# **Hao Chen**

Email: hchencs@gmail.com haochen.org

RESEARCH INTERESTS

AI-driven security and software engineering. Security of machine learning.

#### **EDUCATION**

EDUCATION	
University of California, Berkeley	1998-08 – 2004-06
PhD in Computer Science	Berkeley, CA, USA
APPOINTMENTS	
Department of Computer Science, University of California	2016-07 – present
Professor	Davis, CA, USA
Department of Computer Science, University of California	2010-07 - 2016-06
Associate Professor	Davis, CA, USA
Department of Computer Science, University of California	2004-07 - 2010-06

Davis, CA, USA

## HONORS AND AWARDS

IEEE Fellow

Assistant Professor

- ACM Distinguished Member
- Outstanding Engineering Faculty Award, UC Davis, 2010
- CAREER Award, National Science Foundation, 2007

# **STUDENTS**

- *Doctoral*: Liang Cai, Jiyu Chen, Jonathan Crussell, Benjamin Davis, Clint Gibler, Yifeng He, Francis Hsu, Gabriel Maganis, Yuan Niu, Yuyang Rong, Ryan Stevens, Matthew Van Gundy
- *Master*: Haitian Chen, Peng Chen, Jeremy Erickson, Eric Gustafson, Kristen Kennedy, Jianzhong Liu, Denys Ma, Dongyu Meng, Radmillo Racic, Jonathan Vronsky, Yuanyi Wu

#### **SERVICES**

# Chair or co-chair of technical program committee

- IEEE Conference on Communications and Network Security (CNS) 2023
- IEEE Mobile Security Technologies (MoST) 2012, 2013

## **Editorial board**

• Associate editor of ACM Transactions on Security and Privacy (TOPS), 2020-present

# Member of program committee

• ACM Conference on Foundations of Data Science (FODS) 2020

- ACM Conference on Computer and Communications Security (CCS) 2017–2019, 2022, 2025
- IEEE Conference on Communications and Network Security (CNS) 2013–2017
- ACM Asia Conference on Computer and Communications Security (ASIACCS) 2006, 2016–2017
- IEEE Mobile Security Technologies (MoST) 2012–2017
- IEEE International Conference on Computer Communications (INFOCOM) 2016
- IEEE Symposium on Security and Privacy (S&P) 2009, 2015
- International Conference on Mobile Systems, Applications, and Services (MobiSys) 2015
- International Conference on Cryptology and Network Security (CANS) 2015
- Annual Computer Security Applications Conference (ACSAC) 2012–2013
- World Wide Web Conference (WWW) 2012
- ACM Conference on Wireless Network Security (WiSec) 2011, 2016
- Network and Distributed System Security Symposium (NDSS) 2006, 2008–2011
- International Conference on Security and Privacy in Communication Networks (SecureComm) 2007–2012
- IEEE Web 2.0 Security and Privacy (W2SP) 2009-2011, 2013
- International Conference on Distributed Computing Systems (ICDCS) 2008
- Usenix Security Symposium 2007

# **FUNDING**

MUMG		
UC Noyce Initiative, PI     AI for Cybersecurity		- 2025-09 \$1 000 000
• NSF 1956364, PI SaTC: CORE: Small: Collaborative: Understanding and Detecting Memory Bu		- 2023-06 \$199 997
• ARL CRA, PI MACRO: Models for Enabling Continuous Reconfigurability of Secure Mission		- 2020-12 \$226 714
• NSF 1801751, PI SaTC: CORE: Medium: Collaborative: Towards Robust Machine Learning Sys		- 2023-07 \$400 000
• Intel, PI Science and Technology Center for Secure Computing (ISTC-SC)	2013-10	- 2017-09 \$150 000
• UC Davis, co-PI Research Investments in the Sciences and Engineering (RISE)	2012-09	- 2015-08 \$860 000
• NSF 1018964, PI Designing New Authentication Mechanisms using Hardware Capabilities in A Mobile Devices	2010-08 Advanced	- 2014-07 \$500 000
• NSF 0831547, co-PI Practical Privacy Preserving Technologies	2008-11	- 2012-10 \$300 000

