

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

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| 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

-J: Journal -C: Conference

23-C API Caveat Explorer: Surfacing Negative Usages from Practice

Jing Li, Aixin Sun, Zhenchang Xing and Lei Han
SIGIR 2018, Under review.

22-C Neural Discourse Segmentation

Jing Li, Aixin Sun and Shafiq Joty
IJCAI 2018, Under review.

21-J 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-J **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.
- 19-J **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
- 18-J **Leveraging Official Content and Social Context to Recommend Software Documentation**
Jing Li, Zhenchang Xing and Ashad Kabir
IEEE Transactions on Services Computing (TSC). IEEE, 2018. (2016 IF: 3.520)
- 17-C **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-C **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-J **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-C **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-C **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-C **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-C **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-C **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-C **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-J **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-J **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-J **Two-Dimensional High Resolution Bistatic SAR Imaging Algorithm Based on Compressed Sensing**
Jing Li, Shunsheng Zhang and Junfei Chang
Chinese Signal Processing, vol.28, no.5, pp. 737-743, 2012.
- 5-C **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-C **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-C **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-C 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-C 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

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| 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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