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【Education】

2008-2013	Nanyang Technological University, Singapore	Ph. D. (Supervisor: Prof. Alex Kot)
2005-2008	Shanghai University	M.S.
2001-2005	Shanghai University	B.S.

【Work Experience】

2025.12 to present	Fudan University	Professor
2020.12-2025.12	Fudan University	Associate Professor
2017.5-2020.12	Fudan University	Assistant Professor
2016.1-2017.5	Shanghai University	Associate Professor
2013.1-2016.1	Nanyang Technological University, Rapid Rich Object Search Lab (ROSE), Singapore	Research Fellow

【Research Area】

Multimedia data security, AI security

【Research Projects】

	<i>National Natural Science Foundation of China , General Project</i>	
2027-2030	Reasoning AI-Generated Image Detection Based on Multi-Source Evidence	PI
2025-2026	<i>Gene for Health Co., Ltd Research Project:</i> Foundation Model for Chinese Medicine Development	PI
2025-2026	<i>Xidian Collaborative Research Project:</i> Image Processing Plug-ins for XXXX	PI
2025-2026	<i>CCF-Ant Research Fund:</i> Private Protection of Foundation Model	PI
2025-2026	<i>Gene for Health Co., Ltd Research Project:</i> Biological Data Analysis Platform base on TargetSeek	PI
2024-2027	<i>Major Science and Technology Project of Jiangsu Province (sub project):</i> Secure and Controllable Image and Video Generation	PI
2023-2026	<i>The National Key Research and Development Program of China (sub project):</i> Digital Cultural and Creative Product Management and Service Network	PI

2023-2024	<i>Alibaba Innovative Research (AIR) Program:</i> Fake Identity Document Detection based on Occlusion Boundary	PI
2022-2022	<i>SILA Tech Research Project:</i> Package Watermarking	PI
2021-2024	<i>National Natural Science Foundation of China, General Project</i> Robust Image Steganography for Social Networks	PI
2021-2024	<i>National Natural Science Foundation of China, Key Project (sub project):</i> Artificial Intelligence Security Model and Testing Methods	PI
2017-2019	<i>National Natural Science Foundation of China, Youth Project</i> Fingerprint Data Hiding and Disguising	PI
2016-2019	<i>Shanghai Sailing Program:</i> Biometrics Data Disguising	PI
2016-2019	<i>Shanghai Oriental Youth Scholar:</i> Biometrics Data Security	PI

【Awards】

2024	Hiding Networks in Networks	Outstanding Paper of National Information Hiding Conference
2024	Key Development of Digital Asset Protection	Shanghai Science and Technology Progress Award (Second Prize)
2022	Multimedia Data Protection	China Society for the Promotion of Science and Technology Commercialization (Second Prize)
2022	Toward Construction Based Data Hiding: From Secrets to Fingerprint Images	World Artificial Intelligence Conference, Best Paper Nomination
2022	HF-Defend: Defending Against Adver-sarial Examples based on Halftoning	IEEE MMSP, Student Best Paper Award
2011	Attack Using Reconstructed Fingerprint	IEEE WIFS, Student Best Paper Award

【Academic Activities】

2026	International Conference on Multimedia Retrieval (ICMR)	Area Chair
2026	IEEE International Conference on Multimedia & Expo (ICME)	Area Chair
2025	Chinese Conference on Pattern Recognition and Computer Vision (PRCV)	Area Chair
2025	Global AI Attack and Defense Challenge Organizing Committee	Track Organizer
2025-present	National Security Advisory Board of Shanghai	Board Member
2024-present	Big Data Security and Private Computing	TC Member
2022	The International Conference of Machine Vision, Identification and Detection	Committee Member

2022	The International Conference of Information Technology	Student Program Chair
2022-2024	Mathematics (Guest Editorial Board)	Lead Guest Editor
2021-2024	Pattern Recognition Letters (Guest Editorial Board)	Guest Editor
2019-2024	Multimedia Systems (Guest Editorial Board)	Guest Editor
2019-present	China Society of Digital Media Forensics and Security	TC Member