<ul> <li>University of California MICRO, PI</li></ul>	2008-08 - 2009-12
Leveraging Cellular Networks for Web Authentication	\$11 250
NSF 0644450, PI	2007-07 - 2013-06
CAREER: Securing Broadband Cellular Data Networks	\$400 000
• AFOSR, PI	2007-05 - 2012-04
Helix: A Self-Regenerative Architecture for the Incorruptible Enterprise	\$1 646 000
• I3P, PI	2005-09 - 2007-08
Institute for Information Infrastructure Protection Fellowship	\$150 000
<ul> <li>NSF 0524826, PI</li></ul>	2005-10 - 2006-09
CT-ISG: Reasoning about Composable Intrusion Detection Systems	\$179 110
<ul> <li>NSF 0520320, co-PI</li></ul>	2005-09 – 2008-08
NeTS-NBD: Automatic Validation, Optimization, and Adaptation of Dist	tributed Fire-
walls for Network Performance and Security	\$400 000
• Sprint, PI	2007, 2008
Gift	\$60 000
• Microsoft, PI	2007
Gift	\$5000
• Intel, co-PI	2005
Gift	\$150 000

#### **PUBLICATIONS**

#### In journals

- 1. Li, Q., Guo, Y., Yang, X., Zuo, W. & **Chen**, **H.** Improving Transferability of Adversarial Examples via Bayesian Attacks. *IEEE Transactions on Circuits and Systems for Video Technology* (2025).
- 2. Rong, Y., Zhang, C., Liu, J. & **Chen**, **H.** Valkyrie: Improving Fuzzing Performance Through Deterministic Techniques. *Journal of Systems and Software* **209** (Mar. 2024).
- 3. Du, X., Chen, A., He, B., **Chen**, **H.**, Zhang, F. & Chen, Y. AflIot: Fuzzing on Linux-based IoT Device with Binary-Level Instrumentation. *Computers & Security* **122**. ISSN: 0167-4048 (2022).
- 4. Guo, Y., Li, Q., Zuo, W. & **Chen**, **H.** An Intermediate-level Attack Framework on The Basis of Linear Regression. *IEEE Transactions on Pattern Analysis and Machine Intelligence* **45**, 2726–2735 (2022).
- 5. Liu, Y., Xu, Z., Fan, M., Hao, Y., Chen, K., **Chen**, **H.**, Cai, Y., Yang, Z. & Liu, T. ConcSpectre: Be Aware of Forthcoming Malware Hidden in Concurrent Programs. *IEEE Transactions on Reliability* **71**, 1174–1188 (2022).
- 6. Chen, J., Guo, Y., Zheng, Q. & **Chen**, **H.** Protect Privacy of Deep Classification Networks by Exploiting Their Generative Power. *Machine Learning* **110**, 651–674 (2021).
- 7. Han, W., Cao, C., **Chen**, **H.**, Li, D., Fang, Z., Xu, W. & Wang, X. senDroid: Auditing Sensor Access in Android System-Wide. *IEEE Transactions on Dependable and Secure Computing* **17**, 407–421 (2017).
- 8. Zhang, Y., Yang, M., Gu, G. & **Chen**, **H.** Rethinking Permission Enforcement Mechanism on Mobile Systems. *IEEE Transactions on Information Forensics & Security* **11**, 2227–2240 (2016).

- 9. Crussell, J., Gibler, C. & **Chen**, **H.** AnDarwin: Scalable Detection of Android Application Clones Based on Semantics. *IEEE Transactions on Mobile Computing* **14**, 2007–2019 (2015).
- 10. Van Gundy, M. & **Chen**, **H.** Noncespaces: Using Randomization to Defeat Cross-Site Scripting Attacks. *Computers & Security* **31**, 612–628 (2012).
- 11. Hsu, F., **Chen**, **H.** & Machiraju, S. WebCallerID: Leveraging Cellular Networks for Web Authentication. *Journal of Computer Security* **19**, 869–893 (2011).
- 12. Racic, R., Ma, D., **Chen**, **H.** & Liu, X. Exploiting and Defending Opportunistic Scheduling in Cellular Data Networks. *IEEE Transactions on Mobile Computing* **9**, 609–620. ISSN: 1536-1233 (2009).
- 13. Misherghi, G., Yuan, L., Su, Z., Chuah, C.-N. & **Chen**, **H.** A General Framework for Benchmarking Firewall Optimization Techniques. *IEEE Transactions on Network and Service Management* **5**, 227–238 (2008).
- 14. **Chen**, **H.**, Hu, J. & Sproat, R. Integrating Geometrical and Linguistic Analysis for E-mail Signature Block Parsing. *ACM Transactions on Information Systems* **17**, 343–366 (1999).

