Jing LI

PHD CANDIDATE · NANYANG TECHNOLOGICAL UNIVERSITY (NTU), SINGAPORE

School of Computer Science and Engineering (SCSE), Nanyang Technological University (NTU), 50 Nanyang Avenue, Singapore 639798

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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

-J: Journal -C: Conference

23-C   **API Caveat Explorer: Surfacing Nagative Usages from Practice**
Jing Li, Aixin Sun, Zhenchang Xing and Lei Han
SIGIR 2018, Under review.

22-C   **SegBot: A Generic Neural Text Segmentation Model with Pointer Network**
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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Zhenchang Xing, Ph.D.

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Shunsheng Zhang, Ph.D.

Associate Professor,

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