【Book & Publications】

Book:

Z. Qian, S. Li, H. Zhang, Z. Li, Introduction to Financial Technology Security, *Lixin Publisher*, ISBN: 978-7-5429-7782-3, 2026

Peer Reviewed Papers (Selected): *Corresponding author, #Equal Contribution
2026

[1] M. Wang, S. Li*, X. Zhang and G. Feng, “Key-Driven Identity Protection and Secure Traceability for Face-Swapping,” *IEEE Transactions on Dependable and Secure Computing*, to appear. (CCF-A)

[2] S. Cao, G. Liu, M. Xi, S. Li, X. Zhang, Z. Qian, “CHROMA:CMYK-aware Training Towards High-Robustness in Print-Resistant Watermarking,” *IEEE Transactions on Multimedia*, to appear. (CCF-A)

[3] L. Tan, Y. Xue, G. Li, Y. Wang, Z. Qian, S. Li, X. Zhang, C. Bao, “Semantic-Assisted Robust Watermarking for Anti-Counterfeiting in Curved Ceramic Artworks,” *IEEE Transactions on Multimedia*, to appear. (CCF-A)

[4] Y. Xue, L. Tan, G. Li, Z. Zhu, Z. Qian, S. Li, and X. Zhang, “Adversarial 3D-to-Real Watermarking: Revealing Invisible Messages Hidden in Complexly Distorted Surfaces,” *IEEE Transactions on Multimedia*, to appear. (CCF-A)

[5] C. Li, H. Wang, Z. Qian, S. Li*, X. Zhang, J. Liu, Y. Pei, W. Wang, “Towards Trustworthy and Identifiable Virtual Face Generation,” *International Conference on Machine Learning (ICML)*, 2026. (CCF-A)

[6] X. Zeng, X. Hu, S. Li*, Z. Qian, X. Zhang, Bridging Privacy and Provenance: Traceable Virtual Identity Generation, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2026. (CCF-A)

[7] X. Hu, J. Jin, S. Li, W. Peng, X. Zhang, Z. Qian, Spherical Watermark: Encryption-Free, Lossless Watermarking for Diffusion Models, in *Proceedings of International Conference on Learning Representations (ICLR)*, 2026. (CCF-A)

[8] H. Wang, S. Li*, Z. Qian, X. Zhang, Adversarial Diffusion Model: Generating High Quality and Undetectable Images from Scratch, *IEEE Transactions on Information Forensics and Security*, vol. 21, pp. 1725-1736, 2026. (CCF-A)

[9] G. Li, S. Li*, Z. Luo, Z. Qian, X. Zhang, On Cover Independent Deep Neural Network Steganography, *IEEE Transactions on Dependable and Secure Computing*, DOI: 10.1109/TDSC.2025.3647962, to appear. (CCF-A)

2025

[1] M. Wang, G. Hua, S. Li*, and G. Feng, A Key-Driven Framework for Identity-Preserving Face Anonymization, in *Proceedings of Network and Distributed System Security Symposium (NDSS)*, 2025. (CCF-A)

[2] J. Liu, Q. Ying, Z. Qian, S. Li*, R. Zhang, J. liu, X. Zhang, MoFRR: Mixture of Diffusion Models for Face Retouching Restoration, in *Proceedings of IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025. (CCF-A)

[3] Y. Zhu, H. Wang, Z. Qian, S. Li*, X. Zhang, J. Liu, Towards Generalized Physical Occlusion Detection on Documents, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2025. (CCF-A)

[4] C. Wei, H. Wang, Z. Qian, S. Li*, X. Zhang, J. Liu, Learning Discrepant Transformations for Face Privacy Protection, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2025. (CCF-A)

[5] C. Rao, G. Liu, S. Li, X. Zhang, Z. Qian, DynMark: A Robust Watermarking Solution for Dynamic Screen Content with Small-size Screenshot Support, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2025. (CCF-A)