# In conference proceedings

- 1. He, Y., Wang, J., Rong, Y. & **Chen**, **H.** FuzzAug: Data Augmentation by Coverage-guided Fuzzing for Neural Test Generation in Conference on Empirical Methods in Natural Language Processing (Suzhou, China, Nov. 5–9, 2025).
- 2. He, Y., Yang, L., Gonzalo, C. & **Chen**, **H.** Evaluating Program Semantics Reasoning with Type Inference in System F in Neural Information Processing Systems (NeurIPS) (San Diego, CA, USA, Nov. 30–Dec. 7, 2025).
- 3. Zhang, H., **Chen**, **H.**, Chen, M. & Zhang, T. *Active Layer-Contrastive Decoding Reduces Hallucination in Large Language Model Generation* in *Conference on Empirical Methods in Natural Language Processing* (Suzhou, China, Nov. 5–9, 2025).
- 4. Liu, F., Zhang, Y., Luo, J., Dai, J., Chen, T., Yuan, L., Yu, Z., Shi, Y., Li, K., Zhou, C., Chen, H. & Yang, M. Make Agent Defeat Agent: Automatic Detection of Taint-Style Vulnerabilities in LLM-based Agents in USENIX Security Symposium (Seattle, WA, USA, Aug. 13–15, 2025).
- 5. He, Y., Wang, E., Rong, Y., Cheng, Z. & **Chen**, **H.** Security of AI Agents in IEEE/ACM International Workshop on Responsible AI Engineering (RAIE) (Ottawa, Ontario, Canada, Apr. 29, 2025).
- 6. Rong, Y., Yu, Z., Weng, Z., Neuendorffer, S. & **Chen**, **H.** *IRFuzzer: Specialized Fuzzing for LLVM Backend Code Generation* in *IEEE/ACM International Conference on Software Engineering (ICSE)* (Ottawa, Ontario, Canada, Apr. 27–May 3, 2025).
- 7. Li, Q., Guo, Y., Zuo, W. & **Chen**, **H.** *Improved Generation of Adversarial Examples Against Safety-aligned LLMs* in *Neural Information Processing Systems (NeurIPS)* (Vancouver, Canada, Dec. 9–15, 2024).
- 8. Huang, J., Zhao, J., Rong, Y., Guo, Y., He, Y. & **Chen**, **H.** Code Representation Pre-training with Complements from Program Executions in Conference on Empirical Methods in Natural Language Processing (EMNLP) (Miami, Florida, USA, Nov. 12–16, 2024).
- 9. Xiong, W., Guo, Y. & **Chen**, **H.** The Program Testing Ability of Large Language Models for Code in Conference on Empirical Methods in Natural Language Processing (EMNLP) (Miami, Florida, USA, Nov. 12–16, 2024).
- 10. Lyu, Y., Xie, Y., Chen, P. & **Chen**, **H.** Prompt Fuzzing for Fuzz Driver Generation in ACM Conference on Computer and Communications Security (CCS) (Salt Lake City, UT, USA, Oct. 14–18, 2024).

