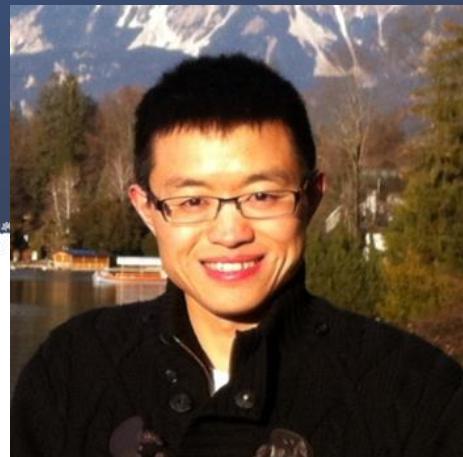


NLPCC 2019 OPENING Remarks

Oct-13-2019



Min-Yen Kan
National University of
Singapore



Jie Tang
Tsinghua University

NLPCC 2019 Keynote Speakers



Keh-Yih Su
*On Integrating
Domain Knowledge
into DNN*



Mark Liberman
*Clinical Applications
of Human Language
Technology*



Dawei Song
*A Quantum Cognitive
Perspective for
Information Access
and Retrieval*



Fei Xia
University of Washington

Area Chairs

Conversational Bot/QA/IR/Dialogue:

Yunhua HU abitai.com
Wenjie LI HK Poly U.

Fundamentals of NLP:

Yangfeng JI Univ. Virginia
Meishan ZHANG Heilongjiang University

Knowledge Graph:

Yangqiu SONG HKUST
Haofen WANG Gowild.cn

Machine Learning for NLP:

Caiming XIONG Salesforce Research
Xu SUN Peking University

Machine Translation:

Derek WONG University of Macau
Jiajun ZHANG CAS

NLP Applications, Privacy and Ethics:

Ping LUO CAS
Xiang REN USC

Text Mining:

Michalis VAZIRGIANNIS Ecole Polytechnique
Jun XU Renmin University
Furu Wei Mircosoft Research

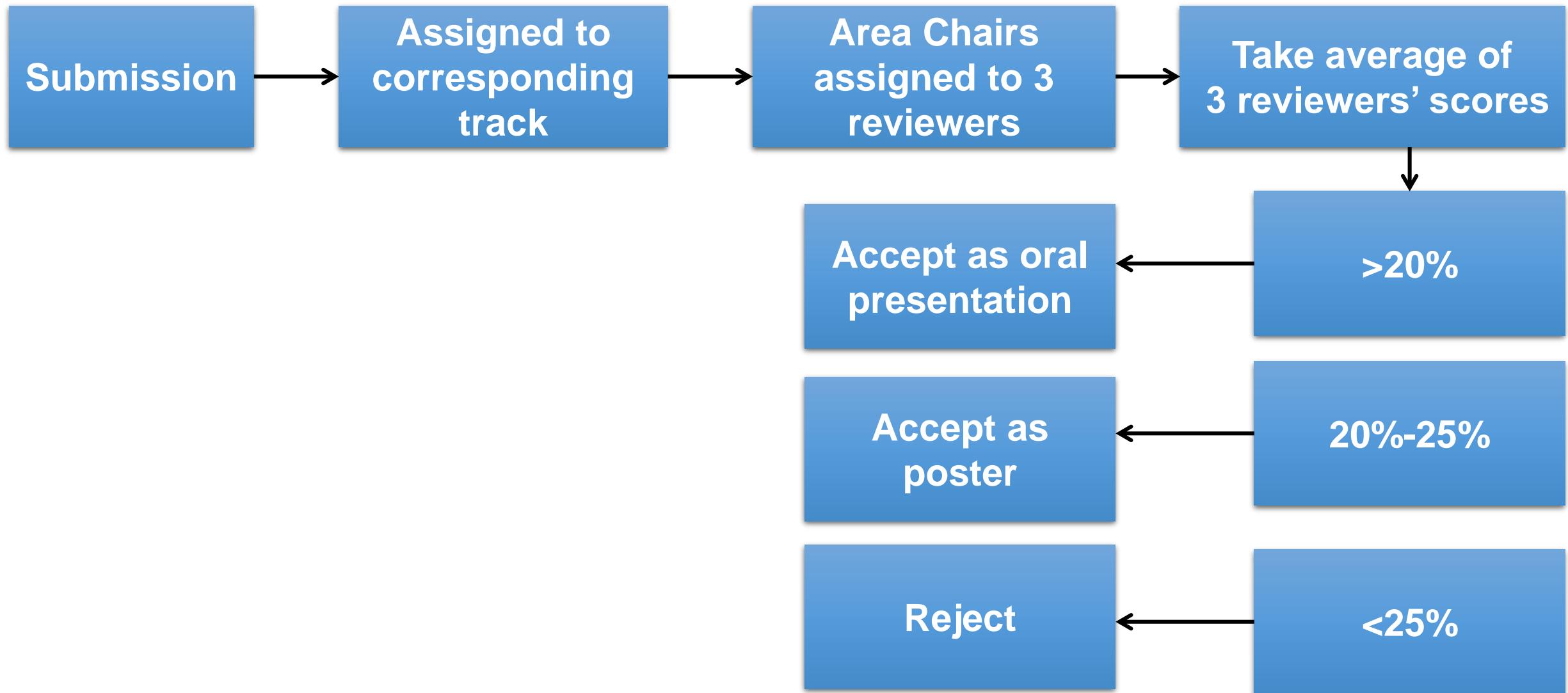
Social Networks:

