

Jing Li

PHD CANDIDATE · NANYANG TECHNOLOGICAL UNIVERSITY (NTU), SINGAPORE

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"All things are difficult before they are easy!"

Interests

1. Information Retrieval / Natural Language Processing

- Question answering based on Deep Learning
- Semantic search
- Named entity recognition
- Knowledge graph

2. Software Engineering

- API Documentation mining
- Human and social aspects of software engineering

3. Signal Processing

- Multiple-input and multiple-output (MIMO) signal
- Compressed sensing

Education

Ph.D.

Nanyang Technological University (NTU), Singapore

MAJORING IN COMPUTER SCIENCE

Dec. 2013 - Dec. 2017

- Thesis: Supporting Information Needs of Developers through Web Q&A Discussions
- Advisors: Aixin Sun and Zhenchang Xing

M.Eng.

University of Electronic Science and Technology of China (UESTC), China

MAJORING IN ELECTRICAL ENGINEERING

Jul. 2010 - Jul. 2013

B.Eng.

University of Electronic Science and Technology of China (UESTC), China

MAJORING IN ELECTRICAL ENGINEERING

Jul. 2006 - Jul. 2010

Honors & Awards

2008	2nd Prize , China Undergraduate Mathematical Contest in Modeling	China
2010	Finalist , Excellent Undergraduate Student Award in Sichuan Province	China
2012	Finalist , Graduate National Scholarship	China
2014	Finalist , Singapore Research Scholarship	Singapore
2016	Finalist , SIGAPP Student Travel Award	ACM

Publications

23. **API Caveat Explorer: Surfacing Negative Usages from Practice**
Jing Li, Aixin Sun, Zhenchang Xing and Lei Han
SIGIR 2018, Under review.
22. **SegBot: A Generic Neural Text Segmentation Model with Pointer Network**
Jing Li, Aixin Sun and Shafiq Joty
IJCAI 2018, Under review.
21. **To Do or Not To Do: Distill Crowdsourced Negative Caveats to Augment API Documentation**
Jing Li, Aixin Sun and Zhenchang Xing
Journal of the Association for Information Science and Technology (JASIST). Elsevier, 2018. Revision.
20. **Leveraging Official Content and Social Context to Recommend Software Documentation**
Jing Li, Zhenchang Xing and Ashad Kabir

19. **Learning to Answer Programming Questions with Software Documentation through Social Context Embedding**
Jing Li, Aixin Sun and Zhenchang Xing
Information Science (INS). Wiley, 2018. Revision.
18. **LinkLive: Discovering web learning resources for developers from Q&A discussions**
Jing Li, Zhenchang Xing and Aixin Sun
World Wide Web Journal (WWWJ). Springer, 2018. Revision
17. **From Discussion to Wisdom: Web Resource Recommendation for Hyperlinks in Stack Overflow**
Jing Li, Zhenchang Xing, Deheng Ye and Xuejiao Zhao
The 31st ACM Symposium on Applied Computing (SAC 2016). pp. 1127-1133. Acceptance rate: 252/1047 (24.07%).
16. **BPMiner: Mining Developers' Behavior Patterns from Screen-Captured Task Videos**
Jing Li, Lingfeng Bao, Zhenchang Xing, Xinyu Wang and Bo Zhou
The 31st ACM Symposium on Applied Computing (SAC 2016). pp. 1371-1377. Acceptance rate: 252/1047 (24.07%).
15. **Extracting and Analyzing Time-Series HCI Data from Screen-Captured Task Videos**
Lingfeng Bao, **Jing Li**, Zhenchang Xing, Xinyu Wang, Xin Xia and Bo Zhou
Empirical Software Engineering (EMSE Journal), Springer, 2016. pp.1-41. (2016 IF: 3.275)
14. **scvRipper: Video Scraping Tool for Modeling Developers' Behavior Using Interaction Data**
Lingfeng Bao, **Jing Li**, Zhenchang Xing, Xinyu Wang and Bo Zhou
The 37th International Conference on Software Engineering (ICSE 2015) Demo, vol.2, pp. 673-676.
13. **Reverse Engineering Time-Series Interaction Data from Screen-Captured Videos**
Lingfeng Bao, **Jing Li**, Zhenchang Xing, Xinyu Wang and Bo Zhou
The 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2015), pp. 399-408. Acceptance rate: 46/144 (32%).
12. **Learning to Extract API Mentions from Informal Natural Language Discussions**
Deheng Ye, Zhenchang Xing, Chee Yong Foo, **Jing Li** and Nachiket Kapre
The 32nd International Conference on Software Maintenance and Evolution (ICSME 2016). Vol. 1, pp. 90-101. Acceptance rate: 37/125 (29%).
11. **Software-specific Named Entity Recognition in Software Engineering Social Content**
Deheng Ye, Zhenchang Xing, Chee Yong Foo, Zi Qun Ang, **Jing Li** and Nachiket Kapre
The 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2016). Vol. 1, pp. 90-101. Acceptance rate: 52/140 (37%).
10. **Software-specific Part-of-speech Tagging: An Experimental Study on Stack Overflow**
Deheng Ye, Zhenchang Xing, **Jing Li** and Nachiket Kapre
The 31st ACM Symposium on Applied Computing (SAC 2016). pp. 1378-1385. Acceptance rate: 252/1047 (24.07%).
9. **HDSKG: Harvesting Domain Specific Knowledge Graph from Content of Webpages**
Xuejiao Zhao, Zhenchang Xing, Muhammad Ashad Kabir, Shangwei Lin, **Jing Li** and Naoya Sawada
The 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2017). Acceptance rate: 34/140 (24.3%).

