

Список литературы

- [1] Vorobyov K, Gauthier F, Bae S, Krishnan P, O'Donoghue R. Synthesis of Java Deserialisation Filters from Examples. In: *46th IEEE Annual Computers, Software, and Applications Conferenc, COMPSAC 2022, Los Alamitos, CA, USA, June 27 - July 1, 2022*, edited by Leong HV, Sarvestani SS, Teranishi Y, Cuzzocrea A, Kashiwazaki H, Towey D, Yang J, Shahriar H. IEEE. 2022; pp. 736–745.
URL <https://doi.org/10.1109/COMPSAC54236.2022.00123>
- [2] Gauthier F, Hassanshahi B, Selwyn-Smith B, Mai TN, Schlüter M, Williams M. Experience: Model-Based, Feedback-Driven, Greybox Web Fuzzing with BackREST. In: *36th European Conference on Object-Oriented Programming, ECOOP 2022, June 6-10, 2022, Berlin, Germany*, edited by Ali K, Vitek J, vol. 222 of *LIPIcs*. Schloss Dagstuhl - Leibniz-Zentrum für Informatik. 2022; pp. 29:1–29:30.
URL <https://doi.org/10.4230/LIPIcs.ECOOP.2022.29>
- [3] Gauthier F, Gogineni VC, Werner S, Huang Y, Kuh A. Resource-Aware Asynchronous Online Federated Learning for Nonlinear Regression. In: *IEEE International Conference on Communications, ICC 2022, Seoul, Korea, May 16-20, 2022*. IEEE. 2022; pp. 2828–2833.
URL <https://doi.org/10.1109/ICC45855.2022.9839079>
- [4] Gauthier F, Bae S. Runtime Prevention of Deserialization Attacks. In: *44th IEEE/ACM International Conference on Software Engineering: New Ideas and Emerging Results ICSE (NIER) 2022, Pittsburgh, PA, USA, May 22-24, 2022*. IEEE. 2022; pp. 71–75.
URL <https://doi.org/10.1109/ICSE-NIER55298.2022.9793530>
- [5] Gauthier F, Bae S. Runtime Prevention of Deserialization Attacks. *CoRR*. 2022;abs/2204.09388.
URL <https://doi.org/10.48550/arXiv.2204.09388>
- [6] Allen N, Gauthier F, Jordan A. IFDS Taint Analysis with Access Paths. *CoRR*. 2021; abs/2103.16240.
URL <https://arxiv.org/abs/2103.16240>
- [7] Gauthier F, Hassanshahi B, Selwyn-Smith B, Mai TN, Schlüter M, Williams M. BackREST: A Model-Based Feedback-Driven Greybox Fuzzer for Web Applications. *CoRR*. 2021; abs/2108.08455.
URL <https://arxiv.org/abs/2108.08455>
- [8] Gauthier F, Gogineni VC, Werner S, Huang Y, Kuh A. Resource-Aware Asynchronous Online Federated Learning for Nonlinear Regression. *CoRR*. 2021;abs/2111.13931.
URL <https://arxiv.org/abs/2111.13931>
- [9] Gauthier F, Gratton C, Venkategowda NKD, Werner S. Privacy-Preserving Distributed Learning with Nonsmooth Objective Functions. In: *54th Asilomar Conference on Signals, Systems, and Computers, ACSCC 2020, Pacific Grove, CA, USA, November 1-4, 2020*, edited by Matthews MB. IEEE. 2020; pp. 42–46.
URL <https://doi.org/10.1109/IEEECONF51394.2020.9443287>
- [10] Gauthier F, Jordan A, Krishnan P, Hassanshahi B, Süß JG, Bae S, Lee H. Trade-offs in managing risk and technical debt in industrial research labs: an experience report. In: *TechDebt '20: International Conference on Technical Debt, Seoul, Republic of Korea, June 28-30, 2020*, edited by Izurieta C, Galster M, Felderer M. ACM. 2020; pp. 98–102.
URL <https://doi.org/10.1145/3387906.3388623>
- [11] Jordan A, Gauthier F, Hassanshahi B, Zhao D. Unacceptable Behavior: Robust PDF Malware Detection Using Abstract Interpretation. In: *Proceedings of the 14th ACM SIGSAC Workshop on Programming Languages and Analysis for Security, CCS 2019, London, United Kingdom, November 11-15, 2019*, edited by Mardziel P, Vazou N. ACM. 2019; pp. 19–30.
URL <https://doi.org/10.1145/3338504.3357341>