Wei GAO Victoria University of Wellington
Chuan SHI Beijing University of Posts and
Telecommunications

Submission Overview

- English Submissions: **343**
- Acceptance rate
 - Oral presentations: **77 = 22.4%**
 - Poster presentations: **15 = 4.4%**
- Chinese Submissions: **108**
- Acceptance rate
 - Oral presentations: **15 = 13.8%**
 - Poster presentations: **22 = 20.4%**

Review Process





NLPCC by the numbers

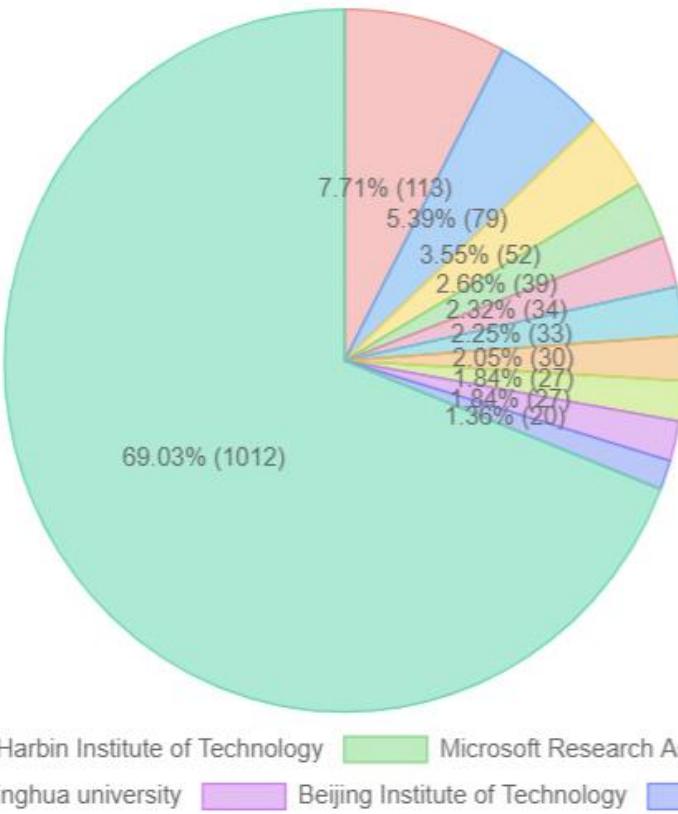
451 valid
submissions
(**46%** increase over 2018)

Approximately

75% were **English** language submissions
25% were **Chinese** language submissions

Conference Analytics

Submission Rank Organization



The pie chart shows the percentage and number of papers submitted from each organization. This tells us which organization has more submissions than other organizations. We have included others to account for all organizations involved.

