Curriculum Vitae for Professor Wanlei Zhou

January 25, 2024

Personal Details

Name: Wanlei ZHOU

Position: Vice Rector (Academic Affairs), Professor and Dean of Faculty of Data Science

Organisation: City University of Macau, Taipa, Macau SAR. E-mail: wlzhou@cityu.edu.mo; wanlei.zhou@gmail.com

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Citizenship: Australian

Academic Qualifications

2002: DSc. (Higher Doctorate), Deakin University, Melbourne, Australia.

1991: PhD (Comp. Sci.), The Australian National University, Canberra, Australia

(Thesis Title: Network services for distributed computing; Supervisor: Dr Brian

Molinari).

1984: MEng (Comp. Sci. & Eng.), Harbin Institute of Technology, Harbin, China. 1982: BEng (Comp. Sci. & Eng.), Harbin Institute of Technology, Harbin, China.

Employment Summary

- November 2020 : Vice Rector (Academic Affairs) and Dean of Faculty of Data Science, City University of Macau, Taipa, Macau SAR, China.
- October 2023 October 2026: Adjunct Professor, Faculty of Cybersecurity, Guangzhou University, Guangzhou, China.
- June 2018 November 2020: Professor and Head of School, School of Computer Science, University of Technology Sydney, Building 11, 81 Broadway, Ultimo, NSW 2007, Australia.
- January 1994 May 2018: Deakin University, Australia, from Lecturer to Senior Lecturer, to Associate Professor, to Professor, to Head of School, and Associate Dean.
 - January 2016 May 2018: Alfred Deakin Professor (3/10/2013), Chair of Information Technology (2002 31/5/2018), Associate Dean (International Research Engagement) of Faculty of Science, Engineering and Built Environment (1/1/2016 31/52018), Research Director of Strategic Research Centre in Cyber Security (1/8/2017 31/5/2018), Deakin University, Melbourne Campus, Burwood, VIC 3125, Australia.
 - January 2015 December 2015: Visiting Professor, Department of Computing, The Hong Kong Polytechnic University (Jan-Jun 2015); Visiting Professor, School of Computing, National University of Singapore (Jul-Dec 2015); on sabbatical leave from Deakin University.
 - January 2009 January 2015: **Professor of Information Technology and Head**, School of Information Technology, Deakin University, Melbourne Campus, Burwood, VIC 3125, Australia.
 - May 2006 December 2008: **Professor of Information Technology and Associate Dean** (International), Faculty of Science and Technology, Deakin University, Melbourne Campus, Burwood, VIC 3125, Australia.
 - January 2002 April 2006: Professor of Information Technology and Head, School of Information Technology, Deakin University, Melbourne Campus, Burwood, VIC 3125, Australia.
 - January 1999 December 2001: Associate Professor and Deputy Head, School of Computing and Mathematics, Deakin University, Melbourne Campus, Burwood, VIC 3125, Australia.
 - January 1994 December 1998: Lecturer then Senior Lecturer, School of Computing and Mathematics, Deakin University, Geelong Campus, Geelong, VIC 3217, Australia. (June-December 1998: Visiting Researcher in Department of Computer Science, City University of Hong Kong).

- January 1992 January 1994: Lecturer, Department of Information Systems and Computer Science, National University of Singapore, Kent Ridge, Singapore.
- January 1991 January 1992: Lecturer, Department of Computer Technology, Monash University, Caulfield Campus, Melbourne, VIC 3145, Australia.
- November 1987 December 1990: PhD study in The Australia National University, Canberra, Australia
- March 1989 August 1989: System Programmer, Domain Distributed Service, Apollo Computer Inc. (merged with Hewlett-Packard in June 1989), Chelmsford, MA, USA.
- February 1987 November 1987: Visiting Scholar, Department of Computer Science, University of New South Wales, Sydney, NSW 2033, Australia.
- August 1984 February 1987: Lecturer, Department of Computer Science, University of Electronic Science and Technology of China, Chengdu, China.

