Jiang | Minlie Huang

pdfbibabs
Novel Slot Detection: A Benchmark for Discovering Unknown Slot Types in the Task-Oriented Dialogue System
Yanan Wu | Zhiyuan Zeng | Keqing He | Hong Xu | Yuanmeng Yan | Huixing Jiang | Weiran Xu

pdfbibabs
GTM: A Generative Triple-wise Model for Conversational Question Generation
Lei Shen | Fandong Meng | Jinchao Zhang | Yang Feng | Jie Zhou

pdfbibabs
Diversifying Dialog Generation via Adaptive Label Smoothing
Yida Wang | Yinhe Zheng | Yong Jiang | Minlie Huang

pdfbibabs
Out-of-Scope Intent Detection with Self-Supervision and Discriminative Training
Li-Ming Zhan | Haowen Liang | Bo Liu | Lu Fan | Xiao-Ming Wu | Albert Y.S. Lam

pdfbibabs
Document-level Event Extraction via Heterogeneous Graph-based Interaction Model with a Tracker
Runxin Xu | Tianyu Liu | Lei Li | Baobao Chang

pdfbibabs
Nested Named Entity Recognition via Explicitly Excluding the Influence of the Best Path
Yiran Wang | Hiroyuki Shindo | Yuji Matsumoto | Taro Watanabe

pdfbibabs
LearnDA: Learnable Knowledge-Guided Data Augmentation for Event Causality Identification
Xinyu Zuo | Pengfei Cao | Yubo Chen | Kang Liu | Jun Zhao | Weihua Peng | Yuguang Chen

pdfbibabs
Revisiting the Negative Data of Distantly Supervised Relation Extraction
Chenhao Xie | Jiaqing Liang | Jingping Liu | Chengsong Huang | Wenhao Huang | Yanghua Xiao

pdfbibabs
Knowing the No-match: Entity Alignment with Dangling Cases
Zequn Sun | Muhao Chen | Wei Hu

pdfbibabs
Superbizarre Is Not Superb: Derivational Morphology Improves BERT's Interpretation of Complex Words
Valentin Hofmann | Janet Pierrehumbert | Hinrich Schütze

pdfbibabs
BERT is to NLP what AlexNet is to CV: Can Pre-Trained Language Models Identify Analogies?
Asahi Ushio | Luis Espinosa Anke | Steven Schockaert | Jose Camacho-Collados

pdfbibabs
Exploring the Representation of Word Meanings in Context: A Case Study on Homonymy and Synonymy
Marcos Garcia

pdfbibabs
Measuring Fine-Grained Domain Relevance of Terms: A Hierarchical Core-Fringe Approach
Jie Huang | Kevin Chang | JinJun Xiong | Wen-mei Hwu

pdfbibabs
HERALD: An Annotation Efficient Method to Detect User Disengagement in Social Conversations
Weixin Liang | Kai-Hui Liang | Zhou Yu

pdfbibabs
Value-Agnostic Conversational Semantic Parsing
Emmanouil Antonios Platanios | Adam Pauls | Subhro Roy | Yuchen Zhang | Alexander Kyte | Alan Guo | Sam Thomson | Jayant Krishnamurthy | Jason Wolfe | Jacob Andreas | Dan Klein

pdfbibabs
MPC-BERT: A Pre-Trained Language Model for Multi-Party Conversation Understanding
Jia-Chen Gu | Chongyang Tao | Zhenhua Ling | Can Xu | Xiubo Geng | Daxin Jiang

pdfbibabs
Best of Both Worlds: Making High Accuracy Non-incremental Transformer-based Disfluency Detection Incremental
Morteza Rohanian | Julian Hough

pdfbibabs
NeuralWOZ: Learning to Collect Task-Oriented Dialogue via Model-Based Simulation
Sungdong Kim | Minsuk Chang | Sang-Woo Lee

pdfbibabs
CDRNN: Discovering Complex Dynamics in Human Language Processing
Cory Shain

pdfbibabs
Structural Guidance for Transformer Language Models
Peng Qian | Tahira Naseem | Roger Levy | Ramón Fernandez Astudillo

pdfbibabs
Surprisal Estimators for Human Reading Times Need Character Models
Byung-Doh Oh | Christian Clark | William Schuler

pdfbibabs
CogAlign: Learning to Align Textual Neural Representations to Cognitive Language Processing Signals
Yuqi Ren | Deyi Xiong

pdfbibabs
Self-Attention Networks Can Process Bounded Hierarchical Languages
Shunyu Yao | Binghui Peng | Christos Papadimitriou | Karthik Narasimhan

pdfbibabs
TextSETTR: Few-Shot Text Style Extraction and Tunable Targeted Restyling
Parker Riley | Noah Constant | Mandy Guo | Girish Kumar | David Uthus | Zarana Parekh

pdfbibabs
H-Transformer-1D: Fast One-Dimensional Hierarchical Attention for Sequences
Zhenhai Zhu | Radu Soricut

pdfbibabs
Making Pre-trained Language Models Better Few-shot Learners
Tianyu Gao | Adam Fisch | Danqi Chen

pdfbibabs
A Sweet Rabbit Hole by DARCY: Using Honeypots to Detect Universal Trigger's Adversarial Attacks
Thai Le | Noseong Park | Dongwon Lee

pdfbibabs
Towards Propagation Uncertainty: Edge-enhanced Bayesian Graph Convolutional Networks for Rumor Detection
Lingwei Wei | Dou Hu | Wei Zhou | Zhaojuan Yue | Songlin Hu

pdfbibabs
Label-Specific Dual Graph Neural Network for Multi-Label Text Classification
Qianwen Ma | Chunyuan Yuan | Wei Zhou | Songlin Hu

pdfbibabs
TAN-NTM: Topic Attention Networks for Neural Topic Modeling
Madhur Panwar | Shashank Shailabh | Milan Aggarwal | Balaji Krishnamurthy

pdfbibabs
Cross-language Sentence Selection via Data Augmentation and Rationale Training
Yanda Chen | Chris Kedzie | Suraj Nair | Petra Galuscakova | Rui Zhang | Douglas Oard | Kathleen McKeown

pdfbibabs
A Neural Model for Joint Document and Snippet Ranking in Question Answering for Large Document Collections
Dimitris Pappas | Ion Androutsopoulos

pdfbibabs
W-RST: Towards a Weighted RST-style Discourse Framework
Patrick Huber | Wen Xiao | Giuseppe Carenini

pdfbibabs
ABCD: A Graph Framework to Convert Complex Sentences to a Covering Set of Simple Sentences
Yanjun Gao | Ting-Hao Huang | Rebecca J. Passonneau

pdfbibabs
Which Linguist Invented the Lightbulb? Presupposition Verification for Question-Answering
Najoung Kim | Ellie Pavlick | Burcu Karagol Ayan | Deepak Ramachandran

pdfbibabs
Adversarial Learning for Discourse Rhetorical Structure Parsing
Longyin Zhang | Fang Kong | Guodong Zhou

pdfbibabs
Exploring Discourse Structures for Argument Impact Classification
Xin Liu | Jiefu Ou | Yangqiu Song | Xin Jiang

pdfbibabs
Point, Disambiguate and Copy: Incorporating Bilingual Dictionaries for Neural Machine Translation
Tong Zhang | Long Zhang | Wei Ye | Bo Li | Jinan Sun | Xiaoyu Zhu | Wen Zhao | Shikun Zhang

pdfbibabs
VECO: Variable and Flexible Cross-lingual Pre-training for Language Understanding and Generation
Fuli Luo | Wei Wang | Jiahao Liu | Yijia Liu | Bin Bi | Songfang Huang | Fei Huang | Luo Si