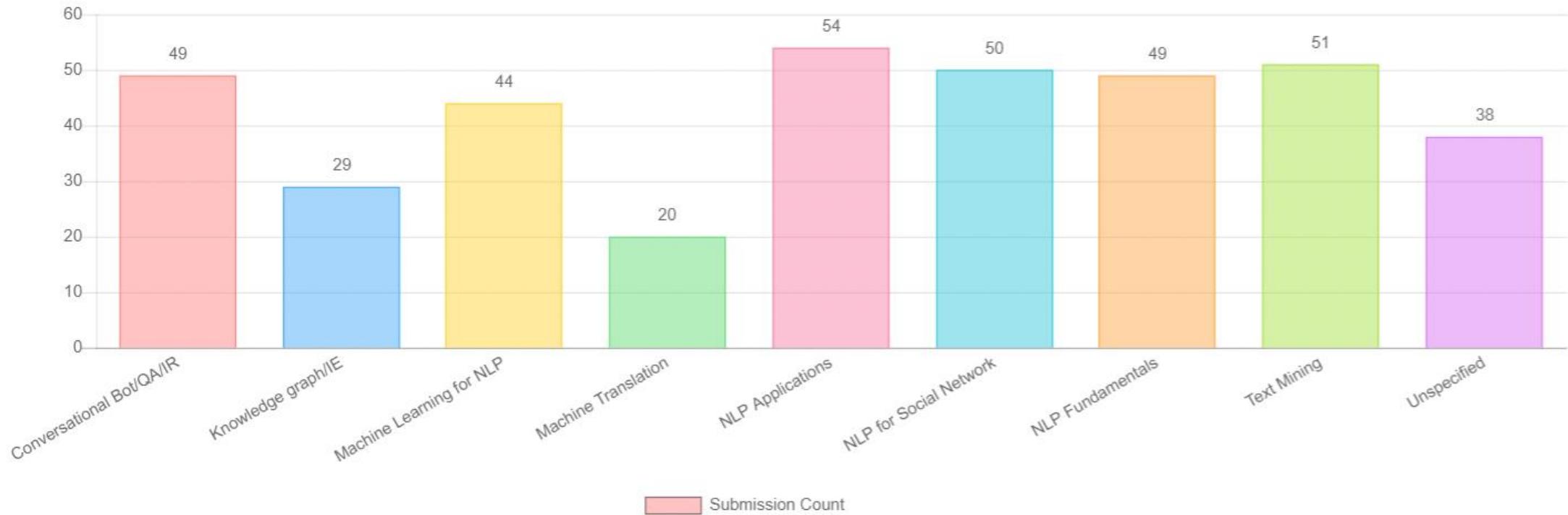


NLPCC Program

- In addition to the main proceedings, we have
- Student workshop: 4 papers accepted
- Evaluation workshop: 14 papers accepted
- Explainable AI (XAI) workshop: 9 papers accepted
- ADL/Tutorial: 6 invited tutorials

Conference Analytics

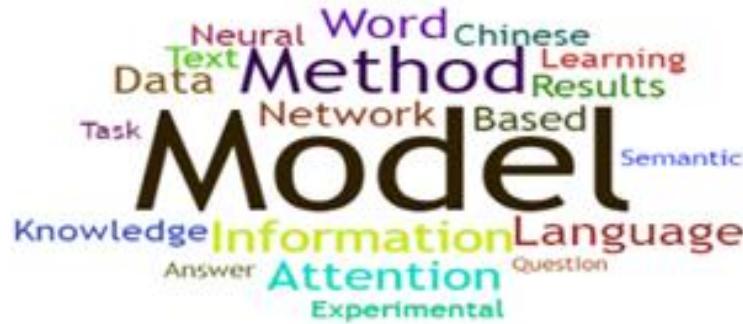
Submission Rank Track



This bar chart shows the number of papers submitted in each track.
This tells us which track is more popular than other tracks.