- 11. He, Y., Huang, J., Rong, Y., Guo, Y., Wang, E. & **Chen**, **H.** *UniTSyn: A Large-Scale Dataset Capable of Enhancing the Prowess of Large Language Models for Program Testing* in *International Symposium on Software Testing and Analysis (ISSTA)* (Vienna, Austria, Sept. 16–20, 2024).
- 12. Lin, J., Guo, Y. & **Chen**, **H.** *Intrusion Detection at Scale with the Assistance of a Command-line Language Model* in *Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)* (Brisbane, Australia, June 24–27, 2024).
- 13. Li, Q., Guo, Y., Zuo, W. & **Chen**, **H.** *Improving Adversarial Transferability via Intermediate-level Perturbation Decay* in *Neural Information Processing Systems (NeurIPS)* (New Orleans, LA, USA, Dec. 10–16, 2023).
- 14. Li, Q., Guo, Y., Zuo, W. & **Chen**, **H.** Towards Evaluating Transfer-based Attacks Systematically, Practically, and Fairly in Neural Information Processing Systems (NeurIPS) (New Orleans, LA, USA, Dec. 10–16, 2023).
- 15. Chen, P., Xie, Y., Lyu, Y., Wang, Y. & **Chen**, **H.** *HOPPER: Interpretative Fuzzing for Libraries* in *ACM Conference on Computer and Communications Security (CCS)* (Copenhagen, Denmark, Nov. 26–30, 2023).
- 16. Lin, F., Bai, B., Guo, Y., **Chen**, **H.**, Ren, Y. & Xu, Z. *MHCN: a Hyperbolic Neural Network Model for Multi-view Hierarchical Clustering* in *International Conference on Computer Vision (ICCV)* (Paris, France, Oct. 4–6, 2023).
- 17. Zhao, J., Rong, Y., Guo, Y., He, Y. & **Chen**, **H.** *Understanding Programs by Exploiting (Fuzzing) Test Cases* in *Findings of the Association for Computational Linguistics (ACL)* (Toronto, Canada, July 9–14, 2023).
- 18. Li, Q., Guo, Y., Zuo, W. & **Chen**, **H.** Making Substitute Models More Bayesian Can Enhance Transferability of Adversarial Examples in International Conference on Learning Representations (ICLR) (Kigali, Rwanda, May 1–5, 2023).
- 19. Li, Q., Guo, Y., Zuo, W. & Chen, H. Squeeze Training for Adversarial Robustness in International Conference on Learning Representations (ICLR) (Kigali, Rwanda, May 1–5, 2023).
- 20. Rong, Y., Zhang, C., Liu, J. & **Chen**, **H.** *Valkyrie: Improving Fuzzing Performance Through Deterministic Techniques* in *IEEE International Conference on Software Quality, Reliability, and Security (QRS)* (Guangzhou, China, Dec. 5–9, 2022). Best paper award.
- 21. Chen, J., Guo, Y., **Chen**, **H.** & Gong, N. Membership Inference Attack in Face of Data Transformations in IEEE Conference on Communications and Network Security (CNS) (Austin, TX, USA, Oct. 3–5, 2022).
- 22. Liu, B., Bai, B., Xie, W., Guo, Y. & **Chen**, **H.** *Task-optimized User Clustering based on Mobile App Usage for Cold-start Recommendations* in *ACM SIGKDD Conference on Knowledge Discovery and Data Mining* (Washington DC, USA, Aug. 14–18, 2022).
- 23. Jiang, Y., Cao, X., **Chen**, **H.** & Gong, N. Feder: communication-efficient byzantine-robust federated learning in ICLR Workshop on Socially Responsible Machine Learning (SRML) (Apr. 29–29, 2022).
- 24. Liu, Y., Fan, M., Liu, T., Hao, Y., Xu, Z., Chen, K., **Chen**, **H.** & Cai, Y. ConcSpectre: Be Aware of Forthcoming Malware Hidden in Concurrent Programs in IEEE International Conference on Software Quality, Reliability, and Security (QRS) (Dec. 6–10, 2021). Best paper award.
- 25. Liu, Z., Zhu, S., Qin, B., **Chen**, **H.** & Song, L. Automatically Detecting and Fixing Concurrency Bugs in Go Software Systems in International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS) (Apr. 19–23, 2021).
- 26. Guo, Y., Li, Q. & **Chen**, **H.** Backpropagating Linearly Improves Transferability of Adversarial Examples in Neural Information Processing Systems (NeurIPS) (Dec. 6–12, 2020).
- 27. Li, Q., Guo, Y. & Chen, H. Practical No-box Adversarial Attacks against DNNs in Neural Information Processing Systems (NeurIPS) (Dec. 6–12, 2020).