Professional Services

- Associate Editor: IEEE Transactions on Information Forensics and Security (2013-2016)
- Editor-in-Chief: International Journal of Computers and Applications (published by Taylor&Francis, 2015-2017)
- Member of the ARC College of Experts, 2017-2020.
- Senior Member, IEEE

Research Interests

- Security and privacy,
- distributed and parallel processing systems,
- · data analytics and machine learning, and
- e-learning

Major Research Grants in Recent Years (since 2012)

- 2023-2025: Wanlei Zhou at al., "Privacy-Preserved Cross-border Data Collaborative Management for Credit Investigation", FDCT-NSFC Joint Scientific Research Fund, Grant No. 0051/2022/AFJ. MOP\$1.6 million.
- 2019-2022: Tianqing Zhu, Bo Liu, Wanlei Zhou and Mengmeng Yang, ARC Linkage Project LP180101150: "Privacy preservation for personalised smart device". Total: \$470,000 (ARC \$320,000; Industry: \$150,000).
- 3. 2019-2021: **Wanlei Zhou**, Tianqing Zhu and Phillip Yu, Australian Research Council (ARC) Discovery Project, DP190100981: "Enhancing privacy preserving in dynamic cyberspace," Total: \$314,000.
- 4. 2018-2020: **Wanlei Zhou** and Shui Yu, ARC Discovery Project DP180102828: "Enhancing information credibility using mathematical prediction," Total: \$372,725.
- 5. 2017-2020: **Wanlei Zhou**, Tianqing Zhu, Gang Li and Paul Kidd, ARC Linkage Project LP170100123: "A provable privacy-preserving data sharing system for the cloud environment". Total: \$540,000 (ARC \$300,000; Industry: \$240,000).
- 2017-2020: Yong Xiang; Wanlei Zhou; Gleb Beliakov; Longxiang Gao, ARC Linkage Project LP170100458, "Novel audio watermarking techniques for tracing multimedia piracy". Total: \$400,000 (ARC \$310,000.00; Industry \$90,000).
- 7. 2017-2020: Yang Xiang; Jun Zhang; **Wanlei Zhou**; Sheng Wen; Shigang Liu, ARC Linkage Project LP170100924, "Developing an effective defence to cyber-reputation manipulation attacks". Total: \$639,000 (ARC: \$450,000.00; Industry: \$189,000).
- 8. 2014-2016, **Wanlei Zhou** and Yang Xiang, ARC Discovery Project DP140103649, "Modelling and defence against malware propagation," Total ARC: A\$330,000.
- 9. 2012-2015, Yang Xiang, **Wanlei Zhou**, Vijay Varadharajan, and Jonathan Oliver, ARC Linkage Project LP120200266, "Developing an active defence system to identify malicious domains and websites," Total: \$330,000 (ARC: \$240,000. Industry: \$90,000).
- 10. 2010-2012: **Wanlei Zhou** and Yang Xiang, Australian Research Council Linkage Grant, LP100100208, "An active approach to detect and defend against peer-to-peer botnets," Total: \$192,160 (ARC: \$159,160. Industry: \$33,000).

- 11.2010-2012: **Wanlei Zhou** and Robin Doss, ARC Linkage Grant, LP100100816, "Secure and Efficient Communication in Vehicle-based Radio Frequency Identification Systems," Total: \$192,160 (ARC: \$159,160. Industry: \$33,000).
- 12. 2010-2012: Yang Xiang, **Wanlei Zhou**, and Yong Xiang, ARC Discovery Grant, DP1095498, "Tracing real Internet attackers through information correlation," Total: ARC: A\$220,000.

Keynote Speeches and Tutorials in International Conferences (since 2012)