pdfbibabs
A unified approach to sentence segmentation of punctuated text in many languages
Rachel Wicks | Matt Post

pdfbibabs
Towards User-Driven Neural Machine Translation
Huan Lin | Liang Yao | Baosong Yang | Dayiheng Liu | Haibo Zhang | Weihua Luo | Degen Huang | Jinsong Su

pdfbibabs
End-to-End Lexically Constrained Machine Translation for Morphologically Rich Languages
Josef Jon | João Paulo Aires | Dusan Varis | Ondřej Bojar

pdfbibabs
Handling Extreme Class Imbalance in Technical Logbook Datasets
Farhad Akhbardeh | Cecilia Ovesdotter Alm | Marcos Zampieri | Travis Desell

pdfbibabs
ILDC for CJPE: Indian Legal Documents Corpus for Court Judgment Prediction and Explanation
Vijit Malik | Rishabh Sanjay | Shubham Kumar Nigam | Kripabandhu Ghosh | Shouvik Kumar Guha | Arnab Bhattacharya | Ashutosh Modi

pdfbibabs
Supporting Cognitive and Emotional Empathic Writing of Students
Thiemo Wambsganss | Christina Niklaus | Matthias Söllner | Siegfried Handschuh | Jan Marco Leimeister

pdfbibabs
Dual Reader-Parser on Hybrid Textual and Tabular Evidence for Open Domain Question Answering
Alexander Hanbo Li | Patrick Ng | Peng Xu | Henghui Zhu | Zhiguo Wang | Bing Xiang

pdfbibabs
Generation-Augmented Retrieval for Open-Domain Question Answering
Yuning Mao | Pengcheng He | Xiaodong Liu | Yelong Shen | Jianfeng Gao | Jiawei Han | Weizhu Chen

pdfbibabs
Check It Again:Progressive Visual Question Answering via Visual Entailment
Qingyi Si | Zheng Lin | Ming yu Zheng | Peng Fu | Weiping Wang

pdfbibabs
A Mutual Information Maximization Approach for the Spurious Solution Problem in Weakly Supervised Question Answering
Zhihong Shao | Lifeng Shang | Qun Liu | Minlie Huang

pdfbibabs
Breaking Down Walls of Text: How Can NLP Benefit Consumer Privacy?
Abhilasha Ravichander | Alan W Black | Thomas Norton | Shomir Wilson | Norman Sadeh

pdfbibabs
Supporting Land Reuse of Former Open Pit Mining Sites using Text Classification and Active Learning
Christopher Schröder | Kim Bürgl | Yves Annanias | Andreas Niekler | Lydia Müller | Daniel Wiegreffe | Christian Bender | Christoph Mengs | Gerik Scheuermann | Gerhard Heyer

pdfbibabs
Reliability Testing for Natural Language Processing Systems
Samson Tan | Shafiq Joty | Kathy Baxter | Araz Taeihagh | Gregory A. Bennett | Min-Yen Kan

pdfbibabs
Learning Language and Multimodal Privacy-Preserving Markers of Mood from Mobile Data
Paul Pu Liang | Terrance Liu | Anna Cai | Michal Muszynski | Ryo Ishii | Nick Allen | Randy Auerbach | David Brent | Ruslan Salakhutdinov | Louis-Philippe Morency

pdfbibabs
Anonymisation Models for Text Data: State of the art, Challenges and Future Directions
Pierre Lison | Ildikó Pilán | David Sanchez | Montserrat Batet | Lilja Øvrelid

pdfbibabs
End-to-End AMR Corefencence Resolution
Qiankun Fu | Linfeng Song | Wenyu Du | Yue Zhang

pdfbibabs
How is BERT surprised? Layerwise detection of linguistic anomalies
Bai Li | Zining Zhu | Guillaume Thomas | Yang Xu | Frank Rudzicz

pdfbibabs
Psycholinguistic Tripartite Graph Network for Personality Detection
Tao Yang | Feifan Yang | Haolan Ouyang | Xiaojun Quan

pdfbibabs
Verb Metaphor Detection via Contextual Relation Learning
Wei Song | Shuhui Zhou | Ruiji Fu | Ting Liu | Lizhen Liu

pdfbibabs
Improving Speech Translation by Understanding and Learning from the Auxiliary Text Translation Task
Yun Tang | Juan Pino | Xian Li | Changhan Wang | Dmitriy Genzel

pdfbibabs
Probing Toxic Content in Large Pre-Trained Language Models
Nedjma Ousidhoum | Xinran Zhao | Tianqing Fang | Yangqiu Song | Dit-Yan Yeung

pdfbibabs
Societal Biases in Language Generation: Progress and Challenges
Emily Sheng | Kai-Wei Chang | Prem Natarajan | Nanyun Peng

pdfbibabs
Reservoir Transformers
Sheng Shen | Alexei Baevski | Ari Morcos | Kurt Keutzer | Michael Auli | Douwe Kiela

pdfbibabs
Subsequence Based Deep Active Learning for Named Entity Recognition
Puria Radmard | Yassir Fathullah | Aldo Lipani

pdfbibabs
Convolutions and Self-Attention: Re-interpreting Relative Positions in Pre-trained Language Models
Tyler Chang | Yifan Xu | Weijian Xu | Zhuowen Tu

pdfbibabs
BinaryBERT: Pushing the Limit of BERT Quantization
Haoli Bai | Wei Zhang | Lu Hou | Lifeng Shang | Jin Jin | Xin Jiang | Qun Liu | Michael Lyu | Irwin King

pdfbibabs
Are Pretrained Convolutions Better than Pretrained Transformers?
Yi Tay | Mostafa Dehghani | Jai Prakash Gupta | Vamsi Aribandi | Dara Bahri | Zhen Qin | Donald Metzler

pdfbibabs
PairRE: Knowledge Graph Embeddings via Paired Relation Vectors
Linlin Chao | Jianshan He | Taifeng Wang | Wei Chu

pdfbibabs
Hierarchy-aware Label Semantics Matching Network for Hierarchical Text Classification
Haibin Chen | Qianli Ma | Zhenxi Lin | Jiangyue Yan

pdfbibabs
HiddenCut: Simple Data Augmentation for Natural Language Understanding with Better Generalizability
Jiaao Chen | Dinghan Shen | Weizhu Chen | Diyi Yang

pdfbibabs
Neural Stylistic Response Generation with Disentangled Latent Variables
Qingfu Zhu | Wei-Nan Zhang | Ting Liu | William Yang Wang

pdfbibabs
Intent Classification and Slot Filling for Privacy Policies
Wasi Ahmad | Jianfeng Chi | Tu Le | Thomas Norton | Yuan Tian | Kai-Wei Chang

pdfbibabs
RADDLE: An Evaluation Benchmark and Analysis Platform for Robust Task-oriented Dialog Systems
Baolin Peng | Chunyuan Li | Zhu Zhang | Chenguang Zhu | Jinchao Li | Jianfeng Gao

pdfbibabs
Semantic Representation for Dialogue Modeling
Xuefeng Bai | Yulong Chen | Linfeng Song | Yue Zhang

pdfbibabs
A Pre-training Strategy for Zero-Resource Response Selection in Knowledge-Grounded Conversations
Chongyang Tao | Changyu Chen | Jiazhan Feng | Ji-Rong Wen | Rui Yan

pdfbibabs
Dependency-driven Relation Extraction with Attentive Graph Convolutional Networks
Yuanhe Tian | Guimin Chen | Yan Song | Xiang Wan