- 28. Chen, H., Jiang, B. & **Chen**, **H.** StyleCAPTCHA: CAPTCHA Based on Style-Transferred Images to Defend against Deep Convolutional Networks in ACM-IMS Foundations of Data Science Conference (FODS) (Oct. 18–20, 2020).
- 29. Rong, Y., Chen, P. & **Chen**, **H.** *Integrity: Finding Integer Errors by Targeted Fuzzing* in *International Conference on Security and Privacy in Communication Networks (SecureComm)* (Oct. 21–23, 2020).
- 30. Li, Q., Guo, Y. & **Chen**, **H.** *Yet Another Intermediate-Level Attack* in *European Conference on Computer Vision (ECCV)* (Aug. 23–28, 2020).
- 31. Jia, Y., Lu, Y., Shen, J., Chen, Q. A., **Chen**, **H.**, Zhong, Z. & Wei, T. Fooling Detection Alone Is Not Enough: Adversarial Attack Against Multiple Object Tracking in International Conference on Learning Representations (ICLR) (Addis Ababa, Ethiopia, Apr. 26–30, 2020).
- 32. Chen, J., Wang, D. & **Chen**, **H.** Explore the Transformation Space for Adversarial Images in ACM Conference on Data and Application Security and Privacy (CODASPY) (New Orleans, LA, USA, Mar. 16–18, 2020).
- 33. Chen, J., Huang, H. & **Chen**, **H.** *Informer: Irregular Traffic Detection for Containerized Microservices RPC in the Real World* in *ACM/IEEE Workshop on Security and Privacy in Edge Computing (Edge S&P)* (Washington DC, USA, Nov. 7–9, 2019).
- 34. Chen, P., Liu, J. & Chen, H. Matryoshka: Fuzzing Deeply Nested Branches in ACM Conference on Computer and Communications Security (CCS) (London, UK, Nov. 11–15, 2019).
- 35. Yen, C.-C., Ghosal, D., Zhang, M., Chuah, C.-N. & **Chen**, **H.** Falsified Data Attack on Backpressure-Based Traffic Signal Control Algorithms in IEEE Vehicular Networking Conference (VNC) (Taipei, Taiwan, Dec. 5–7, 2018).
- 36. Liu, Y., Chen, J. & **Chen**, **H.** Less Is More: Culling the Training Set to Improve Robustness of Deep Neural Networks in Conference on Decision and Game Theory for Security (GameSec) (Seattle, WA, USA, Oct. 29–31, 2018).
- 37. Chen, P. & **Chen**, **H.** *Angora: Efficient Fuzzing by Principled Search* in *IEEE Symposium on Security & Privacy* (San Francisco, CA, USA, May 21–23, 2018).
- 38. Zhang, Y., Dai, J., Zhang, X., Huang, S., Yang, Z., Yang, M. & **Chen**, **H.** Detecting Third-Party Libraries in Android Applications with High Precision and Recall in IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER) (Campobasso, Italy, Mar. 20–23, 2018).
- 39. Meng, D. & **Chen**, **H.** *MagNet: a Two-Pronged Defense Against Adversarial Examples* in *ACM Conference on Computer and Communications Security (CCS)* (Dallas, TX, Oct. 30–Nov. 3, 2017).
- 40. Wu, Y., Meng, D. & **Chen**, **H.** Evaluating Private Modes in Desktop and Mobile Browsers and Their Resistance to Fingerprinting in IEEE Conference on Communications and Network Security (CNS) (Las Vegas, NV, Oct. 9–11, 2017).
- 41. Vronsky, J., Stevens, R. & **Chen**, **H.** SurgeScan: Enforcing Security Policies on Untrusted Third-Party Android Libraries in IEEE Conference on Advanced and Trusted Computing (ATC) (San Francisco, CA, Aug. 4–8, 2017).
- 42. Chen, P. & **Chen**, **H.** Security Analysis of Personal Unmanned Aerial Vehicles in International Conference on Security and Privacy in Communication Networks (SECURECOMM) (Guangzhou, China, Oct. 10–12, 2016).
- 43. Qu, Z., Guo, G., Shao, Z., Rastogi, V., Chen, Y., **Chen**, **H.** & Hong, W. *AppShield: Enabling Multi-Entity Access Control Cross Platforms for Mobile App Management* in *International Conference on Security and Privacy in Communication Networks (SECURECOMM)* (Guangzhou, China, Oct. 10–12, 2016).
- 44. Fang, Z., Han, W., Li, D., Guo, Z., Guo, D., Wang, X. S., Qian, Z. & **Chen**, **H.** RevDroid: Code Analysis of the Side Effects After Dynamic Permission Revocation of Android Apps in ACM Asia Conference on Computer and Communications Security (ASIACCS) (Xi'an, China, May 30–June 3, 2016).

