Hanzhou Wu

CURRICULUM VITAE

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Education

- 1. PhD, Southwest Jiaotong University, Chengdu, China, 2011 2017
- 2. BS, Southwest Jiaotong University, Chengdu, China, 2007 2011

Occupation

- Adjunct Professor, Guizhou Normal University, Guiyang, China, 2024 present
- 2. Associate Professor, Shanghai University, Shanghai, China, 2021 present
- 3. Assistant Professor, Shanghai University, Shanghai, China, 2019 2021
- 4. Research Scientist, Institute of Automation, Chinese Academy of Sciences, Beijing, China, 2017 2019
- 5. Visiting Scholar, New Jersey Institute of Technology, New Jersey, United States, 2014 2016

Research

- 1. Information Hiding Steganography, Steganalysis, Digital Watermarking
- 2. Information Forensics
- 3. Multimedia Security
- 4. Artificial Intelligence Security
- 5. Multimedia Signal Processing
- 6. Natural Language Processing Large Language Models

Editorial Board

- 1. Associate Editor, IEEE Signal Processing Letters, 2025 present
- 2. Scientific Reports, Springer, 2025 present

Services and Activities

- 1. Organization Chair, *IEEE International Workshop on Information Forensics and Security*, 2022.
- 2. Keynote Speech, International Conference on Advances in Multimedia, 2022.
- 3. Steering Committee, *International Conference on Advances in Multimedia*, 2022 2026.
- 4. Technical Committee, APSIPA Multimedia Security and Forensics, 2023 present

- 5. Special Section Chair, APSIPA Annual Summit and Conference, 2024.
- 6. Special Section Chair, "Multimedia and Al Security", *International Conference on Communications and Broadband Networking*, 2025.

Honors and Awards

- 1. Bronze Medal (as a contestant), 35th ACM-ICPC Asia Regional Programming Contest (Tianjin Site), 2010.
- 2. Bronze Medal (as a contestant), 35th ACM-ICPC Asia Regional Programming Contest (Hangzhou Site), 2010.
- 3. Silver Medal (as a contestant), "Google Cup" ACM-ICPC Fudan Invitational Programming Contest (Shanghai Site), 2011.
- 4. Silver Medal (as a contestant), 36th ACM-ICPC Beijing Invitational Programming Contest (Beijing Site), 2011.
- 5. Silver Medal (as a contestant), 36th ACM-ICPC Asia Regional Programming Contest (Chengdu Site), 2011.
- 6. Outstanding Paper Award (1st author), *China Information Hiding Workshop*, 2019.
- 7. Best Presentation Award (1st author), *China Media Forensics and Security Workshop*, 2021.
- 8. Outstanding Paper Award (co-author), *China Media Forensics and Security Workshop*, 2023.

Funding (total funding as of 12/31/2024: CNY 3,000,000 +)

- 1. PI, Natural Science Foundation of Guizhou Province, 2024.
- 2. PI, Natural Science Foundation of Shanghai, 2024.
- 3. Co-PI, Xizang Autonomous Region Central Guided Local Science and Technology Development Fund Project, 2024.
- 4. Co-PI, Natural Science Foundation of China, 2023.
- 5. PI, CCF-Tencent Rhino-Bird Young Faculty Open Research Fund, 2022.
- 6. PI, Natural Science Foundation of China, 2020.
- 7. PI, Shanghai "Chen Guang" Program, 2020.
- 8. PI, China Scholarship Council, 2014.

Book Chapters

- 1. H. Wu. Unsupervised steganographer identification via clustering and outlier detection. *Digital Media Steganography*, Elsevier, 2020.
- 2. H. Wu. Recent advances in reversible watermarking in an encrypted domain. *Advanced Security Solutions for Multimedia*, IOP Science, 2021.
- 3. H. Wu. Graph models in information hiding. *Recent Applications in Graph Theory*, IntechOpen, 2021.
- 4. H. Wu, T. Yang, X. Zheng, Y. Fang. Linguistic steganography and linguistic steganalysis. *Adversarial Multimedia Forensics*, Springer, 2024.