- 1. Wanlei Zhou, Keynote Address: "Selected Areas of Attacks and Defence in Critical Information Infrastructures", 2024 Critical Information Infrastructures Symposium (CIICS 2024), Beijing, China, 5 June 2024.
- 2. Wanlei Zhou, Keynote Address: "Blockchain-Empowered IoT and Federated Learning: Enhancing Security, Privacy, and Efficiency", 2024CCF中国区块链技术与应用高峰论坛(CCF CBCS2024), 内蒙古呼和浩特市, 2024年8月2-3日
- 3. Wanlei Zhou, Keynote Address: "Machine Unlearning: Realising the 'Right to be Forgotten", IEEE International Conference on Data Science in Cyberspace, (IEEE DSC2024), August 23-26, 2024, Jinan, China
- 4. Wanlei Zhou, Keynote Address: "Adversarial Attacks and Defenses in Deep Learning: from a Perspective of Cybersecurity", The 11th Intelligent Search in Cyberspace & Forum of Future Data. Beijing, China, July 6-8, 2023.
- 5. 周万雷, "从语言模型到ChatGPT 对人工智能模型的理解和应用, 金银湾未来科技沙龙(第十四期)——网信办专场", 珠海, 2023年6月29日.
- 6. 周万雷, "澳门城市大学的数字化变革", 2023 甬港澳教育合作论坛暨数字教育高峰论坛, 香港, 2023 年6月27日
- 7. 周万雷,"建设大数据与智能技术支撑下的新型都会大学",首届大湾区数智化赋能大教育高峰论坛, 深圳, 2023 年5 月27 日
- 8. Wanlei Zhou, Keynote Address: "Balancing Privacy, Fairness, and Accuracy in Machine Learning Models: A Case Study from Cybersecurity Perspective", The 2002 International Symposium on Data Security and Privacy Protection, Xi'An, China, December 10, 2022.
- 9. Wanlei Zhou, Keynote Address: "Mitigate the Impact of Advanced Persistent Threats", The 5th International Conference on Big Earth Data (BED2022), Wuhan, China, November 12-13, 2022.
- 10. Wanlei Zhou, Keynote Address: "Using Game Theoretic Approach to Defend against Advanced Persistent Threats", The 15th China Computer Networks and Information Security Conference & 2022 International Network Security Seminar, Zhengjiang, China, October 25-27, 2022.
- 11. Wanlei Zhou, Keynote Address: "Dealing with malicious agents in intelligent multi-agent applications", The First International Conference on Ubiquitous Security (UbiSec 2021), Guangzhou, China, December 28 31, 2021.
- 12. Wanlei Zhou, Keynote Address: "Countermeasures to Defend against Advanced Persistent Threats", The 8th International Conference on Data Science: Advancement of Data Science and Blockchain, Nanjing, China, November 19-21, 2021.
- 13. Wanlei Zhou, Keynote Address: "Threats and Defenses in Data Security Games", The 7th International Conference on Data Science (ICDCS 2020), Chengdu, China. Dec. 26-27, 2020.
- 14. Wanlei Zhou, Keynote Address: "Threats and Defenses in Cyber Security: Using Game theory to Deceive Cyber Adversaries", University Alliance of the Silk Road (UASR) Events 2020 Security for Cyber Space Workshop, Xi'An, China, November 25, 2020.
- 15. Wanlei Zhou, Keynote Address: "AI Security and Privacy: Case Studies in Dealing with Malicious Agents", International Conference on Security and Privacy in Digital Economy (SPDE 2020), Quzhou, Zhejiang, China. Oct. 30 Nov. 1, 2020.
- 16. Wanlei Zhou, Keynote Address: "AI Security: A Case in dealing with malicious agents", The 19th International Conference on Architectures and Algorithms for Parallel Processing (ICA3PP 2019), 9-11 December 2019, Melbourne, Australia.
- 17. Wanlei Zhou, Keynote Address: "Privacy in Wireless Internet of Things", The 11th IEEE International Conference on Cloud Computing Technology and Science (CloudCom 2019), 11-13 December 2019, Sydney, Australia.
- 18. Wanlei Zhou, Keynote Address: "Enhancing privacy-preserving through differential privacy", The 10th

