Hai Ye

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Research Interests

- Machine Learning and Deep Learning.
- Natural Language Processing, e.g. Natural Language Generation, Information Extraction, Sentiment Analysis.

Education

Beihang University (BUAA) **Beijing, China**
School of Computer Science and Engineering *Sep. 2013–July 2017*

- Bachelor of Computer Science and Engineering
- Overall GPA: **3.7 / 4.0** Major GPA: **3.7 / 4.0** Ranking: **top 10%**
- 2017 Excellent Graduation Thesis Award (**top 15%**)

Publication (Google Scholar)

- **Semi-Supervised Learning for Neural Keyphrase Generation.**
  Hai Ye, Lu Wang. (2018).
  In proceedings of EMNLP 2018, Long paper
- **Interpretable Charge Prediction: Learning to Generate Court Views from Fact Descriptions.**
  Hai Ye*, Xin Jiang*, Zhunchen Luo*, Wenhan Chao. (2018).
  In proceedings of NAACL 2018, Long paper, Oral. **[PDF]**
- **Interpretable Rationale Augmented Charge Prediction System.**
  Xin Jiang*, **Hai Ye***, Zhunchen Luo*, Wenhan Chao, Wenjia Ma. (2018).
  In proceedings of COLING, System Demonstrations, 2018
- **Jointly Extracting Relations with Class Ties via Effective Deep Ranking.**
  Hai Ye, Wenhan Chao, Zhunchen Luo, Zhoujun Li. (2017).
  In proceedings of ACL 2017, Long paper. **[PDF]**
- **Dependency-tree Based Convolutional Stacked Neural Networks for Aspect Term Extraction.**
  Hai Ye, Zichao Yan, Zhunchen Luo, Wenhan Chao. (2017).
  In proceedings of the Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD), May 23-26, 2017, Jeju, South Korea. (Accepted as **Long Presentation Paper, accept rate:** 9.8%) **[PDF]**
- **Homogenous Color Transfer Using Texture Retrieval and Matching.**
  Chang Xing, **Hai Ye**, Tao Yu, Zhong Zhou. (2016).
  In proceedings of Advances in Multimedia Information Processing - PCM, 2016. **[PDF]**

Research Experience

College of Computer Science and Information Science, Northeastern University **Boston, USA**
Visiting Scholar *March 2018–July 2018*

- *Advisor*: **Prof. Lu, Wang**
- Independent Research on Keyphrase Generation by Semi-supervised Learning. **[EMNLP'2018]**

The Institute of Intelligent Information Processing, Beihang University **Beijing, China**
Research Assistant *July 2016–Jan. 2018*

- *Advisor*: **Zhunchen, Luo**
- Research Program on AI in Law:
  Studied on a novel task of *Court View Generation* from fact descriptions, exploring to improve the interpretability of charge prediction systems. **[NAACL'2018]**
- Research Program on Information Extraction:
  Studied the problem of *Distantly Supervised Relation Extraction*, to exploit the connections between relations, a deep ranking model combined with CNN was proposed to make joint extraction of relations, in which three novel ranking loss function were introduced. **[ACL'2017]**
- Research Program on Sentiment Analysis:
  Studied the problem of *Aspect-based Sentiment Analysis*, to make use of dependency-tree information between aspect terms, a novel Dependency-tree Based Convolutional Stacked Neural Network was proposed, the model outperforms traditional CRF model and RNN model. **[PAKDD'2017]**

State Key Laboratory of Virtual Reality Technology and Systems, Beihang University **Beijing, China**
Research Intern *Mar. 2016–June 2016*

- *Advisor*: **Prof. Zhong, Zhou**
- Research Program on Image Processing:
  Studied the problem of *Image Color Transfer*, to narrow down the gap of color transferring between the fields with different image texture features, a unified color transfer system was proposed: firstly patches with similar texture features were matched, then the colors were transferred between the matched patches. **[PCM'2016]**

Technique skills

Courses: Mathematical Analysis, Linear Algebra, Probability and Statistics, Discrete Mathematics, Data Structure, Algorithm Design, Principle of Computer Organization, Fundamentals of Compiling, Database, Artificial Intelligence, ...

Coding Language: Python, C/C++, Java, Matlab, LaTeX

Deep Learning Platform: Theano, Pytorch

Operating System: Mac OS, Windows, Linux

Honors and Awards

2017: 2nd prize, The 27th Feng Ru Cup, Beihang University

2015, 2016: Subject Contest Scholarship, Science and Technology Contest Scholarship, Beihang University

2016: Honorable Mention, Interdisciplinary Contest in Modeling(ICM)

2014: 2nd Prize, The 6th Chinese Mathematics Competitions, Beijing Division

2014: Outstanding Scholarship, Beihang University