Journal Papers

- 1. G. Xu, H. Wu, Y. Shi. Structural design of convolutional neural networks for steganalysis. *IEEE Signal Processing Letters*, vol. 23, no. 5, pp. 708-712, 2016.
- 2. H. Wu, Y. Shi, H. Wang, L. Zhou. Separable reversible data hiding for encrypted palette images with color partitioning and flipping verification. *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 27, no. 8, pp. 1620-1631, 2017.
- 3. F. Ding, H. Wu, G. Zhu, Y. Shi. METEOR: Measurable energy map toward the estimation of resampling rate via a convolutional neural network. *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 30, no. 12, pp. 4715-4727, 2020.
- 4. Y. Chen, H. Wang, H. Wu, Z. Wu, T. Li, A. Malik. Adaptive video data hiding through cost assignment and STCs. *IEEE Transactions on Dependable and Secure Computing*, vol. 18, no. 3, pp. 1320-1335, 2021.
- 5. H. Wu, B. Yi, F. Ding, G. Feng, X. Zhang. Linguistic steganalysis with graph neural networks. *IEEE Signal Processing Letters*, vol. 28, pp. 558-562, 2021.
- 6. H. Wu, G. Liu, Y. Yao, X. Zhang. Watermarking neural networks with watermarked images. *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 31, no. 7, pp. 2591-2601, 2021.
- 7. Z. Wang, G. Feng, H. Wu, X. Zhang. Data hiding in neural networks for multiple receivers. *IEEE Computational Intelligence Magazine*, vol. 16, no. 4, pp. 70-84, 2021.
- 8. Y. Qin, H. Wu, X. Zhang, G. Feng. Semi-supervised structured subspace learning for multi-view clustering. *IEEE Transactions on Image Processing*, vol. 31, pp. 1-14, 2022.
- 9. B. Yi, H. Wu, G. Feng, X. Zhang. ALiSa: Acrostic linguistic steganography based on BERT and Gibbs sampling. *IEEE Signal Processing Letters*, vol. 29, pp. 687-691, 2022.
- 10. L. Zhou, C. Zhang, Q. Zeng, X. Liu, H. Wu. Optimal low-hit-zone frequency-hopping sequence sets with wide-gap for FHMA systems under follower jamming. *IEEE Communications Letters*, vol. 26, no. 5, pp. 969-973, 2022.
- 11. Y. Qin, H. Wu, J. Zhao, G. Feng. Enforced block diagonal subspace clustering with closed form solution. *Pattern Recognition*, vol. 130, p. 108791, 2022.
- 12. H. Wu, C. Li, G. Liu, X. Zhang. Hiding data hiding. *Pattern Recognition Letters*, vol. 165, pp. 122-127, 2023.
- 13. L. Xiong, T. Peng, F. Li, S. Zeng, H. Wu. Privacy-preserving authentication scheme with revocability for multi-WSN in industrial IoT. *IEEE Systems Journal*, vol. 17, no. 1, pp. 38-49, 2023.
- 14. T. Qiao, Y. Ma, N. Zheng, H. Wu, Y. Chen, M. Xu, X. Luo. A novel model watermarking for protecting generative adversarial network. *Computers & Security*, vol. 127, p. 103102, 2023.
- 15. J. Wang, D. Wu, L. Li, J. Zhao, H. Wu, Y. Tang. Robust periodic blind watermarking based on sub-block mapping and block encryption. *Expert Systems with Applications*, vol. 224, p. 119981, 2023.
- 16. S. Chen, A. Malik, X. Zhang, G. Feng, H. Wu. A fast method for robust video

- watermarking based on Zernike moments. *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 33, no. 12, pp. 7342-7353, 2023.
- 17. T. Yang, H. Wu, B. Yi, G. Feng, X. Zhang. Semantic-preserving linguistic steganography by pivot translation and semantic-aware bins coding. *IEEE Transactions on Dependable and Secure Computing*, vol. 21, no. 1, pp. 139-152, 2024.
- 18. Y. Liu, H. Wu, X. Zhang. Robust and imperceptible black-box DNN watermarking based on Fourier perturbation analysis and frequency sensitivity clustering. *IEEE Transactions on Dependable and Secure Computing*, vol. 21, no. 6, pp. 5766-5780, 2024.
- 19. Y. Qin, N. Pu, H. Wu. Elastic multi-view subspace clustering with pairwise and high-order correlations. *IEEE Transactions on Knowledge and Data Engineering*, vol. 36, no. 2, pp. 556-568, 2024.
- 20. Y. Qin, N. Pu, H. Wu. EDMC: Efficient multi-view clustering via cluster and instance space learning. *IEEE Transactions on Multimedia*, vol. 26, pp. 5273-5283, 2024.
- 21. Y. Qin, Z. Tang, H. Wu, G. Feng. Flexible tensor learning for multi-view clustering with Markov chain. *IEEE Transactions on Knowledge and Data Engineering*, vol. 36, no. 4, pp. 1552-1565, 2024.
- 22. X. Zhao, H. Wu, X. Zhang. Effective backdoor attack on graph neural networks in spectral domain. *IEEE Internet of Things Journal*, vol. 11, no. 7, pp. 12102-12114, 2024.
- 23. Y. Liu, L. Zhang, H. Wu, Z. Wang, X. Zhang. Reducing high-frequency artifacts for generative model watermarking via wavelet transform. *IEEE Internet of Things Journal*, vol. 11, no. 10, pp. 18503-18515, 2024.
- 24. Y. Liu, C. Li, Z. Wang, H. Wu, X. Zhang. Transferable adversarial attack based on sensitive perturbation analysis in frequency domain. *Information Sciences*, vol. 678, p. 120971, 2024.
- 25. D. Wu, J. Wang, J. Zhao, L. Li, Z. Wang, H. Wu. Adaptive robust watermarking for resisting multiple distortions in real scenes. *IEEE Internet of Things Journal*, vol. 11, no. 10, pp. 33229-33246, 2024.
- 26. L. Lin, D. Wu, J. Wang, Y. Chen, X. Zhang, H. Wu. Automatic, robust and blind video watermarking resisting camera recording. *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 34, no. 12, pp. 13413-13426, 2024.
- 27. J. Wang, J. Zhao, L. Li, Z. Wang, H. Wu, D. Wu. Robust blind video watermarking based on ring tensor and BCH coding. *IEEE Internet of Things Journal*, vol. 11, no. 24, pp. 40743-40756, 2024.
- 28. Y. Qin, N. Pu, H. Wu, N. Sebe. Discriminative anchor learning for efficient multi-view clustering. *IEEE Transactions on Multimedia*, vol. 27, pp. 1386-1396, 2025.
- 29. Y. Qin, N. Pu, H. Wu, N. Sebe. Margin-aware noise-robust contrastive learning for partially view-aligned problem. *ACM Transactions on Knowledge Discovery from Data*, vol. 19, no. 1, pp. 1-20, 2025.
- 30. L. Xiong, J. Wang, L. Yu, N. Xiong, H. Wu. An efficient privacy-preserving