- 45. Stevens, R., Crussell, J. & **Chen**, **H.** On the Origin of Mobile Apps: Network Provenance for Android Applications in ACM Conference on Data and Application Security and Privacy (CODASPY) (New Orleans, LA, Mar. 9–11, 2016).
- 46. Stevens, R. & **Chen**, **H.** Predictive Eviction: a Novel Policy for Optimizing TLS Session Cache Performance in IEEE Global Communications Conference: Communications and Information System Security (GLOBECOM) (San Diego, CA, Dec. 6–10, 2015).
- 47. Zhang, Y., Yang, M., Gu, G. & **Chen**, **H.** FineDroid: Enforcing Permissions with System-Wide Application in International Conference on Security and Privacy in Communication Networks (SECURECOMM) (Dallas, TX, Oct. 26–29, 2015).
- 48. Cai, F., **Chen**, **H.**, Wu, Y. & Zhang, Y. *AppCracker: Widespread Vulnerabilities in User and Session Authentication in Mobile Apps in IEEE Mobile Security Technologies (MoST)* (San Jose, CA, May 21, 2015).
- 49. Crussell, J., Stevens, R. & **Chen**, **H.** *MAdFraud: Investigating Ad Fraud in Android Applications* in *International Conference on Mobile Systems, Applications and Services (MobiSys)* (Bretton Woods, NH, USA, June 16–19, 2014).
- 50. Defreez, D., Shastry, B., **Chen**, **H.** & Seifert, J.-P. *A First Look At Firefox OS Security* in *IEEE Mobile Security Technologies (MoST)* (San Jose, CA, May 17, 2014).
- 51. Posnett, D., Kavaler, D., Gibler, C., **Chen**, **H.**, Devanbu, P. & Filkov, V. *Using and Asking: APIs Used in the Android Market and Asked About in stackoverflow* in *International Conference on Social Informatics (SocInfo)* (Kyoto, Japan, Nov. 25–27, 2013).
- 52. Crussell, J., Gibler, C. & **Chen**, **H.** *Scalable Semantics-Based Detection of Similar Android Applications* in *European Symposium on Research in Computer Security (ESORICS)* (Egham, U.K., Sept. 9–13, 2013).
- 53. Davis, B. & **Chen**, **H.** Retrofitting Android Apps in International Conference on Mobile Systems, Applications and Services (MobiSys) (Taipei, Taiwan, June 25–28, 2013).
- 54. Gibler, C., Stevens, R., Crussell, J., **Chen**, **H.**, Zang, H. & Choi, H. *Characterizing Android Application Plagiarism and Its Impact on Developers* in *International Conference on Mobile Systems, Applications and Services (MobiSys)* (Taipei, Taiwan, June 25–28, 2013).
- 55. Gustafson, E., Kennedy, K. & **Chen**, **H.** Quantifying the Effects of Removing Permissions from Android Applications in IEEE Mobile Security Technologies (MoST) (San Francisco, CA, May 23, 2013).
- 56. Stevens, R., Ganz, J., Devanbu, P., **Chen**, **H.** & Filkov, V. *Asking for (and About) Permissions Used by Android Apps* in *Working Conference on Mining Software Repositories (MSR)* (San Francisco, CA, May 18–19, 2013).
- 57. Crussell, J., Gibler, C. & **Chen**, **H.** Attack of the Clones: Detecting Cloned Applications on Android Markets in European Symposium on Research in Computer Security (ESORICS) (Pisa, Italy, Sept. 10–12, 2012).
- 58. Cai, L. & **Chen**, **H.** On the Practicality of Motion Based Keystroke Infernce Attack in International Conference on Trust & Trustworthy Computing (TRUST) (Vienna, Austria, June 13–15, 2012).
- 59. Gibler, C., Crussell, J., Erickson, J. & **Chen**, **H.** *AndroidLeaks: Automatically Detecting Potential Privacy Leaks in Android Applications on a Large Scale* in *International Conference on Trust & Trustworthy Computing (TRUST)* (Vienna, Austria, June 13–15, 2012).
- 60. Maganis, G., Shi, E., **Chen**, **H.** & Song, D. *Opaak: Using Mobile Phones to Limit Anonymous Identities Online* in *International Conference on Mobile Systems, Applications and Services (MobiSys)* (Low Wood Bay, Lake District, United Kingdom, June 26–28, 2012).
- 61. Davis, B., **Chen**, **H.** & Franklin, M. *Privacy-Preserving Alibi Systems* in *ACM Symposium on Information, Computer and Communications Security (ASIACCS)* (Seoul, South Korea, May 1–3, 2012).