Conference Analytics

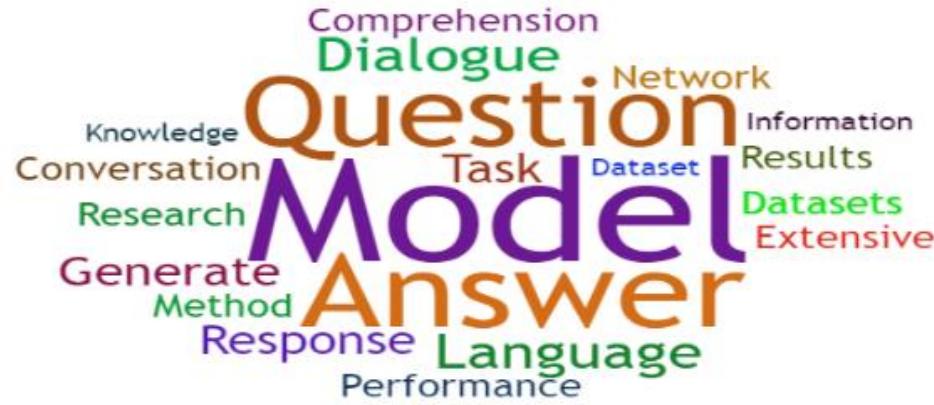
Word Cloud for All Submissions



This word cloud shows a list of key words found under the abstract section for all the submitted papers.

Conference Analytics

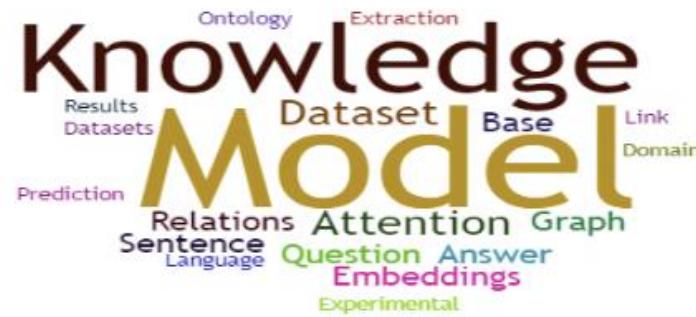
Word Cloud for All Conversational Bot/QA/IR Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in Conversational Bot/QA/IR Track.

Conference Analytics

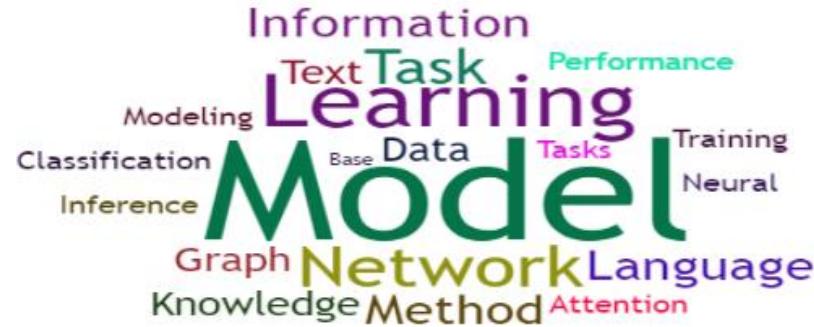
Word Cloud for All Knowledge Graph/IE Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in Knowledge Graph/IE Track.

Conference Analytics

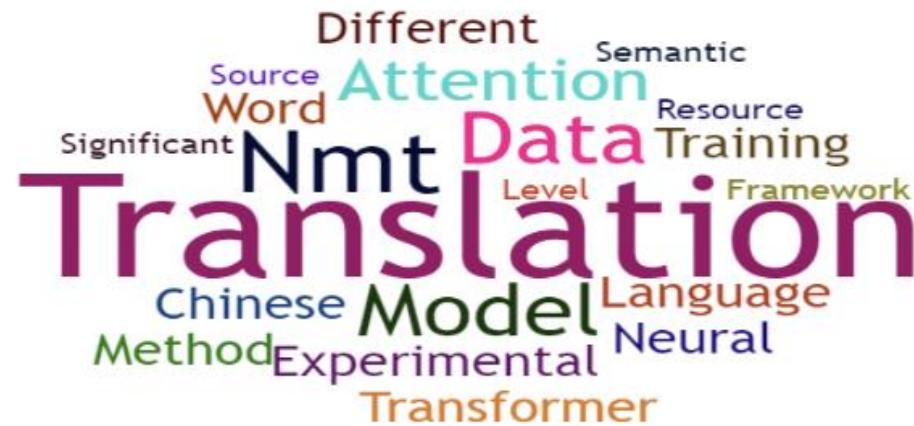
Word Cloud for All Machine Learning for NLP Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in Machine Learning for NLP.