pdfbibabs
Evaluating Entity Disambiguation and the Role of Popularity in Retrieval-Based NLP
Anthony Chen | Pallavi Gudipati | Shayne Longpre | Xiao Ling | Sameer Singh

pdfbibabs
Evaluation Examples are not Equally Informative: How should that change NLP Leaderboards?
Pedro Rodriguez | Joe Barrow | Alexander Miserlis Hoyle | John P. Lalor | Robin Jia | Jordan Boyd-Graber

pdfbibabs
Claim Matching Beyond English to Scale Global Fact-Checking
Ashkan Kazemi | Kiran Garimella | Devin Gaffney | Scott Hale

pdfbibabs
SemFace: Pre-training Encoder and Decoder with a Semantic Interface for Neural Machine Translation
Shuo Ren | Long Zhou | Shujie Liu | Furu Wei | Ming Zhou | Shuai Ma

pdfbibabs
Energy-Based Reranking: Improving Neural Machine Translation Using Energy-Based Models
Sumanta Bhattacharyya | Amirmohammad Rooshenas | Subhajit Naskar | Simeng Sun | Mohit Iyyer | Andrew McCallum

pdfbibabs
Syntax-augmented Multilingual BERT for Cross-lingual Transfer
Wasi Ahmad | Haoran Li | Kai-Wei Chang | Yashar Mehdad

pdfbibabs
How to Adapt Your Pretrained Multilingual Model to 1600 Languages
Abteen Ebrahimi | Katharina Kann

pdfbibabs
Weakly Supervised Named Entity Tagging with Learnable Logical Rules
Jiacheng Li | Haibo Ding | Jingbo Shang | Julian McAuley | Zhe Feng

pdfbibabs
Prefix-Tuning: Optimizing Continuous Prompts for Generation
Xiang Lisa Li | Percy Liang

pdfbibabs
One2Set: Generating Diverse Keyphrases as a Set
Jiacheng Ye | Tao Gui | Yichao Luo | Yige Xu | Qi Zhang

pdfbibabs
Continuous Language Generative Flow
Zineng Tang | Shiyue Zhang | Hyounghun Kim | Mohit Bansal

pdfbibabs
TWAG: A Topic-Guided Wikipedia Abstract Generator
Fangwei Zhu | Shangqing Tu | Jiaxin Shi | Juanzi Li | Lei Hou | Tong Cui

pdfbibabs
ForecastQA: A Question Answering Challenge for Event Forecasting with Temporal Text Data
Woojeong Jin | Rahul Khanna | Suji Kim | Dong-Ho Lee | Fred Morstatter | Aram Galstyan | Xiang Ren

pdfbibabs
Recursive Tree-Structured Self-Attention for Answer Sentence Selection
Khalil Mrini | Emilia Farcas | Ndapa Nakashole

pdfbibabs
How Knowledge Graph and Attention Help? A Qualitative Analysis into Bag-level Relation Extraction
Zikun Hu | Yixin Cao | Lifu Huang | Tat-Seng Chua

pdfbibabs
Trigger is Not Sufficient: Exploiting Frame-aware Knowledge for Implicit Event Argument Extraction
Kaiwen Wei | Xian Sun | Zequn Zhang | Jingyuan Zhang | Guo Zhi | Li Jin

pdfbibabs
Element Intervention for Open Relation Extraction
Fangchao Liu | Lingyong Yan | Hongyu Lin | Xianpei Han | Le Sun

pdfbibabs
AdaTag: Multi-Attribute Value Extraction from Product Profiles with Adaptive Decoding
Jun Yan | Nasser Zalmout | Yan Liang | Christan Grant | Xiang Ren | Xin Luna Dong

pdfbibabs
CoRI: Collective Relation Integration with Data Augmentation for Open Information Extraction
Zhengbao Jiang | Jialong Han | Bunyamin Sisman | Xin Luna Dong

pdfbibabs
Benchmarking Scalable Methods for Streaming Cross Document Entity Coreference
Robert L Logan IV | Andrew McCallum | Sameer Singh | Dan Bikel

pdfbibabs
Search from History and Reason for Future: Two-stage Reasoning on Temporal Knowledge Graphs
Zixuan Li | Xiaolong Jin | Saiping Guan | Wei Li | Jiafeng Guo | Yuanzhuo Wang | Xueqi Cheng

pdfbibabs
Employing Argumentation Knowledge Graphs for Neural Argument Generation
Khalid Al Khatib | Lukas Trautner | Henning Wachsmuth | Yufang Hou | Benno Stein

pdfbibabs
Learning Span-Level Interactions for Aspect Sentiment Triplet Extraction
Lu Xu | Yew Ken Chia | Lidong Bing

pdfbibabs
On Compositional Generalization of Neural Machine Translation
Yafu Li | Yongjing Yin | Yulong Chen | Yue Zhang

pdfbibabs
Mask-Align: Self-Supervised Neural Word Alignment
Chi Chen | Maosong Sun | Yang Liu

pdfbibabs
GWLAN: General Word-Level AutocompletioN for Computer-Aided Translation
Huayang Li | Lemao Liu | Guoping Huang | Shuming Shi

pdfbibabs
De-biasing Distantly Supervised Named Entity Recognition via Causal Intervention
Wenkai Zhang | Hongyu Lin | Xianpei Han | Le Sun

pdfbibabs
A Span-Based Model for Joint Overlapped and Discontinuous Named Entity Recognition
Fei Li | ZhiChao Lin | Meishan Zhang | Donghong Ji

pdfbibabs
MLBiNet: A Cross-Sentence Collective Event Detection Network
Dongfang Lou | Zhilin Liao | Shumin Deng | Ningyu Zhang | Huajun Chen

pdfbibabs
Exploiting Document Structures and Cluster Consistencies for Event Coreference Resolution
Hieu Minh Tran | Duy Phung | Thien Huu Nguyen

pdfbibabs
StereoRel: Relational Triple Extraction from a Stereoscopic Perspective
Xuetao Tian | Liping Jing | Lu He | Feng Liu

pdfbibabs
Knowledge-Enriched Event Causality Identification via Latent Structure Induction Networks
Pengfei Cao | Xinyu Zuo | Yubo Chen | Kang Liu | Jun Zhao | Yuguang Chen | Weihua Peng

pdfbibabs
Turn the Combination Lock: Learnable Textual Backdoor Attacks via Word Substitution
Fanchao Qi | Yuan Yao | Sophia Xu | Zhiyuan Liu | Maosong Sun

pdfbibabs
Parameter-Efficient Transfer Learning with Diff Pruning
Demi Guo | Alexander Rush | Yoon Kim

pdfbibabs
R2D2: Recursive Transformer based on Differentiable Tree for Interpretable Hierarchical Language Modeling
Xiang Hu | Haitao Mi | Zujie Wen | Yafang Wang | Yi Su | Jing Zheng | Gerard de Melo

pdfbibabs
Risk Minimization for Zero-shot Sequence Labeling
Zechuan Hu | Yong Jiang | Nguyen Bach | Tao Wang | Zhongqiang Huang | Fei Huang | Kewei Tu

pdfbibabs
WARP: Word-level Adversarial ReProgramming
Karen Hambardzumyan | Hrant Khachatrian | Jonathan May

pdfbibabs
Lexicon Learning for Few Shot Sequence Modeling
Ekin Akyurek | Jacob Andreas

pdfbibabs
Personalized Transformer for Explainable Recommendation
Lei Li | Yongfeng Zhang | Li Chen

pdfbibabs
Generating SOAP Notes from Doctor-Patient Conversations Using Modular Summarization Techniques
Kundan Krishna | Sopan Khosla | Jeffrey Bigham | Zachary C. Lipton