- International Symposium on Information and Communication Technology (SoICT 2019), 4-6/12/2019, Hanoi, Vietnam.
- 19. Wanlei Zhou, Keynote Address: "AI Security: Impact and Applications", The 5th International Conference on Dependability in Sensor, Cloud, and Big Data Systems and Applications (DependSys 2019), Guangzhou, China, November 12-15, 2019.
- 20. Wanlei Zhou, Keynote Address: "Trust, Security and Privacy in Low-Cost RFID Systems", The 13th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2019), 3-5 July 2019, Sydney, Australia.
- 21. Wanlei Zhou, Keynote Address: "Enhancing Location Privacy in the Digital Age: Selected Application Cases", 2019 International Conference on Data Science (ICDS) 2019, May 18-19, 2019, Ningbo, China.
- 22. Wanlei Zhou, Keynote Address: "Location Privacy and its Applications", International Symposium on Parallel, Architectures, Algorithms and Programming (PAAP'18). December 26-18, 2018, Taipei.
- 23. Wanlei Zhou, Keynote Address: "Location Privacy-preserving in Crowdsensing System", 2018 IEEE Smart World Congress, October 8-12, 2018, Guangzhou, China.
- 24. Wanlei Zhou, Keynote Address: "Preserving privacy in the digital age: Differential privacy and its applications", International Conference on Machine Learning and Data Engineering (iCMLDE2018), 03-07 December 2018, Sydney, Australia.
- 25. Wanlei Zhou, Keynote Address: "Privacy-preserving in Location-Based Services", The 11th International Conference on Security, Privacy and Anonymity in Computation, Communication and Storage (SpaCCS 2018), during 11 13 December 2018, Melbourne, Australia.
- 26. Wanlei Zhou, Keynote Address: "Trust, Security and Privacy in Mobile RFID Systems", Inscrypt 2018: The 14th International Conference on Information Security and Cryptology, 14th December 2018 16th December 2018, Fuzhou, China.
- 27. Wanlei Zhou, Keynote Address: "Enhancing Privacy in Location-Based Services", The 16th IEEE International Conference On Trust, Security and Privacy In Computing And Communications (IEEE TrustCom-17), Sydney, Australia, August 1 4, 2017.
- 28. Wanlei Zhou and Tianqing Zhu, Tutorial: "Preserving privacy in the digital age: Differential privacy and its applications", The 12th International Conference on Green, Pervasive and Cloud Computing, May 11-14, 2017, Amalfi Coast, Italy.
- 29. Wanlei Zhou, Keynote Address: "Recommendations based on Offline Data Processing: Techniques, Features, and Challenges", The 16th IEEE International Conference on Computer and Information Technology (IEEE CIT 2016), Fiji, 7-10 December 2016.
- 30. Wanlei Zhou, Keynote Address: "Security and Privacy in Passive Mobile RFID Systems", 21st Australasian Conference on Information Security and Privacy, Melbourne, Australia, 4-6 July 2016.
- 31. Wanlei Zhou, Keynote Address: "Identifying Propagation Sources in Social Networks", International Symposium on Security and Privacy in Social Networks and Big Data (SocialSec 2015), held in Hangzhou, China, 16-18 November, 2015
- 32. Wanlei Zhou and Tianqing Zhu, Tutorial: "Differential Privacy Techniques for Correlated Dataset", The 15th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2015), in Zhangjiajie, China, November 18-20, 2015
- 33. Wanlei Zhou, Keynote Address: "Identifying Propagation Sources and Modeling Propagation Dynamics in Networks", The 15th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2015), in Zhangjiajie, China, November 18-20, 2015
- 34. Gang Li, Tianqing Zhu and Wanlei Zhou, Tutorial: "Differential Privacy and Its Applications", The 19th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2015), in Ho Chi Minh City, Viet Nam, May 19-22, 2015.
- 35. Wanlei Zhou, Keynote Address: "Modelling the Propagation of Worms and Rumours in Networks", The 2014 International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom-14), 24-26 September, 2014. Beijing, China.
- 36. Wanlei Zhou, Keynote Address: "Recommendation Techniques: Recent Progress and Challenges", ICA3PP 2014/U-Science 2014, August 24-27, 2014. Dalian, China.
- 37. Wanlei Zhou, Keynote Address: "Dealing with Malware Propagation: Modelling and Defence Strategies", The 6th FTRA International Symposium on Advances in Computing, Communications, Security, and Applications (ACSA-14), April 23-25, 2014, Jeju, Korea.
- 38. Wanlei Zhou, Keynote Address: "Authentication, Privacy and Ownership Transfer in Mobile RFID Systems", The 2013 World Ubiquitous Science Congress (U-Science2013): 2013 IEEE International Conference on PICom / ScalCom / DASC / EmbeddedCom, December 21st 22nd, 2013, Chengdu,