- 62. Davis, B., Sanders, B., Khodaverdian, A. & **Chen**, **H.** *I-ARM-Droid: a Rewriting Framework for In-App Reference Monitors for Android Applications in IEEE Mobile Security Technologies (MoST)* (San Francisco, CA, May 24, 2012).
- 63. Stevens, R., Gibler, C., Crussell, J., Erickson, J. & **Chen**, **H.** *Investigating User Privacy in Android Ad Libraries* in *IEEE Mobile Security Technologies (MoST)* (San Francisco, CA, May 24, 2012).
- 64. Cai, L. & **Chen**, **H.** TouchLogger: Inferring Keystrokes on Touch Screen from Smartphone Motion in USENIX Workshop on Hot Topics in Security (HotSec 11) (San Francisco, CA, Aug. 9–9, 2011).
- 65. Niu, Y. & **Chen**, **H.** Gesture Authentication with Touch Input for Mobile Devices in International Conference on Security and Privacy in Mobile Information and Communication Systems (MobiSec) (Aalborg, Denmark, May 17–19, 2011).
- 66. Cai, L., Zeng, K., **Chen**, **H.** & Mohapatra, P. Good Neighbor: Ad Hoc Pairing of Nearby Wireless Devices by Multiple Antennas in Annual Network and Distributed System Security Symposium (NDSS) (San Diego, CA, Feb. 6–9, 2011).
- 67. Davis, B. & **Chen**, **H.** *DBTaint: Cross-Application Information Flow Tracking Via Databases* in *USENIX Conference on Web Application* (Boston, MA, June 23–24, 2010).
- 68. Cai, L., Machiraju, S. & **Chen**, **H.** CapAuth: a Capability-Based Handover Scheme in IEEE Conference on Computer Communications (INFOCOM) (San Diego, CA, Mar. 15–19, 2010).
- 69. Goldberg, I., Ustaoglu, B., Van Gundy, M. & **Chen**, **H.** *Multi-Party Off-the-Record Messaging* in *ACM Conference on Computer and Communications Security (CCS)* (Chicago, IL, Nov. 9–13, 2009).
- 70. Hsu, F. & **Chen**, **H.** Secure File System Services for Web 2.0 Applications in ACM Cloud Computing Security Workshop (CCSW 2009) (Chicago, IL, Nov. 13–13, 2009).
- 71. Cai, L., Maganis, G., Zang, H. & **Chen**, **H.** Mitigating DoS Attacks on the Paging Channel by Efficient Encoding in Page Messages in International Conference on Security and Privacy in Communication Networks (SecureComm) (Athens, Greece, Sept. 14–18, 2009).
- 72. Cai, L., Machiraju, S. & **Chen**, **H.** Defending Against Sensor-Sniffing Attacks on Mobile Phones in The First ACM SIGCOMM Workshop on Networking, Systems, Applications on Mobile Handhelds (MobiHeld) (Barcelona, Spain, Aug. 17–17, 2009).
- 73. Ye, S., Wu, F., Pandey, R. & **Chen**, **H.** Noise Injection for Search Privacy Protection in IEEE International Conference on Privacy, Security, Risk and Trust (PASSAT) (Vancouver, Canada, Aug. 29–31, 2009).
- 74. Becker, J. & **Chen**, **H.** *Measuring Privacy Risk in Online Social Networks* in *Web 2.0 Security and Privacy (W2SP)* (Oakland, CA, May 21–21, 2009).
- 75. Van Gundy, M. & **Chen**, **H.** Noncespaces: Using Randomization to Enforce Information Flow Tracking and Thwart Cross-Site Scripting Attacks in Annual Network and Distributed System Security Symposium (NDSS) (San Diego, CA, Feb. 8–11, 2009).
- 76. Crites, S., Hsu, F. & **Chen**, **H.** OMash: Enabling Secure Web Mashups Via Object Abstractions in ACM Conference on Computer and Communications Security (CCS) (Alexandria, VA, Oct. 27–31, 2008), 99–107.
- 77. Niu, Y., Hsu, F. & **Chen**, **H.** *iPhish: Phishing Vulnerabilities on Consumer Electronics* in *Usability, Psychology, and Security 2008* (San Francisco, CA, Apr. 14–14, 2008).
- 78. Machiraju, S., **Chen**, **H.** & Bolot, J. Distributed Authentication for Low-Cost Wireless Networks in Workshop on Mobile Computing Systems and Applications (HotMobile) (Napa Valley, CA, Feb. 25–26, 2008), 55–59.
- 79. Racic, R., Ma, D., **Chen**, **H.** & Liu, X. Exploiting Opportunistic Scheduling in Cellular Data Networks in Annual Network and Distributed System Security Symposium (NDSS) (San Diego, CA, Feb. 10–13, 2008), 333–345.