pdfbibabs
Tail-to-Tail Non-Autoregressive Sequence Prediction for Chinese Grammatical Error Correction
Piji Li | Shuming Shi

pdfbibabs
Early Detection of Sexual Predators in Chats
Matthias Vogt | Ulf Leser | Alan Akbik

pdfbibabs
Writing by Memorizing: Hierarchical Retrieval-based Medical Report Generation
Xingyi Yang | Muchao Ye | Quanzeng You | Fenglong Ma

pdfbibabs
Concept-Based Label Embedding via Dynamic Routing for Hierarchical Text Classification
Xuepeng Wang | Li Zhao | Bing Liu | Tao Chen | Feng Zhang | Di Wang

pdfbibabs
VisualSparta: An Embarrassingly Simple Approach to Large-scale Text-to-Image Search with Weighted Bag-of-words
Xiaopeng Lu | Tiancheng Zhao | Kyusong Lee

pdfbibabs
Few-Shot Text Ranking with Meta Adapted Synthetic Weak Supervision
Si Sun | Yingzhuo Qian | Zhenghao Liu | Chenyan Xiong | Kaitao Zhang | Jie Bao | Zhiyuan Liu | Paul Bennett

pdfbibabs
Semi-Supervised Text Classification with Balanced Deep Representation Distributions
Changchun Li | Ximing Li | Jihong Ouyang

pdfbibabs
Improving Document Representations by Generating Pseudo Query Embeddings for Dense Retrieval
Hongyin Tang | Xingwu Sun | Beihong Jin | Jingang Wang | Fuzheng Zhang | Wei Wu

pdfbibabs
ConSERT: A Contrastive Framework for Self-Supervised Sentence Representation Transfer
Yuanmeng Yan | Rumei Li | Sirui Wang | Fuzheng Zhang | Wei Wu | Weiran Xu

pdfbibabs
Exploring Dynamic Selection of Branch Expansion Orders for Code Generation
Hui Jiang | Chulun Zhou | Fandong Meng | Biao Zhang | Jie Zhou | Degen Huang | Qingqiang Wu | Jinsong Su

pdfbibabs
COINS: Dynamically Generating COntextualized Inference Rules for Narrative Story Completion
Debjit Paul | Anette Frank

pdfbibabs
Reasoning over Entity-Action-Location Graph for Procedural Text Understanding
Hao Huang | Xiubo Geng | Jian Pei | Guodong Long | Daxin Jiang

pdfbibabs
From Paraphrasing to Semantic Parsing: Unsupervised Semantic Parsing via Synchronous Semantic Decoding
Shan Wu | Bo Chen | Chunlei Xin | Xianpei Han | Le Sun | Weipeng Zhang | Jiansong Chen | Fan Yang | Xunliang Cai

pdfbibabs
Pre-training Universal Language Representation
Yian Li | Hai Zhao

pdfbibabs
Structural Pre-training for Dialogue Comprehension
Zhuosheng Zhang | Hai Zhao

pdfbibabs
AutoTinyBERT: Automatic Hyper-parameter Optimization for Efficient Pre-trained Language Models
Yichun Yin | Cheng Chen | Lifeng Shang | Xin Jiang | Xiao Chen | Qun Liu

pdfbibabs
Data Augmentation with Adversarial Training for Cross-Lingual NLI
Xin Dong | Yaxin Zhu | Zuohui Fu | Dongkuan Xu | Gerard de Melo

pdfbibabs
Bootstrapped Unsupervised Sentence Representation Learning
Yan Zhang | Ruidan He | Zuozhu Liu | Lidong Bing | Haizhou Li

pdfbibabs
Learning Event Graph Knowledge for Abductive Reasoning
Li Du | Xiao Ding | Ting Liu | Bing Qin

pdfbibabs
A Cognitive Regularizer for Language Modeling
Jason Wei | Clara Meister | Ryan Cotterell

pdfbibabs
Lower Perplexity is Not Always Human-Like
Tatsuki Kuribayashi | Yohei Oseki | Takumi Ito | Ryo Yoshida | Masayuki Asahara | Kentaro Inui

pdfbibabs
Word Sense Disambiguation: Towards Interactive Context Exploitation from Both Word and Sense Perspectives
Ming Wang | Yinglin Wang

pdfbibabs
A Knowledge-Guided Framework for Frame Identification
Xuefeng Su | Ru Li | Xiaoli Li | Jeff Z. Pan | Hu Zhang | Qinghua Chai | Xiaoqi Han

pdfbibabs
Obtaining Better Static Word Embeddings Using Contextual Embedding Models
Prakhar Gupta | Martin Jaggi

pdfbibabs
Meta-Learning with Variational Semantic Memory for Word Sense Disambiguation
Yingjun Du | Nithin Holla | Xiantong Zhen | Cees Snoek | Ekaterina Shutova

pdfbibabs
LexFit: Lexical Fine-Tuning of Pretrained Language Models
Ivan Vulić | Edoardo Maria Ponti | Anna Korhonen | Goran Glavaš

pdfbibabs
Text-Free Image-to-Speech Synthesis Using Learned Segmental Units
Wei-Ning Hsu | David Harwath | Tyler Miller | Christopher Song | James Glass

pdfbibabs
CTFN: Hierarchical Learning for Multimodal Sentiment Analysis Using Coupled-Translation Fusion Network
Jiajia Tang | Kang Li | Xuanyu Jin | Andrzej Cichocki | Qibin Zhao | Wanzeng Kong

pdfbibabs
Positional Artefacts Propagate Through Masked Language Model Embeddings
Ziyang Luo | Artur Kulmizev | Xiaoxi Mao

pdfbibabs
Language Model Evaluation Beyond Perplexity
Clara Meister | Ryan Cotterell

pdfbibabs
Learning to Explain: Generating Stable Explanations Fast
Xuelin Situ | Ingrid Zukerman | Cecile Paris | Sameen Maruf | Gholamreza Haffari

pdfbibabs
StereoSet: Measuring stereotypical bias in pretrained language models
Moin Nadeem | Anna Bethke | Siva Reddy

pdfbibabs
Alignment Rationale for Natural Language Inference
Zhongtao Jiang | Yuanzhe Zhang | Zhao Yang | Jun Zhao | Kang Liu

pdfbibabs
Enabling Lightweight Fine-tuning for Pre-trained Language Model Compression based on Matrix Product Operators
Peiyu Liu | Ze-Feng Gao | Wayne Xin Zhao | Zhi-Yuan Xie | Zhong-Yi Lu | Ji-Rong Wen

pdfbibabs
On Sample Based Explanation Methods for NLP: Faithfulness, Efficiency and Semantic Evaluation
Wei Zhang | Ziming Huang | Yada Zhu | Guangnan Ye | Xiaodong Cui | Fan Zhang

pdfbibabs
Syntax-Enhanced Pre-trained Model
Zenan Xu | Daya Guo | Duyu Tang | Qinliang Su | Linjun Shou | Ming Gong | Wanjun Zhong | Xiaojun Quan | Daxin Jiang | Nan Duan

pdfbibabs
Matching Distributions between Model and Data: Cross-domain Knowledge Distillation for Unsupervised Domain Adaptation
Bo Zhang | Xiaoming Zhang | Yun Liu | Lei Cheng | Zhoujun Li

pdfbibabs
Counterfactual Inference for Text Classification Debiasing
Chen Qian | Fuli Feng | Lijie Wen | Chunping Ma | Pengjun Xie

