LIN YUAN

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EDUCATION

B.Eng. Computer Science, Zhejiang University   *09/2016 - 06/2020*
· Member of Mixed Class (Computer Science), Chu Kochen Honors College
· Third-year GPA: 3.98/4.0, top 3%; Overall GPA: 3.88/4.0, top 5%;

PUBLICATIONS

Abstractive Dialog Summarization with Semantic Scaffolds
· **Lin Yuan**, Zhou Yu
· ArXiv pre-print [paper]

Legal Summarization for Multi-role Debate Dialogue via Controversy Focus Mining and Multi-task Learning
· Xinyu Duan, Yating Zhang, **Lin Yuan**, Xin Zhou, Xiaozhong Liu, Tianyi Wang, Ruocheng Wang, Qiong Zhang, Changlong Sun, Fei Wu
· CIKM 2019 Long Research Paper [paper]

RESEARCH EXPERIENCE

DavisNLP Lab, University of California, Davis   *07/2019 - 09/2019*
Advisor: Prof. Zhou Yu

Abstractive Dialogue Summarization with Improved Pointer Network
· Work to be submitted to IJCAI 2020
· Proposed Scaffold Pointer Network to utilize the semantic features in dialogues, which improves pointing mechanism for better capturing the entity information
· Achieved best summarization performance on a task-oriented dialogue dataset compared to baseline methods, providing readable and more logical results according to the human evaluation

Digital media Computing & Design Lab, Zhejiang University   *07/2018 - Present*
Advisor: Prof. Fei Wu

Interpretable Charge Prediction System with Causal Inference (in progress)
· Applied causal inference and counterfactual reasoning for article prediction on legal cases
· Investigating possibilities of self-defining explainable legal elements via semi-supervised learning

Legal Extractive Summarization with Multi-task Learning and Legal Knowledge Integration
· Work accepted to CIKM 2019
· Proposed a model that jointly learns controversy focus assignment and multi-role debate extractive summarization
· Applied Legal Knowledge Graph constructed by seven judges for domain-specific knowledge integration
· Released a civil trial court debate dataset consisting of 279,494 court debate records of Private Loan Dispute cases
· Achieved SOTA performance on both tasks and combined assessment, in terms of F1 score, ROUGE and macro ROUGE

TECHNICAL STRENGTHS

Research Interests	Natural Language Processing, Data Mining, Social Computing
Languages & Frameworks	Python, C/C++, Java, R, Verilog, PyTorch, OpenCV, MySQL

HONORS

· Zhejiang Provincial Government Scholarship	*2019*
· First-Class Scholarship for Outstanding Students (top 3%)	*2019*
· Second-Class Scholarship for Outstanding Students (top 8%)	*2018*
· Honor Student Award	*2017*

SELECTED COURSES

All 4.0/4.0
· **AI:** Artificial Intelligence, Computer Vision, Introduction to Data Mining, Computational Photography
· **Systems:** Computer Organization, Computer Architecture, Compiler Principle, Computer Network
· **Theory:** Data Structure & Algorithm Analysis, Cryptography
· **Math:** Mathematical Analysis II, Probability and Mathematical Statistics, Applied Operation Research