Conference Analytics

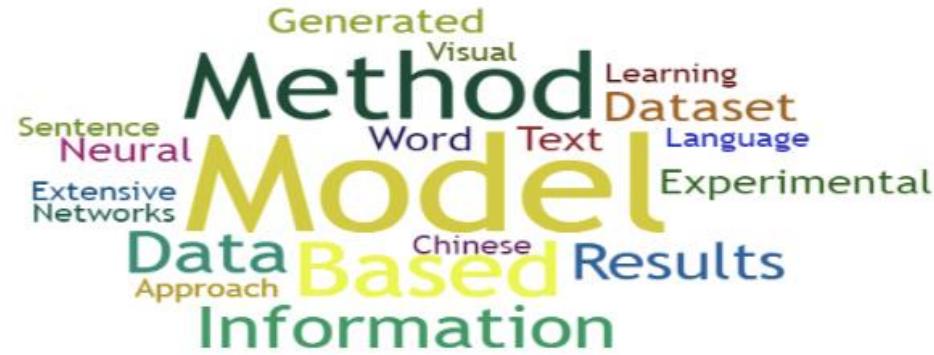
Word Cloud for All Machine Translation Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in Machine Translation Track.

Conference Analytics

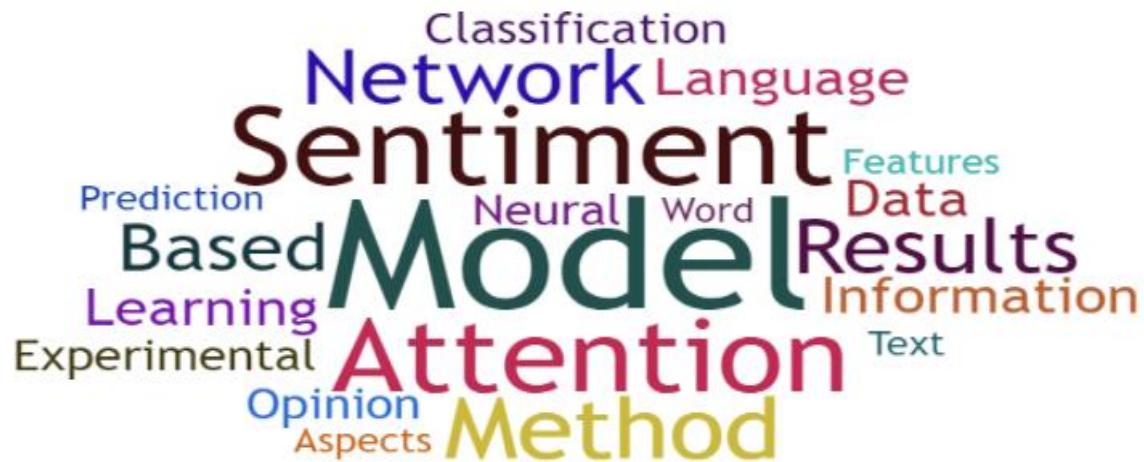
Word Cloud for All NLP Applications Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in NLP Applications Track.

Conference Analytics

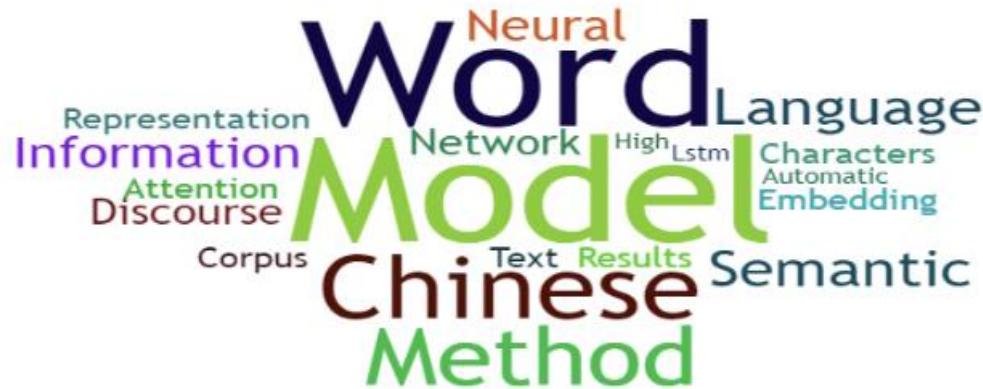
Word Cloud for All NLP for Social Network Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in NLP for Social Network Track.