- Sichuan, China.
- 39. Wanlei Zhou, Keynote Address: "Recommendation Techniques based on Off-line Data Processing", The 2013 Conference of Hunan Computer Society, held in Zhangjiajie, Hunan, China during November 14-15, 2013.
- 40. Wanlei Zhou, Keynote Address: "Recommendation Techniques based on Off-line Data Processing", The 9th International Conference on Semantics, Knowledge and Grids, held in Beijing, China during Oct 3, 2013 Oct 4, 2013.
- 41. Wanlei Zhou, Keynote Address: "Authentication, Privacy and Ownership Transfer in Mobile RFID Systems", The 7th International Conference on Network and System Security, Madrid, Spain, 3-4 June, 2013.
- 42. Wanlei Zhou, Keynote Address: "Dealing with Worm Propagation: Modelling and Defence Strategies", The Thirteenth International Conference on Parallel and Distributed Computing, Applications and Technologies, Dec 14, 2012 Dec 16, 2012, Beijing, China.
- 43. Wanlei Zhou, Keynote Address: "Traceback of Distributed Denial-of-Service (DDoS) Attacks", The 6th International Conference on Network and System Security, November 21-23, 2012, Wu Yi Shan, Fujian, China.
- 44. Wanlei Zhou, Keynote Address: "Trust Management and Privacy Preservation in Wireless and Sensor Networks", The 9th IEEE International Conference on Ubiquitous Intelligence and Computing, Sep 4-7, 2012, Fukuoka, Japan
- 45. Wanlei Zhou, Keynote Address: "Detection of and Defense Against Distributed Denial-of-Service (DDoS) Attacks", The 11th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom-12), Liverpool, UK, June 25-27, 2012.
- 46. Wanlei Zhou, Keynote Address: "The Microcosmic Model of Worm Propagation", The First International Workshop on Network Forensics, Security and Privacy (NFSP 2012), Macau, June 18-21, 2012.

Journal Publications (since 2012)

I have published more than 400 papers in international journals and international conference proceedings (including book chapters). As shown below, according to Google Scholar (accessed on 25/01/2023), I have over 14,000 citations and an H-Index of 64. Here I only list my recent **journal publications from 2012**. Detailed publication lists can be found from Google Scholar or dblp computer science bibliography listing.

• 2024 accepted/published articles

- 1. Heng Xu, Tianqing Zhu, Lefeng Zhang, Wanlei Zhou, Philip S. Yu, "Machine Unlearning: A Survey". ACM Computing Surveys, 56(1): 9:1-9:36 (2024)
- **2.** Huiqiang Chen, Tianqing Zhu, Tao Zhang, Wanlei Zhou, Philip S. Yu, "Privacy and Fairness in Federated Learning: On the Perspective of Tradeoff". **ACM Computing Surveys**, 56(2): 39:1-39:37 (2024)
- **3.** Hui Sun, Tianqing Zhu, Wenhan Chang, Wanlei Zhou, "A two-stage model extraction attack on GANs with a small collected dataset," **Computers & Security**, Volume 137, 2024, 103634
- **4.** Xiaoya Wang, Tianqing Zhu, Wanlei Zhou, "Supplement data in federated learning with a generator transparent to clients", **Information Sciences**, Volume 666, May 2024, 120437.
- **5.** Faqian Guan, Tianqing Zhu, Wanlei Zhou, Kim-Kwang Raymond Choo, "Graph neural networks: a survey on the links between privacy and security". **Artificial Intelligence Review**, 57(2): 40 (2024)
- **6.** Chi Liu, Tianqing Zhu, Yuan Zhao, Jun Zhang, Wanlei Zhou, "Disentangling different levels of GAN fingerprints for task-specific forensics". **Computer Standards & Interfaces**, 89: 103825 (2024)
- 7. Yunjiao Lei, Dayong Ye, Congcong Zhu, Sheng Shen, Wanlei Zhou, Tianqing Zhu, "A GNN-based teacher-student framework with multi-advice". Expert Systems With Applications. 250: 123887 (2024)
- **8.** Qiong Li, Wanlei Zhou, James Xi Zheng, "Distributed Learning in Intelligent Transportation Systems: A Survey". **Information**. 15(9): 550 (2024)
- 9. Minghao Wang, Tianqing Zhu, Xuhan Zuo, Dayong Ye, Shui Yu, Wanlei Zhou, "Blockchain-Empowered Multiagent Systems: Advancing IoT Security and Transaction Efficiency". **IEEE Internet** of Things Journal. 11(7): 11217-11231 (2024)
- 10. Congcong Zhu, Dayong Ye, Tianqing Zhu, Wanlei Zhou, "Location-Based Real-Time Updated Advising Method for Traffic Signal Control". IEEE Internet of Things Journal. 11(8): 14551-14562 (2024)