[6] S. Dai, X. Liang, S. Li, Z. Qian, X. Zhang, Safe-BVAR: Text-to-Image Generative Watermarking for Bitwise Visual AutoRegressive Model, in *Proceedings of the 33rd ACM International Conference on Multimedia (ACM MM)*, 2025. (CCF-A)

[7] Q. Zhou, P. Wei, Z. Qian, X. Zhang, S. Li, C. Qin, Conditional Flow-based Generative Steganography, *IEEE Transactions on Dependable and Secure Computing*, vol. 22, no. 5, pp. 5632-5647, 2025. (CCF-A)

[8] G. Liu, S. Cao, Z. Qian, X. Zhang, S. Li and W. Peng, Watermarking One for All: A Robust Watermarking Scheme Against Partial Image Theft, in *Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025. (CCF-A)

[9] Y. Xue, L. Tan, G. Li, Z. Qian, S. Li, X. Zhang, Physical Marker: Revealing Invisible Hyperlinks Hidden in Printed Trademarks, in *Proceedings of the AAAI Conference on Artificial Intelligence(AAAI)*, 2025. (CCF-A)

[10] L. Tan, Y. Xue, G. Li, Z. Qian, S. Li, C. Bao, Embedding Robust Watermarking into Pattern to Protect the Copyright of Ceramic Artifacts. in *Proceedings of the AAAI Conference on Artificial Intelligence(AAAI)*, 2025. (CCF-A)

[11] Q. Zhou, P. Wei, Z. Qian, X. Zhang, S. Li, Improved generative steganography based on diffusion model, *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 35, no. 7, pp. 6494-6507, 2025.

2024

[1] J. Li, H. Wang, S. Li*, Z. Qian, X. Zhang, Are handcrafted filters helpful for attributing AI-

generated images, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2024. (CCF-A)

[2] G. Li, S. Li*, Z. Qian and X. Zhang, Cover-separable Fixed Neural Network Steganography via Deep Generative Models, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2024. (CCF-A)

[3] G. Li, S. Li#, Z. Luo, Z. Qian and X. Zhang, Purified and Unified Steganographic Network, in *Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2024. (CCF-A)

[4] J. Huang, Z. Guo, G. Luo, Z. Qian, S. Li, and X. Zhang, Disentangled Style Domain for Implicit z-Watermark Towards Copyright Protection, in *Proceedings of The Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2024. (CCF-A)

[5] X. Hu, S. Li, Q. Ying, W. Peng, X. Zhang and Z. Qian, Establishing Robust Generative Image Steganography via Popular Stable Diffusion, *IEEE Transactions on Information Forensics and Security*, vol. 19, pp. 8094-8108, 2024. (CCF-A)

[6] X. Liu, Y. Yang, H. Wang, Q. Ying, Z. Qian, X. Zhang and S. Li, Multi-view Feature Extraction via Tunable Prompts is Enough for Image Manipulation Localization, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2024. (CCF-A)

[7]. X. Mao, X. Hu, W. Peng, Z. Gan, Z. Qian, X. Zhang, S. Li, From Covert Hiding To Visual Editing: Robust Generative Video Steganography, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2024. (CCF-A)

[8]. G. Luo, Y. Ma, M. Zhang, J. Huang, S. Li, Z. Qian, X. Zhang, Engaging Live Video Comments Generation, *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2024. (CCF-A)

[9]. Y. Xue, Y. Zhu, Z. Zhu, S. Li, Z. Qian and X. Zhang, Removing Watermarks For Image Processing Networks Via Referenced Subspace Attention, *The Computer Journal*, vol. 67, no. 2, pp. 498-507, 2024.