Conference Analytics

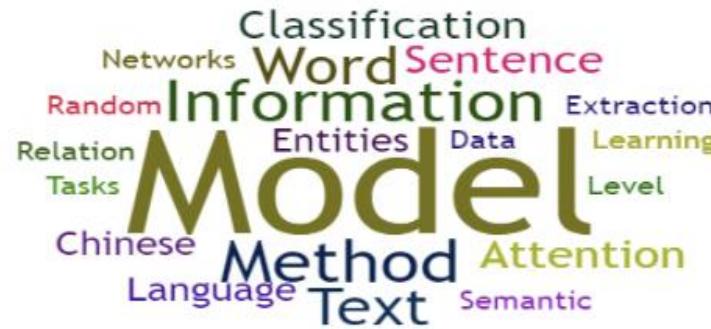
Word Cloud for All NLP Fundamentals Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in NLP Fundamentals Track.

Conference Analytics

Word Cloud for All Text Mining Submissions Keywords



This word cloud shows a list of key words found under the abstract section for all the submitted papers in Text Mining Track.

Conference Analytics

Conversation Bot / QA / IR

Comprehension
Dialogue
Question
Model
Answer
Knowledge
Conversation
Research
Generate
Method
Response
Language
Performance

Text Mining

Classification
Networks
Word
Information
Random
Entities
Relation
Tasks
Chinese
Method
Language
Text
Attention
Semantic

Representation
Information
Attention
Discourse
Corpus
Neural
Network
High
Lstm
Characters
Automatic
Embedding
Word
Model
Chinese
Method
Text
Results
Semantic

Knowledge Graph/IE

Ontology
Results
Datasets
Extraction
Dataset
Base
Link
Domain
Prediction
Relations
Sentence
Language
Attention
Graph
Question

Machine Learning for NLP

Information
Text
Task
Learning
Model
Performance
Modeling
Classification
Inference
Graph
Network
Language
Knowledge
Method
Attention
Training
Neural

Machine Translation

Different
Source
Word
Significant
Nmt
Attention
Data
Chinese
Model
Method
Experimental
Transformer
Semantic
Resource
Training
Level
Framework
Language
Neural

Neural
Word
Chinese
Text
Data
Learning
Results
Task
Network
Based
Model
Knowledge
Information
Language
Answer
Attention
Question
Experimental

NLP Fundamentals

NLP for Social Networks

Classification
Network
Language
Sentiment
Features
Data
Prediction
Based
Learning
Experimental
Opinion
Aspects
Attention
Method
Model
Chinese
Results
Information
Text

NLP Applications

Generated
Visual
Method
Model
Word
Text
Learning
Dataset
Language
Experimental
Sentence
Neural
Extensive
Networks
Data
Based
Information
Approach
Chinese
Results
Information

Trends

Conversation Bot / QA / IR

A word cloud centered around the term "Question Model". Other prominent words include "Answer", "Dialogue", "Comprehension", "Research", "Task", "Dataset", "Information", "Results", "Datasets", "Extensive", "Language", and "Performance". A red dashed box highlights the word "Attention".

Knowledge Graph/IE

A word cloud centered around the term "Knowledge Model". Other prominent words include "Ontology", "Extraction", "Dataset", "Base", "Link", "Domain", "Prediction", "Results", "Datasets", "Relations", "Sentence", "Language", "Attention", "Graph", "Embeddings", and "Experimental". A red dashed box highlights the word "Attention".