- 11. Minghao Wang, Tianqing Zhu, Xuhan Zuo, Dayong Ye, Shui Yu, Wanlei Zhou, "Blockchain-Based Gradient Inversion and Poisoning Defense for Federated Learning". **IEEE Internet of Things Journal**. 11(9): 15667-15681 (2024)
- 12. Minghao Wang, Tianqing Zhu, Xuhan Zuo, Dayong Ye, Shui Yu, Wanlei Zhou, "Public and Private Blockchain Infusion: A Novel Approach to Federated Learning". **IEEE Internet of Things Journal**. 11(10): 17525-17537 (2024)
- 13. Congcong Zhu, Dayong Ye, Huan Huo, Wanlei Zhou, Tianqing Zhu, "A location-based advising method in teacher-student frameworks". **Knowledge-Based Systems**. 285: 111333 (2024)
- **14.** Mengde Han, Tianqing Zhu, Wanlei Zhou, "Fair Federated Learning with Opposite GAN". **Knowledge-Based Systems**. 287: 111420 (2024)
- **15.** Faqian Guan, Tianqing Zhu, Hanjin Tong, Wanlei Zhou, "A realistic model extraction attack against graph neural networks". **Knowledge-Based Systems.** 300: 112144 (2024)
- **16.** Sheng Shen, Dayong Ye, Tianqing Zhu, Wanlei Zhou, "Privacy preservation in deep reinforcement learning: A training perspective". **Knowledge-Based Systems**. 304: 112558 (2024)
- 17. Shuai Zhou, Tianqing Zhu, Dayong Ye, Wanlei Zhou, Wei Zhao, "Inversion-Guided Defense: Detecting Model Stealing Attacks by Output Inverting". IEEE Transactions on Dependable and Secure Computing. 19: 4130-4145 (2024)
- **18.** Dayong Ye, Tianqing Zhu, Kun Gao, Wanlei Zhou, "Defending Against Label-Only Attacks via Meta-Reinforcement Learning". **IEEE Transactions on Information Forensics and Security**. 19: 3295-3308 (2024)
- 19. Yajie Wang, Yi Wu, Shangbo Wu, Ximeng Liu, Wanlei Zhou, Liehuang Zhu, Chuan Zhang, "Boosting the Transferability of Adversarial Attacks With Frequency-Aware Perturbation". IEEE Transactions on Information Forensics and Security. 19: 6293-6304 (2024)
- **20.** Shuai Zhou, Tianqing Zhu, Dayong Ye, Wanlei Zhou, Wei Zhao, Inversion-Guided Defense: Detecting Model Stealing Attacks by Output Inverting. **IEEE Transactions on Information Forensics and Security**. 19: 4130-4145 (2024).
- **21.** Hui Sun, Tianqing Zhu, Wenhan Chang, Wanlei Zhou, "A two-stage model extraction attack on GANs with a small collected dataset". **Computer Security**, 137: 103634 (2024).
- **22.** Yuan Zhao, Bo Liu, Tianqing Zhu, Ming Ding, Xin Yu, Wanlei Zhou, "Proactive image manipulation detection via deep semi-fragile watermark". **Neurocomputing**. 585: 127593 (2024).
- **23.** Guangsheng Zhang, Bo Liu, Tianqing Zhu, Ming Ding, Wanlei Zhou, "PPFed: A Privacy-Preserving and Personalized Federated Learning Framework". **IEEE Internet of Things Journal**. 11(11): 19380-19393 (2024).
- **24.** Kun Gao, Tianqing Zhu, Dayong Ye, Wanlei Zhou, "Defending against gradient inversion attacks in federated learning via statistical machine unlearning", **Knowledge-Based Systems**, 299 (2024) 111983.
- **25.** Huiqiang Chen, Tianqing Zhu, Xin Yu, Wanlei Zhou, "Machine Unlearning via Null Space Calibration", **IJCAI** 2024: 358-366.
- 26. Huan Tian, Guangsheng Zhang, Bo Liu, Tianqing Zhu, Ming Ding, Wanlei Zhou, "When Fairness Meets Privacy: Exploring Privacy Threats in Fair Binary Classifiers via Membership Inference Attacks". IJCAI 2024: 512-520.
- **27.** Guangsheng Zhang, Bo Liu, Huan Tian, Tianqing Zhu, Ming Ding, Wanlei Zhou, "How Does a Deep Learning Model Architecture Impact Its Privacy? A Comprehensive Study of Privacy Attacks on CNNs and Transformers". **USENIX Security Symposium 2024**.

