

HAIZHONG ZHENG

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EDUCATION

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| Shanghai Jiao Tong University (SJTU) <i>M.S. in Computer Science and Technology</i> | Shanghai, China <i>Sep. 2015 - Mar. 2018</i> |
| Shanghai Jiao Tong University (SJTU) <i>B.S. in Computer Science and Technology</i> | Shanghai, China <i>Sep. 2011 - Jun. 2015</i> |

PUBLICATION

- **Haizhong Zheng**, Minhui Xue, Hao Lu, Shuang Hao, Haojin Zhu, Xiaohui Liang, Keith Ross, “Smoke Screener or Straight Shooter: Detecting Elite Sybil Attacks in User-Review Social Networks”, *NDSS’18*, 2018
- Qingrong Chen, Minhui Xue, Chong Xiang, Bo Li, **Haizhong Zheng** and Haojin Zhu, “Do We Need Original Data for Training? Toward Designing Privacy-Preserving Machine Learning”, *DLSW’17*, 2017
- Xiaokuan Zhang, **Haizhong Zheng**, Xiaolong Li, Suguo Du, Haojin Zhu, “You are Where You Have Been: Sybil Detection via Geo-location Analysis in OSNs”, *IEEE GLOBECOM’14*, 2014

RESEARCH EXPERIENCE

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| Network Security and Privacy Protection (NSEC) Lab Advisor: Prof. Haojin Zhu | SJTU <i>Mar. 2013 - Mar. 2018</i> |
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- **Privacy-preserving Machine Learning** *Jul. 2017 - Dec. 2017*
 - Designed a mechanism, based on autoencoder and influence function, to protect data privacy by distorting training data.
 - Evaluation of several datasets showed that the influence on the performance is limited to 5% and verified that our mechanism can defend several attacks.

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| ELSIEDET: Detecting Elite Sybils in User-Review Social network | <i>Apr. 2015 - Mar. 2017</i> |
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- Identified a new type of Sybil users, elite Sybil users, which employ a sophisticated strategy for evading detection.
- Designed a three-stage detection system, ELSIEDET, which can identify URSN Sybil users with elaborate camouflage.
- Evaluated ELSIEDET on a dataset with 10,541,931 reviews and got a precision of 93.8% for detection of Elite Sybils.

- **Framework for Distinguishing Malicious Users in Online Social Networks** *Mar. 2013 - Apr. 2014*
 - Designed and implemented a system to crawl information of 2,000 users and 67,721 comments from Dianping.com.
 - Built an SVM classifier to classify the 2,000 users into malicious or benign, and proved that the geo-location feature set could enhance the classification performance of SVM.

WORK EXPERIENCE

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| • Huanxiao Information & Technology Co., Ltd. (59store.com) <i>Intern</i> | Shanghai, China <i>Jan. 2015 - May. 2015</i> |
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- Build an administration system to dispatch goods with PHP.
 - Build the webpage for selecting goods for users with Javascript.
 - Deal with performance issue of servers during a promotion.

SELECTED AWARDS

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| • Academic Excellence Scholarship of Shanghai Jiao Tong University | 2015-2017 |
| • Second Prize in the Twelfth China Post-Graduate Mathematical Contest in Modeling | 2016 |
| • Best Presentation Award in A3 Foresight Program 2015 Annual Workshop | 2015 |
| • Academic Excellence Scholarship of Shanghai Jiao Tong University | 2012-2014 |
| • National Olympiad in Informatics in Provinces (NOIP), First Prize | 2010 |

TECHNICAL STRENGTHS

- **C/C++:** I have implemented a small-C compiler in compiler principle course project and an editor which can be used to edit the scene of irrlicht engine.
- **Python:** Most systems, such as web crawler and detection system, in my research were implemented in Python 3.
- **Matlab:** I used Matlab to complete the project in the Twelfth China Post-Graduate Mathematical Contest in Modeling.
- **Web development(Nodejs, Javascript, PHP, Python, SQL, HTML, CSS):** I have a strong interest in technique about web development and I am familiar with several web development languages and tools which are created for or related to web development (such as gulp, docker). I have participated in the development of several websites(zhenghaizhong.com, hsmake.com, 59store.com, aixinwu.sjtu.edu.cn).
- **Other skills:** L^AT_EX, Git, Tensorflow, Pytorch.