pdfbibabs
HieRec: Hierarchical User Interest Modeling for Personalized News Recommendation
Tao Qi | Fangzhao Wu | Chuhan Wu | Peiru Yang | Yang Yu | Xing Xie | Yongfeng Huang

pdfbibabs
PP-Rec: News Recommendation with Personalized User Interest and Time-aware News Popularity
Tao Qi | Fangzhao Wu | Chuhan Wu | Yongfeng Huang

pdfbibabs
Article Reranking by Memory-Enhanced Key Sentence Matching for Detecting Previously Fact-Checked Claims
Qiang Sheng | Juan Cao | Xueyao Zhang | Xirong Li | Lei Zhong

pdfbibabs
Defense against Synonym Substitution-based Adversarial Attacks via Dirichlet Neighborhood Ensemble
Yi Zhou | Xiaoqing Zheng | Cho-Jui Hsieh | Kai-Wei Chang | Xuanjing Huang

pdfbibabs
Shortformer: Better Language Modeling using Shorter Inputs
Ofir Press | Noah A. Smith | Mike Lewis

pdfbibabs
BanditMTL: Bandit-based Multi-task Learning for Text Classification
Yuren Mao | Zekai Wang | Weiwei Liu | Xuemin Lin | Wenbin Hu

pdfbibabs
Unified Interpretation of Softmax Cross-Entropy and Negative Sampling: With Case Study for Knowledge Graph Embedding
Hidetaka Kamigaito | Katsuhiko Hayashi

pdfbibabs
De-Confounded Variational Encoder-Decoder for Logical Table-to-Text Generation
Wenqing Chen | Jidong Tian | Yitian Li | Hao He | Yaohui Jin

pdfbibabs
Rethinking Stealthiness of Backdoor Attack against NLP Models
Wenkai Yang | Yankai Lin | Peng Li | Jie Zhou | Xu Sun

pdfbibabs
Crowdsourcing Learning as Domain Adaptation: A Case Study on Named Entity Recognition
Xin Zhang | Guangwei Xu | Yueheng Sun | Meishan Zhang | Pengjun Xie

pdfbibabs
Exploring Distantly-Labeled Rationales in Neural Network Models
Quzhe Huang | Shengqi Zhu | Yansong Feng | Dongyan Zhao

pdfbibabs
Learning to Perturb Word Embeddings for Out-of-distribution QA
Seanie Lee | Minki Kang | Juho Lee | Sung Ju Hwang

pdfbibabs
Maria: A Visual Experience Powered Conversational Agent
Zujie Liang | Huang Hu | Can Xu | Chongyang Tao | Xiubo Geng | Yining Chen | Fan Liang | Daxin Jiang

pdfbibabs
A Human-machine Collaborative Framework for Evaluating Malevolence in Dialogues
Yangjun Zhang | Pengjie Ren | Maarten de Rijke

pdfbibabs
Generating Relevant and Coherent Dialogue Responses using Self-Separated Conditional Variational AutoEncoders
Bin Sun | Shaoxiong Feng | Yiwei Li | Jiamou Liu | Kan Li

pdfbibabs
Learning to Ask Conversational Questions by Optimizing Levenshtein Distance
Zhongkun Liu | Pengjie Ren | Zhumin Chen | Zhaochun Ren | Maarten de Rijke | Ming Zhou

pdfbibabs
DVD: A Diagnostic Dataset for Multi-step Reasoning in Video Grounded Dialogue
Hung Le | Chinnadhurai Sankar | Seungwhan Moon | Ahmad Beirami | Alborz Geramifard | Satwik Kottur

pdfbibabs
MMGCN: Multimodal Fusion via Deep Graph Convolution Network for Emotion Recognition in Conversation
Jingwen Hu | Yuchen Liu | Jinming Zhao | Qin Jin

pdfbibabs
DynaEval: Unifying Turn and Dialogue Level Evaluation
Chen Zhang | Yiming Chen | Luis Fernando D'Haro | Yan Zhang | Thomas Friedrichs | Grandee Lee | Haizhou Li

pdfbibabs
CoSQA: 20,000+ Web Queries for Code Search and Question Answering
Junjie Huang | Duyu Tang | Linjun Shou | Ming Gong | Ke Xu | Daxin Jiang | Ming Zhou | Nan Duan

pdfbibabs
Rewriter-Evaluator Architecture for Neural Machine Translation
Yangming Li | Kaisheng Yao

pdfbibabs
Modeling Bilingual Conversational Characteristics for Neural Chat Translation
Yunlong Liang | Fandong Meng | Yufeng Chen | Jinan Xu | Jie Zhou

pdfbibabs
Importance-based Neuron Allocation for Multilingual Neural Machine Translation
Wanying Xie | Yang Feng | Shuhao Gu | Dong Yu

pdfbibabs
Transfer Learning for Sequence Generation: from Single-source to Multi-source
Xuancheng Huang | Jingfang Xu | Maosong Sun | Yang Liu

pdfbibabs
A Closer Look at Few-Shot Crosslingual Transfer: The Choice of Shots Matters
Mengjie Zhao | Yi Zhu | Ehsan Shareghi | Ivan Vulić | Roi Reichart | Anna Korhonen | Hinrich Schütze

pdfbibabs
Coreference Reasoning in Machine Reading Comprehension
Mingzhu Wu | Nafise Sadat Moosavi | Dan Roth | Iryna Gurevych

pdfbibabs
Adapting Unsupervised Syntactic Parsing Methodology for Discourse Dependency Parsing
Liwen Zhang | Ge Wang | Wenjuan Han | Kewei Tu

pdfbibabs
A Conditional Splitting Framework for Efficient Constituency Parsing
Thanh-Tung Nguyen | Xuan-Phi Nguyen | Shafiq Joty | Xiaoli Li

pdfbibabs
A Unified Generative Framework for Various NER Subtasks
Hang Yan | Tao Gui | Junqi Dai | Qipeng Guo | Zheng Zhang | Xipeng Qiu

pdfbibabs
An In-depth Study on Internal Structure of Chinese Words
Chen Gong | Saihao Huang | Houquan Zhou | Zhenghua Li | Min Zhang | Zhefeng Wang | Baoxing Huai | Nicholas Jing Yuan

pdfbibabs
MulDA: A Multilingual Data Augmentation Framework for Low-Resource Cross-Lingual NER
Linlin Liu | Bosheng Ding | Lidong Bing | Shafiq Joty | Luo Si | Chunyan Miao

pdfbibabs
Lexicon Enhanced Chinese Sequence Labeling Using BERT Adapter
Wei Liu | Xiyan Fu | Yue Zhang | Wenming Xiao

pdfbibabs
Math Word Problem Solving with Explicit Numerical Values
Qinzhuo Wu | Qi Zhang | Zhongyu Wei | Xuanjing Huang

pdfbibabs
Neural-Symbolic Solver for Math Word Problems with Auxiliary Tasks
Jinghui Qin | Xiaodan Liang | Yining Hong | Jianheng Tang | Liang Lin

pdfbibabs
SMedBERT: A Knowledge-Enhanced Pre-trained Language Model with Structured Semantics for Medical Text Mining
Taolin Zhang | Zerui Cai | Chengyu Wang | Minghui Qiu | Bite Yang | Xiaofeng He

pdfbibabs
What is Your Article Based On? Inferring Fine-grained Provenance
Yi Zhang | Zachary Ives | Dan Roth

pdfbibabs
Cross-modal Memory Networks for Radiology Report Generation
Zhihong Chen | Yaling Shen | Yan Song | Xiang Wan