- 1. Chi Liu, Tianqing Zhu, Jun Zhang, Wanlei Zhou, "Privacy Intelligence: A Survey on Image Privacy in Online Social Networks", **ACM Computing Surveys**, Vol 55, Issue 8, August 2023, pp 161:1-161:35, https://doi.org/10.1145/3547299
- 2. Shuai Zhou, Chi Liu, Dayong Ye, Tianqing Zhu, Wanlei Zhou, Philip S. Yu, "Adversarial Attacks and Defenses in Deep Learning: from a Perspective of Cybersecurity", **ACM Computing Surveys**, Vol 55, Issue 8, August 2023, 163:1-163:39, https://doi.org/10.1145/3547330
- 3. Tao Zhang, Tianqing Zhu, Mengde Han, Jing Li, Wanlei Zhou and Philip Yu, "Fairness in Graph-based Semi-supervised Learning". **Knowledge and Information Systems**, 65(2): 543-570 (February 2023).

- 4. Tianqing Zhu, Dayong Ye, Shuan Zhou, Bo Liu and Wanlei Zhou, "Label-only Model Inversion Attacks: Attack with the Least Information," **IEEE Transactions on Information Forensics and Security**, 18: 991-1005 (2023).
- 5. Lefeng Zhang, Tianqing Zhu, Farookh Khadeer Hussain, Dayong Ye, Wanlei Zhou, "A Game-Theoretic Method for Defending Against Advanced Persistent Threats in Cyber Systems", IEEE Transactions on Information Forensics and Security, 18: 1349-1364 (2023).
- 6. Tianqing Zhu, Dayong Ye, Zishuo Cheng, Wanlei Zhou, Philip S. Yu, "Learning Games for Defending Advanced Persistent Threats in Cyber Systems", **IEEE Transactions on Systems, Man, and Cybernetics: Systems.** Vol. 53, No. 4, pp. 2410-2422. April 2023.
- 7. Xuemeng Zhai, Zhiwei Tang, Zhiwei Liu, Wanlei Zhou, Hangyu Hu, Gaolei Fei, Guangmin Hu, "Sparse representation for heterogeneous information networks". **Neurocomputing** 525: 111-122 (2023).
- 8. Xiangyu Hu, Tianqing Zhu, Xuemeng Zhai, Wanlei Zhou, Wei Zhao, "Privacy Data Propagation and Preservation in Social Media: a Real-world Case Study", **IEEE Transactions on Knowledge and Data Engineering**, 35(4): 4137-4150 (2023).
- 9. Lefeng Zhang, Tianqing Zhu, Ping Xiong, Wanlei Zhou, Philip S. Yu, "A Robust Game-Theoretical Federated Learning Framework With Joint Differential Privacy". **IEEE Transactions on Knowledge and Data Engineering**, 35(4): 3333-3346 (2023).
- 10. Hui Sun, Tianqing Zhu, Zhiqiu Zhang, Dawei Jin, Ping Xiong, Wanlei Zhou, "Adversarial Attacks Against Deep Generative Models on Data: A Survey". IEEE Transactions on Knowledge and Data Engineering, 35(4): 3367-3388 (2023).
- 11. Huan Tian, Bo Liu, Tianqing Zhu, Wanlei Zhou, Philip S. Yu, "CIFair: Constructing continuous domains of invariant features for image fair classifications", **Knowledge-Based Systems**, Vol. 268, 23 May 2023, 110417. https://doi.org/10.1016/j.knosys.2023.110417
- 12. Xiangyu Hu, Tianqing Zhu, Xuemeng Zhai, Hengming Wang, Wanlei Zhou, and Wei Zhao, "Privacy Data Diffusion Modeling and Preserving in Online Social Network", **IEEE Transactions on Knowledge and Data Engineering**, Vol. 35, No. 6, pp.6224 6237 (June 2023).