Machine Learning for NLP

A word cloud centered around the term "Learning Model". Other prominent words include "Text", "Task", "Performance", "Modeling", "Classification", "Inference", "Base", "Data", "Tasks", "Training", "Neural", "Graph", "Network", "Language", "Knowledge", "Method", and "Attention". A red dashed box highlights the word "Attention".

Machine Translation

A word cloud centered around the term "Translation". Other prominent words include "Attention", "Source", "Word", "Significant", "Nmt", "Data", "Chinese", "Model", "Method", "Experimental", "Transformer", "Semantic", "Resource", "Training", "Level", "Framework", "Language", "Neural", and "Different". A red dashed box highlights the word "Attention".

Text Mining

A word cloud centered around the term "Model". Other prominent words include "Classification", "Word", "Sentence", "Information", "Entities", "Data", "Extraction", "Learning", "Level", "Random", "Relation", "Tasks", "Chinese", "Language", "Text", "Method", and "Attention". A red dashed box highlights the word "Attention".

1. Attention Please

NLP Fundamentals

NLP for Social Networks

A word cloud centered around the term "Word Model". Other prominent words include "Neural", "Network", "Language", "Representation", "Information", "Attention", "Discourse", "Corpus", "High", "Lstm", "Characters", "Automatic", "Embedding", "Text", "Results", "Semantic", "Chinese", and "Method". A red dashed box highlights the word "Attention".

A word cloud centered around the term "Sentiment Model". Other prominent words include "Classification", "Network", "Language", "Prediction", "Based", "Learning", "Experimental", "Option", "Aspects", "Features", "Data", "Word", "Results", "Information", "Text", "Attention", and "Method". A red dashed box highlights the word "Attention".

NLP Applications

A word cloud centered around the term "Model". Other prominent words include "Generated", "Visual", "Learning", "Dataset", "Language", "Experimental", "Sentence", "Neural", "Extensive", "Networks", "Word", "Text", "Chinese", "Approach", "Based", "Information", and "Results". A red dashed box highlights the word "Attention".

Trends

Conversation Bot / QA / IR

A cloud-based word cloud with a pink background. The words are in various colors (purple, blue, green, yellow) and include: Comprehension, Dialogue, Network, Question, Model, Answer, Research, Generate, Method, Response, Language, Performance, Knowledge, Conversation, Task, Dataset, Datasets, Extensive, Information, Results, Dataset, Network, Sentence, Language, Performance, Prediction, Sentence, Language, Question, Answer, Embeddings, Experimental.

Knowledge Graph/IE

A cloud-based word cloud with a light blue background. The words are in various colors (blue, green, yellow, red) and include: Ontology, Extraction, Knowledge, Model, Datasets, Dataset, Base, Link, Domain, Prediction, Relations, Sentence, Language, Attention, Graph, Question, Answer, Embeddings, Experimental.

Machine Learning for NLP

A cloud-based word cloud with a yellow background. The words are in various colors (green, blue, red, purple) and include: Information, Text, Task, Learning, Model, Performance, Modeling, Classification, Inference, Data, Tasks, Training, Neural, Graph, Network, Language, Knowledge, Method, Attention.

Machine Translation

A cloud-based word cloud with a green background. The words are in various colors (pink, blue, green, yellow) and include: Different, Attention, Semantic, Source, Word, Significant, Nmt, Chinese, Model, Method, Experimental, Transformer, Training, Resource, Framework, Level, Language, Neural.

Text Mining

A cloud-based word cloud with a light green background. The words are in various colors (blue, green, yellow, red) and include: Classification, Networks, Word, Sentence, Random, Information, Extraction, Entities, Data, Learning, Level, Relation, Tasks, Chinese, Method, Attention, Language, Text, Semantic.

NLP Fundamentals

A cloud-based word cloud with an orange background. The words are in various colors (purple, green, blue, red) and include: Neural, Network, High, Lstm, Characters, Automatic, Embedding, Representation, Information, Attention, Discourse, Corpus, Text, Results, Semantic, Chinese, Method.

NLP for Social Networks

A cloud-based word cloud with a cyan background. The words are in various colors (purple, pink, blue, red) and include: Classification, Network, Language, Sentiment, Model, Features, Data, Results, Information, Text, Prediction, Based, Learning, Experimental, Opinion, Aspects, Attention, Method.