pdfbibabs
Controversy and Conformity: from Generalized to Personalized Aggressiveness Detection
Kamil Kanclerz | Alicja Figas | Marcin Gruza | Tomasz Kajdanowicz | Jan Kocon | Daria Puchalska | Przemyslaw Kazienko

pdfbibabs
Multi-perspective Coherent Reasoning for Helpfulness Prediction of Multimodal Reviews
Junhao Liu | Zhen Hai | Min Yang | Lidong Bing

pdfbibabs
Instantaneous Grammatical Error Correction with Shallow Aggressive Decoding
Xin Sun | Tao Ge | Furu Wei | Houfeng Wang

pdfbibabs
Automatic ICD Coding via Interactive Shared Representation Networks with Self-distillation Mechanism
Tong Zhou | Pengfei Cao | Yubo Chen | Kang Liu | Jun Zhao | Kun Niu | Weifeng Chong | Shengping Liu

pdfbibabs
PHMOSpell: Phonological and Morphological Knowledge Guided Chinese Spelling Check
Li Huang | Junjie Li | Weiwei Jiang | Zhiyu Zhang | Minchuan Chen | Shaojun Wang | Jing Xiao

pdfbibabs
Guiding the Growth: Difficulty-Controllable Question Generation through Step-by-Step Rewriting
Yi Cheng | Siyao Li | Bang Liu | Ruihui Zhao | Sujian Li | Chenghua Lin | Yefeng Zheng

pdfbibabs
Improving Encoder by Auxiliary Supervision Tasks for Table-to-Text Generation
Liang Li | Can Ma | Yinliang Yue | Dayong Hu

pdfbibabs
POS-Constrained Parallel Decoding for Non-autoregressive Generation
Kexin Yang | Wenqiang Lei | Dayiheng Liu | Weizhen Qi | Jiancheng Lv

pdfbibabs
Bridging Subword Gaps in Pretrain-Finetune Paradigm for Natural Language Generation
Xin Liu | Baosong Yang | Dayiheng Liu | Haibo Zhang | Weihua Luo | Min Zhang | Haiying Zhang | Jinsong Su

pdfbibabs
TGEA: An Error-Annotated Dataset and Benchmark Tasks for TextGeneration from Pretrained Language Models
Jie He | Bo Peng | Yi Liao | Qun Liu | Deyi Xiong

pdfbibabs
Long-Span Summarization via Local Attention and Content Selection
Potsawee Manakul | Mark Gales

pdfbibabs
RepSum: Unsupervised Dialogue Summarization based on Replacement Strategy
Xiyan Fu | Yating Zhang | Tianyi Wang | Xiaozhong Liu | Changlong Sun | Zhenglu Yang

pdfbibabs
BASS: Boosting Abstractive Summarization with Unified Semantic Graph
Wenhao Wu | Wei Li | Xinyan Xiao | Jiachen Liu | Ziqiang Cao | Sujian Li | Hua Wu | Haifeng Wang

pdfbibabs
Capturing Relations between Scientific Papers: An Abstractive Model for Related Work Section Generation
Xiuying Chen | Hind Alamro | Mingzhe Li | Shen Gao | Xiangliang Zhang | Dongyan Zhao | Rui Yan

pdfbibabs
Focus Attention: Promoting Faithfulness and Diversity in Summarization
Rahul Aralikatte | Shashi Narayan | Joshua Maynez | Sascha Rothe | Ryan McDonald

pdfbibabs
Generating Query Focused Summaries from Query-Free Resources
Yumo Xu | Mirella Lapata

pdfbibabs
Robustifying Multi-hop QA through Pseudo-Evidentiality Training
Kyungjae Lee | Seung-won Hwang | Sang-eun Han | Dohyeon Lee

pdfbibabs
xMoCo: Cross Momentum Contrastive Learning for Open-Domain Question Answering
Nan Yang | Furu Wei | Binxing Jiao | Daxing Jiang | Linjun Yang

pdfbibabs
Learn to Resolve Conversational Dependency: A Consistency Training Framework for Conversational Question Answering
Gangwoo Kim | Hyunjae Kim | Jungsoo Park | Jaewoo Kang

pdfbibabs
PhotoChat: A Human-Human Dialogue Dataset With Photo Sharing Behavior For Joint Image-Text Modeling
Xiaoxue Zang | Lijuan Liu | Maria Wang | Yang Song | Hao Zhang | Jindong Chen

pdfbibabs
Good for Misconceived Reasons: An Empirical Revisiting on the Need for Visual Context in Multimodal Machine Translation
Zhiyong Wu | Lingpeng Kong | Wei Bi | Xiang Li | Ben Kao

pdfbibabs
Attend What You Need: Motion-Appearance Synergistic Networks for Video Question Answering
Ahjeong Seo | Gi-Cheon Kang | Joonhan Park | Byoung-Tak Zhang

pdfbibabs
BERTifying the Hidden Markov Model for Multi-Source Weakly Supervised Named Entity Recognition
Yinghao Li | Pranav Shetty | Lucas Liu | Chao Zhang | Le Song

pdfbibabs
CIL: Contrastive Instance Learning Framework for Distantly Supervised Relation Extraction
Tao Chen | Haizhou Shi | Siliang Tang | Zhigang Chen | Fei Wu | Yueting Zhuang

pdfbibabs
SENT: Sentence-level Distant Relation Extraction via Negative Training
Ruotian Ma | Tao Gui | Linyang Li | Qi Zhang | Xuanjing Huang | Yaqian Zhou

pdfbibabs
An End-to-End Progressive Multi-Task Learning Framework for Medical Named Entity Recognition and Normalization
Baohang Zhou | Xiangrui Cai | Ying Zhang | Xiaojie Yuan

pdfbibabs
PRGC: Potential Relation and Global Correspondence Based Joint Relational Triple Extraction
Hengyi Zheng | Rui Wen | Xi Chen | Yifan Yang | Yunyan Zhang | Ziheng Zhang | Ningyu Zhang | Bin Qin | Xu Ming | Yefeng Zheng

pdfbibabs
Learning from Miscellaneous Other-Class Words for Few-shot Named Entity Recognition
Meihan Tong | Shuai Wang | Bin Xu | Yixin Cao | Minghui Liu | Lei Hou | Juanzi Li

pdfbibabs
Joint Biomedical Entity and Relation Extraction with Knowledge-Enhanced Collective Inference
Tuan Lai | Heng Ji | ChengXiang Zhai | Quan Hung Tran

pdfbibabs
Fine-grained Information Extraction from Biomedical Literature based on Knowledge-enriched Abstract Meaning Representation
Zixuan Zhang | Nikolaus Parulian | Heng Ji | Ahmed Elsayed | Skatje Myers | Martha Palmer

pdfbibabs
Unleash GPT-2 Power for Event Detection
Amir Pouran Ben Veyseh | Viet Lai | Franck Dernoncourt | Thien Huu Nguyen

pdfbibabs
CLEVE: Contrastive Pre-training for Event Extraction
Ziqi Wang | Xiaozhi Wang | Xu Han | Yankai Lin | Lei Hou | Zhiyuan Liu | Peng Li | Juanzi Li | Jie Zhou

pdfbibabs
Document-level Event Extraction via Parallel Prediction Networks
Hang Yang | Dianbo Sui | Yubo Chen | Kang Liu | Jun Zhao | Taifeng Wang

pdfbibabs
StructuralLM: Structural Pre-training for Form Understanding
Chenliang Li | Bin Bi | Ming Yan | Wei Wang | Songfang Huang | Fei Huang | Luo Si

pdfbibabs
Dual Graph Convolutional Networks for Aspect-based Sentiment Analysis
Ruifan Li | Hao Chen | Fangxiang Feng | Zhanyu Ma | Xiaojie Wang | Eduard Hovy