- 13. Minghao Wang, Tianqing Zhu, Xuhan Zuo, Mengmeng Yang, Shui Yu, Wanlei Zhou, "Differentially private crowdsourcing with the public and private blockchain", **IEEE Internet of Things Journal**, Vol. 10, No. 10, pp. 8918-8930 (May 2023).
- 14. Yunjiao Lei, Dayong Ye, Sheng Shen, Yulei Sui, Tianqing Zhu, Wanlei Zhou, "New challenges in reinforcement learning: a survey of security and privacy". **Artificial Intelligence Review**, 56(7): 7195-7236 (2023).
- 15. Congcong Zhu, Zishuo Cheng, Dayong Ye, Farookh Khadeer Hussain, Tianqing Zhu, Wanlei Zhou, "Time-driven and Privacy-preserving Navigation Model for Vehicle-to-vehicle Communication Systems," **IEEE Transactions on Vehicular Technology**, Vol. 72, No. 7, pp.8459-8470. JULY 2023.
- 16. Tao Zhang, Dayong Ye, Tianqing Zhu, Tingting Liao and Wanlei Zhou, "Evolution of cooperation in malicious social networks with differential privacy mechanisms". **Neural Computing and Applications**, Vol. 35, pp. 12979–12994 (2023).
- 17. Tao Zhang, Tianqing Zhu, Jing Li, Wanlei Zhou, Philip S. Yu, "Revisiting model fairness via adversarial examples", **Knowledge-Based Systems**, Volume 277, 2023.
- 18. Lefeng Zhang, Tianqing Zhu, Haibin Zhang, Ping Xiong and Wanlei Zhou, "FedRecovery: Differentially Private Machine Unlearning for Federated Learning Frameworks," **IEEE Transactions on Information Forensics and Security**, vol. 18, pp. 4732-4746, 2023.
- 19. Tao Zhang, Tianqing Zhu, Kun Gao, Wanlei Zhou, Philip S. Yu, "Balancing Learning Model Privacy, Fairness, and Accuracy With Early Stopping Criteria", IEEE Transactions on Neural Networks and Learning Systems, 34(9): 5557-5569 (2023).
- 20. Dayong Ye, Tianqing Zhu, Congcong Zhu, Wanlei Zhou, Philip S. Yu, "Model-Based Self-Advising for Multi-Agent Learning", **IEEE Transactions on Neural Networks and Learning Systems**, 34(10): 7934-7945 (2023).
- 21. Lefeng Zhang, Tianqing Zhu, Ping Xiong, Wanlei Zhou, and Philip S. Yu, "A Game-Theoretic Federated Learning Framework for Data Quality Improvement", **IEEE Transactions on Knowledge and Data Engineering**, Vol. 35, No. 11, pp.10952 10969 (June 2023)
- 22. Guangsheng Zhang, Bo Liu, Tianqing Zhu, Ming Ding, Wanlei Zhou, "Label-Only Membership Inference Attacks and Defenses In Semantic Segmentation Models", IEEE Transactions on

- **Dependable and Secure Computing**, 20(2): 1435-1449 (2023).
- 23. Chi Liu, Huajie Chen, Tianqing Zhu, Jun Zhang, Wanlei Zhou, "Making DeepFakes more spurious: evading deep face forgery detection via trace removal attack", **IEEE Transactions on Dependable and Secure Computing**, Vol 20, Issue: 6, pp.5182 5196 (2023)
- 24. Chi Liu, Tianqing Zhu, Sheng Shen, Wanlei Zhou, "Towards Robust Gan-Generated Image Detection: A Multi-View Completion Representation". **IJCAI 2023**: 464-472.

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