2023

[1] S. Li, Z. Wang, X. Zhang and X. Zhang, Robust Image Steganography Against General Downsampling Operations With Lossless Secret Recovery, *IEEE Transactions on Dependable and Secure Computing*, vol. 21, no. 1, pp. 340-352, 2023. (CCF-A)

[2] G. Li, S. Li*, M. Li, X. Zhang and Z. Qian, Steganography of Steganographic Networks, in *Proceedings of the AAAI Conference on Artificial Intelligence(AAAI)*, 2023. (CCF-A)

[3] Q. Ying, J. Liu, S. Li*, H. Xu, Z. Qian and X. Zhang, RetouchingFFHQ: A Large-scale Dataset for Fine-grained Face Retouching Detection, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2023. (CCF-A)

[4] Z. Luo, S. Li*, G. Li, Z. Qian and X. Zhang, Securing Fixed Neural Network Steganography, *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2023. (CCF-A)

[5] Q. Wang, S. Li*, X. Zhang and G. Feng, Rethinking Neural Style Transfer: Generating Personalized and Watermarked Stylized Images, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2023. (CCF-A)

- [6] H. Wang, S. Li*, S. Cao, R. Yang, J. Zeng, Z. Qian and X. Zhang, On Physically Occluded Fake Identity Document Detection, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2023. (CCF-A)
- [7] G. Liu, Y. Si, Z. Qian, X. Zhang, S. Li and W. Peng, WRAP: Watermarking Approach Robust Against Film-coating upon Printed Photographs, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2023. (CCF-A)
- [8] J. Tan, N. Zhong, Z. Qian, X. Zhang and S. Li, Deep Neural Network Watermarking against Model Extraction Attack, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2023. (CCF-A)
- [9] Q. Ying, H. Zhou, Z. Qian, S. Li and X. Zhang, Learning to Immunize Images for Tamper Localization and Self-Recovery, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 45, no. 11, pp. 13814-13830, 2023. (CCF-A)
- [10] X. Hu, Q. Ying, Z. Qian, S. Li and X. Zhang, DRAW: Defending Camera-shooted RAW against Image Manipulation, in *Proceedings of IEEE/CVF International Conference on Computer Vision (ICCV)*, 2023. (CCF-A)
- [11] M. Zhang, G. Luo, Y. Ma, S. Li, Z. Qian and X. Zhang, VCMaster: Generating Diverse and Fluent Live Video Comments Based on Multimodal Contexts, *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2023. (CCF-A)
- [12] Q. Wang, S. Li, Z. Wang, X. Zhang and G. Feng, Multi-Source Style Transfer via Style Disentanglement Network, *IEEE Transactions on Multimedia*, vol. 26, pp. 1373-1383, 2023.
- [13] W. Peng, S. Li, Z. Qian and X. Zhang, Text Steganalysis Based on Hierarchical Supervised Learning and Dual Attention Mechanism, *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 31, pp. 3513-3526, 2023.
- [14] Z. Wang, S. Li, X. Zhang and G. Feng, Exploring Abnormal Behavior in Swarm: Identify User Using Adversarial Examples, *IEEE Transactions on Emerging Topics in Computational Intelligence*, vol. 7, no. 1, pp. 250-260, 2023.

2022

- [1] B. Zhang, S. Li*, G. Feng, Z. Qian and X. Zhang, Patch Diffusion: A General Module for Face Manipulation Detection, in *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI)*, 2022. (CCF-A)
- [2] Z. Yuan, Z. You, S. Li*, Z. Qian, X. Zhang and A. C. Kot, On Generating Identifiable Virtual Faces, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2022. (CCF-A)
- [3] Z. You, Q. Ying, S. Li*, Z. Qian and X. Zhang, Image Generation Network for Covert Transmission in Online Social Network, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2022. (CCF-A)
- [4] P. Wei, S. Li, X. Zhang, G. Luo, Z. Qian and Q. Zhou, Generative Steganography Network, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2022. (CCF-A)
- [5] W. Huan, S. Li*, Z. Qian and X. Zhang, Exploring Stable Coefficients on Joint Sub-Bands for Robust Video Watermarking in DT CWT Domain, *IEEE Transactions on Circuits and Systems*

for Video Technology, vol. 32, no. 4, pp. 1955-1965, 2022.