NLP Applications

A cloud-based word cloud with a pink background. The words are in various colors (blue, green, yellow, red) and include: Generated, Visual, Learning, Dataset, Extensive, Network, Sentence, Neural, Chinese, Results, Based, Information.

Trends

Conversation Bot / QA / IR

A word cloud centered around 'Question Model'. Other words include 'Answer', 'Dialogue', 'Comprehension', 'Research', 'Task', 'Dataset', 'Network', 'Information', 'Results', 'Datasets', 'Extensive', 'Generate', 'Method', 'Response', 'Language', and 'Performance'. A red dashed box highlights the word 'Embeddings'.

Knowledge Graph/IE

A word cloud centered around 'Knowledge Model'. Other words include 'Ontology', 'Extraction', 'Dataset', 'Base', 'Link', 'Domain', 'Results', 'Datasets', 'Prediction', 'Relations', 'Sentence', 'Language', 'Q', 'Attention', 'Graph', and 'Embeddings'. A red dashed box highlights the word 'Embeddings'.

Machine Learning for NLP

A word cloud centered around 'Learning Model'. Other words include 'Text', 'Task', 'Performance', 'Modeling', 'Classification', 'Inference', 'Base', 'Data', 'Tasks', 'Training', 'Neural', 'Graph', 'Network', 'Language', 'Knowledge', and 'Method'. A red dashed box highlights the word 'Embeddings'.

Machine Translation

A word cloud centered around 'Translation'. Other words include 'Different', 'Source', 'Word', 'Significant', 'Nmt', 'Data', 'Chinese', 'Model', 'Method', 'Experimental', 'Transformer', 'Semantic', 'Resource', 'Training', 'Level', 'Framework', 'Language', 'Neural', and 'Experimental'. A red dashed box highlights the word 'Embeddings'.

Text Mining

A word cloud centered around 'Model'. Other words include 'Classification', 'Word', 'Sentence', 'Information', 'Extraction', 'Entities', 'Data', 'Learning', 'Level', 'Random', 'Relation', 'Tasks', 'Chinese', 'Method', 'Text', 'Attention', 'Language', and 'Semantic'. A red dashed box highlights the word 'Embeddings'.

NLP Fundamentals

A word cloud centered around 'Word Model'. Other words include 'Neural', 'Network', 'Language', 'Representation', 'Information', 'Attention', 'Discourse', 'Corpus', 'High', 'Lstm', 'Characters', 'Embedding', 'Text', 'Results', 'Semantic', 'Chinese', and 'Method'. A red dashed box highlights the word 'Embedding'.

NLP for Social Networks

A word cloud centered around 'Sentiment Model'. Other words include 'Classification', 'Network', 'Language', 'Prediction', 'Based', 'Learning', 'Experimental', 'Features', 'Data', 'Results', 'Information', 'Text', 'Opinion', 'Aspects', and 'Method'. A red dashed box highlights the word 'Embedding'.

NLP Applications

A word cloud centered around 'Model'. Other words include 'Generated', 'Visual', 'Word', 'Text', 'Learning', 'Dataset', 'Language', 'Experimental', 'Sentence', 'Neural', 'Extensive', 'Networks', 'Chinese', 'Approach', 'Based', 'Information', and 'Results'. A red dashed box highlights the word 'Embedding'.

Thank You

- Our Organization Committee
 - General Chairs: Ken Church and Qun Liu
 - Organization Committee: Dongyan Zhao, Hongzhi Yu and Zhijun Sun
 - Publication Chairs: Sujian Li and Hongying Zan
 - Sponsorship Chairs: Ming Zhao and Tiejun Zhao
- ADL, Tutorial, Student Workshop and Evaluation Chairs
 - Xiaojun Wan, Qi Zhang and Hua Wu
 - Yue Zhang, Jiajun Zhang, Weiwei Sun and Nan Duan



Thank You

- Our **17** Area Chairs
- **287** Primary Reviewers for both our English and Chinese Tracks
- **You!** All of our presenters and attendees of NLPCC