pdfbibabs
Multi-Label Few-Shot Learning for Aspect Category Detection
Mengting Hu | Shiwan Zhao | Honglei Guo | Chao Xue | Hang Gao | Tiegang Gao | Renhong Cheng | Zhong Su

pdfbibabs
Argument Pair Extraction via Attention-guided Multi-Layer Multi-Cross Encoding
Liying Cheng | Tianyu Wu | Lidong Bing | Luo Si

pdfbibabs
A Neural Transition-based Model for Argumentation Mining
Jianzhu Bao | Chuang Fan | Jipeng Wu | Yixue Dang | Jiachen Du | Ruifeng Xu

pdfbibabs
Keep It Simple: Unsupervised Simplification of Multi-Paragraph Text
Philippe Laban | Tobias Schnabel | Paul Bennett | Marti A. Hearst

pdfbibabs
Long Text Generation by Modeling Sentence-Level and Discourse-Level Coherence
Jian Guan | Xiaoxi Mao | Changjie Fan | Zitao Liu | Wenbiao Ding | Minlie Huang

pdfbibabs
OpenMEVA: A Benchmark for Evaluating Open-ended Story Generation Metrics
Jian Guan | Zhexin Zhang | Zhuoer Feng | Zitao Liu | Wenbiao Ding | Xiaoxi Mao | Changjie Fan | Minlie Huang

pdfbibabs
DYPLOC: Dynamic Planning of Content Using Mixed Language Models for Text Generation
Xinyu Hua | Ashwin Sreevatsa | Lu Wang

pdfbibabs
Controllable Open-ended Question Generation with A New Question Type Ontology
Shuyang Cao | Lu Wang

pdfbibabs
BERTGen: Multi-task Generation through BERT
Faidon Mitzalis | Ozan Caglayan | Pranava Madhyastha | Lucia Specia

pdfbibabs
Selective Knowledge Distillation for Neural Machine Translation
Fusheng Wang | Jianhao Yan | Fandong Meng | Jie Zhou

pdfbibabs
Measuring and Increasing Context Usage in Context-Aware Machine Translation
Patrick Fernandes | Kayo Yin | Graham Neubig | André F. T. Martins

pdfbibabs
Beyond Offline Mapping: Learning Cross-lingual Word Embeddings through Context Anchoring
Aitor Ormazabal | Mikel Artetxe | Aitor Soroa | Gorka Labaka | Eneko Agirre

pdfbibabs
CCMatrix: Mining Billions of High-Quality Parallel Sentences on the Web
Holger Schwenk | Guillaume Wenzek | Sergey Edunov | Edouard Grave | Armand Joulin | Angela Fan

pdfbibabs
Length-Adaptive Transformer: Train Once with Length Drop, Use Anytime with Search
Gyuwan Kim | Kyunghyun Cho

pdfbibabs
GhostBERT: Generate More Features with Cheap Operations for BERT
Zhiqi Huang | Lu Hou | Lifeng Shang | Xin Jiang | Xiao Chen | Qun Liu

pdfbibabs
Super Tickets in Pre-Trained Language Models: From Model Compression to Improving Generalization
Chen Liang | Simiao Zuo | Minshuo Chen | Haoming Jiang | Xiaodong Liu | Pengcheng He | Tuo Zhao | Weizhu Chen

pdfbibabs
A Novel Estimator of Mutual Information for Learning to Disentangle Textual Representations
Pierre Colombo | Pablo Piantanida | Chloé Clavel

pdfbibabs
Determinantal Beam Search
Clara Meister | Martina Forster | Ryan Cotterell

pdfbibabs
Multi-hop Graph Convolutional Network with High-order Chebyshev Approximation for Text Reasoning
Shuoran Jiang | Qingcai Chen | Xin Liu | Baotian Hu | Lisai Zhang

pdfbibabs
Accelerating Text Communication via Abbreviated Sentence Input
Jiban Adhikary | Jamie Berger | Keith Vertanen

pdfbibabs
Regression Bugs Are In Your Model! Measuring, Reducing and Analyzing Regressions In NLP Model Updates
Yuqing Xie | Yi-An Lai | Yuanjun Xiong | Yi Zhang | Stefano Soatto

pdfbibabs
Detecting Propaganda Techniques in Memes
Dimitar Dimitrov | Bishr Bin Ali | Shaden Shaar | Firoj Alam | Fabrizio Silvestri | Hamed Firooz | Preslav Nakov | Giovanni Da San Martino

pdfbibabs
On the Efficacy of Adversarial Data Collection for Question Answering: Results from a Large-Scale Randomized Study
Divyansh Kaushik | Douwe Kiela | Zachary C. Lipton | Wen-tau Yih

pdfbibabs
Learning Dense Representations of Phrases at Scale
Jinhyuk Lee | Mujeen Sung | Jaewoo Kang | Danqi Chen

pdfbibabs
End-to-End Training of Neural Retrievers for Open-Domain Question Answering
Devendra Sachan | Mostofa Patwary | Mohammad Shoeybi | Neel Kant | Wei Ping | William L. Hamilton | Bryan Catanzaro

pdfbibabs
Question Answering Over Temporal Knowledge Graphs
Apoorv Saxena | Soumen Chakrabarti | Partha Talukdar

pdfbibabs
Language Model Augmented Relevance Score
Ruibo Liu | Jason Wei | Soroush Vosoughi

pdfbibabs
DExperts: Decoding-Time Controlled Text Generation with Experts and Anti-Experts
Alisa Liu | Maarten Sap | Ximing Lu | Swabha Swayamdipta | Chandra Bhagavatula | Noah A. Smith | Yejin Choi

pdfbibabs
Polyjuice: Generating Counterfactuals for Explaining, Evaluating, and Improving Models
Tongshuang Wu | Marco Tulio Ribeiro | Jeffrey Heer | Daniel Weld

pdfbibabs
Metaphor Generation with Conceptual Mappings
Kevin Stowe | Tuhin Chakrabarty | Nanyun Peng | Smaranda Muresan | Iryna Gurevych

pdfbibabs
Learning Latent Structures for Cross Action Phrase Relations in Wet Lab Protocols
Chaitanya Kulkarni | Jany Chan | Eric Fosler-Lussier | Raghu Machiraju

pdfbibabs
Multimodal Multi-Speaker Merger & Acquisition Financial Modeling: A New Task, Dataset, and Neural Baselines
Ramit Sawhney | Mihir Goyal | Prakhar Goel | Puneet Mathur | Rajiv Ratn Shah

pdfbibabs
Mid-Air Hand Gestures for Post-Editing of Machine Translation
Rashad Albo Jamara | Nico Herbig | Antonio Krüger | Josef van Genabith

pdfbibabs
Inter-GPS: Interpretable Geometry Problem Solving with Formal Language and Symbolic Reasoning
Pan Lu | Ran Gong | Shibiao Jiang | Liang Qiu | Siyuan Huang | Xiaodan Liang | Song-Chun Zhu

pdfbibabs
Joint Verification and Reranking for Open Fact Checking Over Tables
Michael Sejr Schlichtkrull | Vladimir Karpukhin | Barlas Oguz | Mike Lewis | Wen-tau Yih | Sebastian Riedel

pdfbibabs
Evaluation of Thematic Coherence in Microblogs
Iman Munire Bilal | Bo Wang | Maria Liakata | Rob Procter | Adam Tsakalidis

pdfbibabs
Neural semi-Markov CRF for Monolingual Word Alignment
Wuwei Lan | Chao Jiang | Wei Xu