- [6] Y. Qiu, Q. Ying, Y. Yang, H. Zeng, **S. Li*** and Z. Qian, High-Capacity Framework for Reversible Data Hiding in Encrypted Image Using Pixel Prediction and Entropy Encoding, *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 32, no. 9, pp. 5874-5887, 2022.
- [7] Z. Zhu, P. Wei, Z. Qian, **S. Li*** and X. Zhang, Image Sanitization in Online Social Networks: A General Framework for Breaking Robust Information Hiding, *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 33, no. 6, pp. 3017-3029, 2023.
- [8] G. Li, **S. Li***, Z. Qian and X. Zhang, Encryption resistant deep neural network watermarking, in *Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2022.
- [9] Q. Wang, **S. Li**, X. Zhang and G. Feng, Multi-granularity Brushstrokes Network for Universal Style Transfer, *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, vol 18, no. 4, pp.1-17, 2022.
- [10] G. Liu, **S. Li**, Z. Qian and X. Zhang, HF-Defend: Defending Against Adversarial Examples Based on Halftoning, in *Proceedings of IEEE International Workshop on Multimedia Signal Processing (MMSP)*, 2022. **(Best paper award)**

2021&before

- [1] **S. Li**, X. Zhu, G. Feng, X. Zhang and Z. Qian, Diffusing the Liveness Cues for Face Anti-spoofing, in *Proceedings of ACM International Conference on Multimedia (ACM MM)*, 2021. **(CCF-A)**
- [2] X. Zhu, **S. Li***, X. Zhang, H. Li, and A. C. Kot, Detection of Spoofing Medium Contours for Face Anti-spoofing, *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 31, no. 5, pp. 2039-2045, 2021.
- [3] **S. Li***, X. Zhang, Z. Qian, G. Feng and Y. Ren, Key Based Artificial Fingerprint Generation for Privacy Protection, *IEEE Transactions on Dependable and Secure Computing*, vol. 17, no. 4, pp. 828-840, 2020. **(CCF-A)**
- [4] G. Feng, X. Zhang, Y. Ren, Z. Qian and **S. Li***, Diversity-Based Cascade Filters for JPEG Steganalysis, *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 30, no. 2, pp. 376-386, Feb. 2020.
- [5] **S. Li*** and X. Zhang, Toward Construction Based Data Hiding: From Secrets to Fingerprint Images, *IEEE Transactions on Image Processing*, vol. 28, no. 3, pp. 1482-1497, 2019. **(CCF-A, Youth Excellent Paper Nomination of World Artificial Intelligence Conference)**
- [6] J. Tao, **S. Li***, X. Zhang and Z. Wang, Towards Robust Image Steganography, *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 29, no. 2, pp. 594-600, 2019.
- [7] Y. Wang, **S. Li** and A. C. Kot, On Branded Handbag Recognition, *IEEE Transactions on Multimedia*, vol. 18 no. 9, pp. 1869-1881, 2016.
- [8] Y. Wang, **S. Li** and A. C. Kot, Deepbag: Recognizing Handbag Models, *IEEE Transactions on Multimedia*, vol. 17, no.11, pp. 2072-2083, 2015.
- [9] **S. Li** and A. C. Kot, Fingerprint Combination for Privacy Protection, *IEEE Transactions on Information Forensics and Security*, vol. 8, no.2, pp. 350-360, 2013. **(CCF-A)**

- [10] **S. Li** and A. C. Kot, An Improved Scheme for Full Fingerprint Reconstruction, *IEEE Transactions on Information Forensics and Security*, vol. 7, no.6, pp. 1906-1912, 2012. (**CCF-A**)
- [11] **S. Li** and A. C. Kot, Attack Using Reconstructed Fingerprint, *IEEE International Workshop on Information Forensics and Security (WIFS)*, 2011. (**Best Paper Award**)