Dr. Lanting Fang

Lecturer

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Brief Bio

I am a Lecturer in the School of Cyber Science and Engineering at Southeast University, Nanjing, China. I obtained the doctoral degree from Southeast University, Nanjing, China in 2018, under the supervision of Prof. Lenan Wu. During Ph.D, I was a CSC visiting student in Nanyang Technological University, Singapore, under the supervision of Prof. Siu Cheung Hui in 2016.

My main research interests include natural language processing, data mining and machine learning.

Research Interests

- Social network analysis based on network topology
- Social media analysis based text, image and video information
- Natural language processing, including knowledge graph, sentiment classification and word embedding

Major Grants:

1. **Principal Investigator.** Fake news detection based on transfer learning，National Natural Science Foundation of China (NSFC). 2020/01/01-2022/12/31.

2. **Principal Investigator.** Early of emergency events in social network, Outstanding young teacher scientific research funding. 2021/01/01-2023/12/31
3. **Principal Investigator.** Research on intelligent detection in endogenous safety system, the fundamental research fund，2020/02/28-2021/02/28

Honors and Awards:

- SEU Zhishan Young Scholar Award 2020
- Nomination Award of the 27th Young Teacher Teaching Competition of Southeast University (Top 30%-60%) 2020

University Teaching:

1. Mathematical Fundamentals of Cyberspace Security
2. Pattern Recognition

Publications

[1] **Lanting Fang**, Yong Luo, Kaiyu Feng, Kaiqi Zhao, Aiqun Hu, Knowledge-enriched Attention Network for Word and Multi-Sense Embeddings, IEEE Transactions on Knowledge and Data Engineering, 2022.

[2] Qunke Wang, **Lanting Fang**, Zhenchao Zhu, Jie Huang: Detection Algorithm of the Mimicry Attack based on Variational Auto-Encoder. DSN Workshops 2021: 114-120

[3] Bingcheng Zhu, Zaichen Zhang, Lei Wang, Jian Dang, Liang Wu, **Lanting Fang**, Julian Cheng: Asymptotic Analysis of Diversity Receptions Over Correlated Lognormal-Rician Fading Channels. GLOBECOM 2021: 1-6

[4] **Lanting Fang**, Yong Luo, Kaiyu Feng, Kaiqi Zhao, Aiqun Hu, Knowledge-Enhanced Ensemble Learning for Word Embeddings, The World Wide Web Conference. 2019: 427-437.

[5] **Lanting Fang,** Luu Anh Tuan, Siu Cheung Hui and Lenan Wu. Syntactic based Approach for Grammar Question Retrieval. Information Processing and Management, 2018(54):184-202.

[6] Pu Miao, Chenhao Qi, Lanting Fang, Kang Song, Qingkai Bu: Deep clipping noise mitigation using ISTA with the specified observations for LED-based DCO-OFDM system. IET Commun. 12(20): 2582-2591 (2018)

[7] **Lanting Fang,** Luu Anh Tuan, Siu Cheung Hui and Lenan Wu. Personalized Question Recommendation for English Grammar Learning. Expert Systems, 2017, doi:10.1111/exsy.12244.

[8] **Lanting Fang,** Lenan Wu, and Yudong Zhang. A novel demodulation system based on continuous wavelet transform, Mathematical Problems in Engineering, 2015: 1-9.

[9] **Lanting Fang** and Lenan Wu, Deep Learning Detection Method for Signal Demodulation in Short Range Multi-path Channel, IEEE International Conference on Opto-Electronic Information Processing, 2017, 16-20.

[10] **Lanting Fang,** Luu Anh Tuan, Lenan Wu and Siu Cheung Hui. A Syntactic Parse-key Tree based Approach for English Grammar Question Retrieval, Natural Language Processing and Information Systems, 2017, 353-365. (***EI***)

[11] **Lanting Fang** and Lenan Wu, Signal Classification System using Global-Local Feature Extraction Algorithm, Journal of Southeast University, 2017, 33(4): 432-436. (***EI***)

Patent

A method for calculating the stereo angle of a stereo microscope **No.** CN102749062A

Inventor: Lanting Fang**,** Ming Yang, Kehan Zhu, Xingzhong Mu

An Unsupervised Attack Detection Method in Endogenous Security System **No.** 202011633568.9

Inventor: Lanting Fang**,** Aiqun Hu, Tao Li