pdfbibabs
Privacy at Scale: Introducing the PrivaSeer Corpus of Web Privacy Policies
Mukund Srinath | Shomir Wilson | C Lee Giles

pdfbibabs
The statistical advantage of automatic NLG metrics at the system level
Johnny Wei | Robin Jia

pdfbibabs
Are Missing Links Predictable? An Inferential Benchmark for Knowledge Graph Completion
Yixin Cao | Xiang Ji | Xin Lv | Juanzi Li | Yonggang Wen | Hanwang Zhang

pdfbibabs
ConvoSumm: Conversation Summarization Benchmark and Improved Abstractive Summarization with Argument Mining
Alexander Fabbri | Faiaz Rahman | Imad Rizvi | Borui Wang | Haoran Li | Yashar Mehdad | Dragomir Radev

pdfbibabs
Improving Factual Consistency of Abstractive Summarization via Question Answering
Feng Nan | Cicero Nogueira dos Santos | Henghui Zhu | Patrick Ng | Kathleen McKeown | Ramesh Nallapati | Dejiao Zhang | Zhiguo Wang | Andrew O. Arnold | Bing Xiang

pdfbibabs
EmailSum: Abstractive Email Thread Summarization
Shiyue Zhang | Asli Celikyilmaz | Jianfeng Gao | Mohit Bansal

pdfbibabs
Cross-Lingual Abstractive Summarization with Limited Parallel Resources
Yu Bai | Yang Gao | Heyan Huang

pdfbibabs
Dissecting Generation Modes for Abstractive Summarization Models via Ablation and Attribution
Jiacheng Xu | Greg Durrett

pdfbibabs
Learning Prototypical Functions for Physical Artifacts
Tianyu Jiang | Ellen Riloff

pdfbibabs
Verb Knowledge Injection for Multilingual Event Processing
Olga Majewska | Ivan Vulić | Goran Glavaš | Edoardo Maria Ponti | Anna Korhonen

pdfbibabs
Dynamic Contextualized Word Embeddings
Valentin Hofmann | Janet Pierrehumbert | Hinrich Schütze

pdfbibabs
Lexical Semantic Change Discovery
Sinan Kurtyigit | Maike Park | Dominik Schlechtweg | Jonas Kuhn | Sabine Schulte im Walde

pdfbibabs
The R-U-A-Robot Dataset: Helping Avoid Chatbot Deception by Detecting User Questions About Human or Non-Human Identity
David Gros | Yu Li | Zhou Yu

pdfbibabs
Using Meta-Knowledge Mined from Identifiers to Improve Intent Recognition in Conversational Systems
Claudio Pinhanez | Paulo Cavalin | Victor Henrique Alves Ribeiro | Ana Appel | Heloisa Candello | Julio Nogima | Mauro Pichiliani | Melina Guerra | Maira de Bayser | Gabriel Malfatti | Henrique Ferreira

pdfbibabs
Space Efficient Context Encoding for Non-Task-Oriented Dialogue Generation with Graph Attention Transformer
Fabian Galetzka | Jewgeni Rose | David Schlangen | Jens Lehmann

pdfbibabs
DialogueCRN: Contextual Reasoning Networks for Emotion Recognition in Conversations
Dou Hu | Lingwei Wei | Xiaoyong Huai

pdfbibabs
Cross-replication Reliability - An Empirical Approach to Interpreting Inter-rater Reliability
Ka Wong | Praveen Paritosh | Lora Aroyo

pdfbibabs
TIMEDIAL: Temporal Commonsense Reasoning in Dialog
Lianhui Qin | Aditya Gupta | Shyam Upadhyay | Luheng He | Yejin Choi | Manaal Faruqui

pdfbibabs
RAW-C: Relatedness of Ambiguous Words in Context (A New Lexical Resource for English)
Sean Trott | Benjamin Bergen

pdfbibabs
ARBERT & MARBERT: Deep Bidirectional Transformers for Arabic
Muhammad Abdul-Mageed | AbdelRahim Elmadany | El Moatez Billah Nagoudi

pdfbibabs
Improving Paraphrase Detection with the Adversarial Paraphrasing Task
Animesh Nighojkar | John Licato

pdfbibabs
ADEPT: An Adjective-Dependent Plausibility Task
Ali Emami | Ian Porada | Alexandra Olteanu | Kaheer Suleman | Adam Trischler | Jackie Chi Kit Cheung

pdfbibabs
ReadOnce Transformers: Reusable Representations of Text for Transformers
Shih-Ting Lin | Ashish Sabharwal | Tushar Khot

pdfbibabs
Conditional Generation of Temporally-ordered Event Sequences
Shih-Ting Lin | Nathanael Chambers | Greg Durrett

pdfbibabs
Hate Speech Detection Based on Sentiment Knowledge Sharing
Xianbing Zhou | Yang Yong | Xiaochao Fan | Ge Ren | Yunfeng Song | Yufeng Diao | Liang Yang | Hongfei Lin

pdfbibabs
Transition-based Bubble Parsing: Improvements on Coordination Structure Prediction
Tianze Shi | Lillian Lee

pdfbibabs
SpanNER: Named Entity Re-/Recognition as Span Prediction
Jinlan Fu | Xuanjing Huang | Pengfei Liu

pdfbibabs
StructFormer: Joint Unsupervised Induction of Dependency and Constituency Structure from Masked Language Modeling
Yikang Shen | Yi Tay | Che Zheng | Dara Bahri | Donald Metzler | Aaron Courville

pdfbibabs
Language Embeddings for Typology and Cross-lingual Transfer Learning
Dian Yu | Taiqi He | Kenji Sagae

pdfbibabs
Can Sequence-to-Sequence Models Crack Substitution Ciphers?
Nada Aldarrab | Jonathan May

pdfbibabs
Beyond Noise: Mitigating the Impact of Fine-grained Semantic Divergences on Neural Machine Translation
Eleftheria Briakou | Marine Carpuat

pdfbibabs
Discriminative Reranking for Neural Machine Translation
Ann Lee | Michael Auli | Marc'Aurelio Ranzato

pdfbibabs
Mind Your Outliers! Investigating the Negative Impact of Outliers on Active Learning for Visual Question Answering
Siddharth Karamcheti | Ranjay Krishna | Li Fei-Fei | Christopher Manning

pdfbibabs
All That's 'Human' Is Not Gold: Evaluating Human Evaluation of Generated Text
Elizabeth Clark | Tal August | Sofia Serrano | Nikita Haduong | Suchin Gururangan | Noah A. Smith

pdfbibabs
Scientific Credibility of Machine Translation Research: A Meta-Evaluation of 769 Papers
Benjamin Marie | Atsushi Fujita | Raphael Rubino

pdfbibabs
Neural Machine Translation with Monolingual Translation Memory
Deng Cai | Yan Wang | Huayang Li | Wai Lam | Lemao Liu

pdfbibabs
Intrinsic Dimensionality Explains the Effectiveness of Language Model Fine-Tuning
Armen Aghajanyan | Sonal Gupta | Luke Zettlemoyer

pdfbibabs
UnNatural Language Inference
Koustuv Sinha | Prasanna Parthasarathi | Joelle Pineau | Adina Williams

pdfbibabs

Including Signed Languages in Natural Language Processing

Kayo Yin | Amit Moryossef | Julie Hochgesang | Yoav Goldberg | Malihe Alikhani

pdfbibabs

Vocabulary Learning via Optimal Transport for Neural Machine Translation

Jingjing Xu | Hao Zhou | Chun Gan | Zaixiang Zheng | Lei Li