

Li Li

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EDUCATION

University of Science and Technology of China (USTC)

Sep 2016 - Graduation Date

Candidate for Ph.D Cyberspace Security

HeFei China

Honors/Awards:

- National scholarship for Postgraduates (2018)
- **Best Paper Award** of the 14th China Information Hiding Workshop (CIHW 2018)
- **Outstanding Paper Award** of the International Conference on Computer and Communication Systems (ICCCS) 2018

Harbin Engineering University (HEU)

Sep 2012 - Jul 2016

Bachelor Communication Engineering

Harbin China

- GPA: 3.5 / 4.0 (Top 5%)
- Honors/Awards: National Encouragement scholarship(2013,2014), Merit Student of Harbin Engineering University(2014), First-Class scholarship for excellent students of Harbin Engineering University(2013,2014,2015)

RESEARCH & PUBLICATIONS

Research Interests

- **Adversarial steganography and steganalysis:** combine adversarial noise with steganography knowledge to explore adversarial steganography and adversarial steganalysis methods; introducing adversarial noise to batch adversarial steganography and consider how to detect it.
- Steganography and steganalysis on social network: design a multi-perspective steganalysis system, which includes behavioral analysis, traditional steganalysis and a complementary method combining both. In this context, explore the steganography algorithms that consider both algorithmic secure and behavioral secure of the steganographer.

Publications

- Li, L., Zhang W., Chen K., Zha H.. "Steganographic Security Analysis from Side Channel Steganalysis and its Complementary Attacks", 2019. 12, **IEEE Transactions on Multimedia (TMM)**, DOI: 10.1109/TMM.2019.2959909.
- Li L, Zhang W, Chen K, et al. "Side Channel Steganalysis: When Behavior is Considered in Steganographer Detection", *Multimedia Tools and Applications*, 2019, 78(7): 8041-8055.
- Li L, Zhang W et al. "Batch Adversarial Image Steganography against CNN based Pooled Steganalysis" (in draft).
- Li W, Zhang W, Li L, et al. "Designing Near-Optimal Steganographic Codes in Practice Based on Polar Codes" **IEEE Transactions on Communications (TCOM)** (major revision).

Patents

- Zhang W; Yu N; Li L; Yao Y, A Steganographer Detection System based on the Behavior [P], CN201810996553.5, 2018-8-29.
- Zhang W; Yu N; Li W, Li L, Steganography Encoding and Decoding Method, Device and Equipment [P], CN201910360912.2, 2019-5-16.

SKILLS LIST

- **MATLAB** (Proficient)
- **Python** (Proficient)
- **Pytorch** (Basic)
- **Tensorflow** (Basic)

OTHERS

- **Language** : English (fluency), Chinese (native)
- **Participated Activity** : Summer Camp of USTC (Excellent Volunteer) , Huawei Cloud Artificial Intelligence Competition-Garbage Classification Challenge Cup
- **Interest** : Reading, Yoga