- 80. Van Gundy, M., **Chen**, **H.**, Su, Z. & Vigna, G. Feature Omission Vulnerabilities: Thwarting Signature Generation for Polymorphic Worms in Annual Computer Security Applications Conference (ACSAC) (Miami Beach, FL, Dec. 10–14, 2007), 74–83.
- 81. Wang, Y.-M., Ma, M., Niu, Y. & **Chen**, **H.** Spam Double-Funnel: Connecting Web Spammers with Advertisers in International World Wide Web Conference (WWW) (Banff, Canada, May 8–12, 2007).
- 82. Niu, Y., Wang, Y.-M., **Chen**, **H.**, Ma, M. & Hsu, F. A Quantitative Study of Forum Spamming Using Context-Based Analysis in Annual Network and Distributed System Security Symposium (NDSS) (San Diego, CA, Feb. 28–Mar. 2, 2007), 79–92.
- 83. Hsu, F., **Chen**, **H.**, Ristenpart, T., Li, J. & Su, Z. Back to the Future: a Framework for Automatic Malware Removal and System Repair in Annual Computer Security Applications Conference (ACSAC) (Miami Beach, FL, Dec. 11–15, 2006).
- 84. Racic, R., Ma, D. & **Chen**, **H.** Exploiting MMS Vulnerabilities to Stealthily Exhaust Mobile Phone's Battery in nternational Conference on Security and Privacy in Communication Network (SecureComm) (Baltimore, MD, Aug. 28–Sept. 1, 2006).
- 85. Yuan, L., **Chen**, **H.**, Mai, J., Chuah, C.-N., Su, Z. & Mohapatra, P. *FIREMAN: a Toolkit for FIREwall Modeling and ANalysis* in *IEEE Symposium on Security and Privacy* (Berkeley, CA, May 21–24, 2006), 199–213.
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