Before Ph.D.

8. **Applications of Compressed Sensing for Multiple Transmitters Multiple Azimuth Beams SAR Imaging**
Jing Li, Shunsheng Zhang, Junfei Chang
Progress In Electromagnetics Research (PIER), Vol. 127, pp. 259-275, 2012. (2011 IF: 5.298)
7. **Forward-Looking Bistatic SAR Imaging Based On High Order Range Equation And High Order Phase Compensation**
Shunsheng Zhang and **Jing Li***
Journal of Electromagnetic Waves and Applications (JEWA), vol.26, nos.17-18, pp.2304-2314, 2012. *Corresponding author. (2011 IF: 2.965)
6. **Two-Dimensional High Resolution Bistatic SAR Imaging Algorithm Based on Compressed Sensing**
Jing Li, Shunsheng Zhang and Junfei Chang
Signal Processing, vol.28, no.5, pp. 737-743, 2012.

5. **Two-Dimensional Random Sparse Sampling for High resolution SAR Imaging based on Compressed Sensing**
Jing Li, Shunsheng Zhang and Junfei Chang, *IEEE Radar Conference (RadarCon)*, pp.01-05, 2012.
4. **A Novel Two Dimensional Imaging Algorithm Based on Compressed Sensing for Multi-Channel SAR**
Jing Li, Shunsheng Zhang and Junfei Chang
The 9th European Conference on Synthetic Aperture Radar (EUSAR 2012), pp.619-622, 2012.
3. **Bistatic Forward-Looking SAR Imaging Based on Two-Dimensional Principle of Stationary Phase**
Jing Li and Shunsheng Zhang
2012 International Workshop on Microwave and Millimeter Wave Circuits and System Technology (MMWCST2012), pp. 107-110, 2012
2. Empirical Study on the Distribution and Growth Trend of Biotechnology Patents in China
Zhongguo Shi and **Jing Li**
iBusiness, vol. 4 no. 2, pp. 93-97, 2012.
1. A Novel SAR Imaging Algorithm Based on Compressed Sensing
Junfei Chang, Wei Zhang, Shunsheng Zhang and **Jing Li**
2011 IEEE CIE International Conference on Radar (Radar), pp. 1467-1470, 2011.

Teaching / Tutoring Experience

- **2015-2017: Software Engineering, NTU, Singapore**
 - Lab assistant
 - Helping to determine course content
 - Creating and preparing homework assignments and exams
- **2011-2013: Signal and Information Processing, UESTC, China**
 - Teaching recitations
 - Lab assistant
 - Grading assignments

References

Aixin Sun, Ph.D. Associate Professor, School of Computer Science and Engineering , Nanyang Technological University, Singapore. Phone: (+65) 6790 5139 Email: axsun@ntu.edu.sg	Zhenchang Xing, Ph.D. Senior Lecturer, College of Engineering and Computer Science, Australian National University, Australia Phone: (+61)261255692 Email: zhenchang.xing@anu.edu.au	Shunsheng Zhang, Ph.D. Associate Professor, University of Electronic Science and Technology of China, China Email: zhangss@uestc.edu.cn
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