access control scheme for cloud computing services. *IEEE Transactions on Consumer Electronics*, vol. 71, no. 2, pp. 6642-6658, 2025.

Conference Papers

- 1. H. Wu, H. Wang, Y. Shi. PPE-based reversible data hiding. *ACM Workshop on Information Hiding and Multimedia Security*, pp. 187-188, 2016.
- 2. G. Xu, H. Wu, Y. Shi. Ensemble of CNNs for steganalysis: an empirical study. *ACM Workshop on Information Hiding and Multimedia Security*, pp. 103-107, 2016.
- 3. H. Wu, H. Wang, Y. Shi. Dynamic content selection-and-prediction framework applied to reversible data hiding. *IEEE International Workshop on Information Forensics and Security*, pp. 1-6, 2016.
- 4. H. Wu, W. Wang, J. Dong, H. Wang. Ensemble reversible data hiding. *IEEE International Conference on Pattern Recognition*, pp. 2676-2681, 2018.
- 5. H. Wu, W. Wang, J. Dong, H. Wang. New graph-theoretic approach to social steganography. *IS&T Electronic Imaging, Media Watermarking, Security and Forensics*, pp. 539-1-539-7, 2019.
- 6. H. Wu, X. Zhang. Reducing invertible embedding distortion using graph matching model. *IS&T Electronic Imaging, Media Watermarking, Security and Forensics*, pp. 21-1-21-10, 2020.
- 7. J. Wang, H. Wu, X. Zhang, Y. Yao. Watermarking in deep neural networks via error back-propagation. *IS&T Electronic Imaging, Media Watermarking, Security and Forensics*, pp. 22-1-22-9, 2020.
- 8. H. Kang, H. Wu, X. Zhang. Generative text steganography based on LSTM network and attention mechanism with keywords. *IS&T Electronic Imaging, Media Watermarking, Security and Forensics*, pp. 291-1-291-8, 2020.
- 9. H. Wu. Patch-level selection and breadth-first prediction strategy for reversible data hiding. *IEEE International Conference on Acoustics, Speech, and Signal Processing*, pp. 2837-2841, 2020.
- 10. X. Zhao, Y. Yao, H. Wu, X. Zhang. Structural watermarking to deep neural networks via network channel pruning. *IEEE International Workshop on Information Forensics and Security*, pp. 1-6, 2021.
- 11. B. Yi, H. Wu, G. Feng, X. Zhang. Exploiting language model for efficient linguistic steganalysis. *IEEE International Conference on Acoustics, Speech, and Signal Processing*, pp. 3074-3078, 2022.
- 12. H. Wu. Prompting steganography: a new paradigm. *IS&T Electronic Imaging, Media Watermarking, Security, and Forensics*, pp. 338-1-338-11, 2024.
- 13. L. Zhang, Y. Liu, X. Zhang, H. Wu. Suppressing high-frequency artifacts for generative model watermarking by anti-aliasing. *ACM Workshop on Information Hiding and Multimedia Security*, pp. 223-234, 2024.
- 14. C. He, D. Wu, X. Zhang, H. Wu. Watermarking text documents with watermarked fonts. *ACM Workshop on Information Hiding and Multimedia Security*, pp. 187-197, 2024.
- 15. X. Zhao, H. Wu, X. Zhang. Transferable watermarking to self-supervised pre-

trained graph encoders by trigger embeddings. *IEEE International Workshop on Information Forensics and Security*, pp. 1-6, 2024.

Full Paper List

https://scholar.google.com/citations?hl=en&user=IdiF7M0AAAAJ