- [12] Nielsen BB, Hassanshahi B, Gauthier F. Nodest: feedback-driven static analysis of Node.js applications. In: *Proceedings of the ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering, ESEC/SIGSOFT FSE 2019, Tallinn, Estonia, August 26-30, 2019*, edited by Dumas M, Pfahl D, Apel S, Russo A. ACM. 2019; pp. 455–465.
URL <https://doi.org/10.1145/3338906.3338933>
- [13] Amadini R, Gange G, Gauthier F, Jordan A, Schachte P, Søndergaard H, Stuckey PJ, Zhang C. Reference Abstract Domains and Applications to String Analysis. *Fundam Informaticae*. 2018; 158(4):297–326.
URL <https://doi.org/10.3233/FI-2018-1650>
- [14] Dietrich J, Gauthier F, Krishnan P. Driver Generation for Java EE Web Applications. In: *25th Australasian Software Engineering Conference, ASWEC 2018, Adelaide, Australia, November 26-30, 2018*. IEEE Computer Society. 2018; pp. 121–125.
URL <https://doi.org/10.1109/ASWEC.2018.00024>
- [15] Gauthier F, Hassanshahi B, Jordan A. AFFOGATO: runtime detection of injection attacks for Node.js. In: *Companion Proceedings for the ISSTA/ECOOP 2018 Workshops, ISSTA 2018, Amsterdam, Netherlands, July 16-21, 2018*, edited by Dolby J, Halfond WGJ, Mishra A. ACM. 2018; pp. 94–99.
URL <https://doi.org/10.1145/3236454.3236502>
- [16] Gauthier F, Keynes N, Allen N, Corney D, Krishnan P. Scalable Static Analysis to Detect Security Vulnerabilities: Challenges and Solutions. In: *2018 IEEE Cybersecurity Development, SecDev 2018, Cambridge, MA, USA, September 30 - October 2, 2018*. IEEE Computer Society. 2018; p. 134.
URL <https://doi.org/10.1109/SecDev.2018.00030>
- [17] Brent L, Jurisevic A, Kong M, Liu E, Gauthier F, Gramoli V, Holz R, Scholz B. Vandal: A Scalable Security Analysis Framework for Smart Contracts. *CoRR*. 2018;abs/1809.03981.
URL <http://arxiv.org/abs/1809.03981>
- [18] Jordan A, Gauthier F, Hassanshahi B, Zhao D. SAFE-PDF: Robust Detection of JavaScript PDF Malware Using Abstract Interpretation. *CoRR*. 2018;abs/1810.12490.
URL <http://arxiv.org/abs/1810.12490>
- [19] Amadini R, Jordan A, Gange G, Gauthier F, Schachte P, Søndergaard H, Stuckey PJ, Zhang C. Combining String Abstract Domains for JavaScript Analysis: An Evaluation. In: *Tools and Algorithms for the Construction and Analysis of Systems - 23rd International Conference, TACAS 2017, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017, Uppsala, Sweden, April 22-29, 2017, Proceedings, Part I*, edited by Legay A, Margaria T, vol. 10205 of *Lecture Notes in Computer Science*. 2017; pp. 41–57.
URL https://doi.org/10.1007/978-3-662-54577-5_3
- [20] Steinhauser A, Gauthier F. JSPChecker: Static Detection of Context-Sensitive Cross-Site Scripting Flaws in Legacy Web Applications. In: *Proceedings of the 2016 ACM Workshop on Programming Languages and Analysis for Security, PLAS@CCS 2016, Vienna, Austria, October 24, 2016*, edited by Murray TC, Stefan D. ACM. 2016; pp. 57–68.
URL <https://doi.org/10.1145/2993600.2993606>
- [21] Han Z, Mélineau M, Gauthier F, Merlo E, Li X, Stroulia E. Evolutionary analysis of access control models: a formal concept analysis method. In: *Proceedings of 25th Annual International Conference on Computer Science and Software Engineering, CASCON 2015, Markham, Ontario, Canada, 2-4 November, 2015*, edited by Gould J, Litoiu M, Lutfiyya H. IBM / ACM. 2015; pp. 261–264.
URL <http://dl.acm.org/citation.cfm?id=2886489>
- [22] Gauthier F, Abdul-Nour G, Lagacé D. Special issue: IE in healthcare. *Comput Ind Eng*. 2014; 78:234.
URL <https://doi.org/10.1016/j.cie.2014.09.018>

- [23] Gauthier F, Merlo E, Stroulia E, Turner D. Supporting Maintenance and Evolution of Access Control Models in Web Applications. In: *30th IEEE International Conference on Software Maintenance and Evolution, Victoria, BC, Canada, September 29 - October 3, 2014*. IEEE Computer Society. 2014; pp. 506–510.
URL <https://doi.org/10.1109/ICSME.2014.83>
- [24] Gauthier F, Lavoie T, Merlo E. Uncovering access control weaknesses and flaws with security-discordant software clones. In: *Annual Computer Security Applications Conference, ACSAC '13, New Orleans, LA, USA, December 9-13, 2013*, edited by Jr CNP. ACM. 2013; pp. 209–218.
URL <https://doi.org/10.1145/2523649.2523650>
- [25] Gauthier F, Merlo E. Semantic smells and errors in access control models: a case study in PHP. In: *35th International Conference on Software Engineering, ICSE '13, San Francisco, CA, USA, May 18-26, 2013*, edited by Notkin D, Cheng BHC, Pohl K. IEEE Computer Society. 2013; pp. 1169–1172.
URL <https://doi.org/10.1109/ICSE.2013.6606670>
- [26] Gauthier F, G  linas D, Marcotte P. Vibration of portable orbital sanders and its impact on the development of work-related musculoskeletal disorders in the furniture industry. *Comput Ind Eng*. 2012;62(3):762–769.
URL <https://doi.org/10.1016/j.cie.2011.11.035>
- [27] Gauthier F, Merlo E. Investigation of Access Control Models with Formal Concept Analysis: A Case Study. In: *16th European Conference on Software Maintenance and Reengineering, CSMR 2012, Szeged, Hungary, March 27-30, 2012*, edited by Mens T, Cleve A, Ferenc R. IEEE Computer Society. 2012; pp. 397–402.
URL <https://doi.org/10.1109/CSMR.2012.50>
- [28] Gauthier F, Merlo E. Alias-Aware Propagation of Simple Pattern-Based Properties in PHP Applications. In: *12th IEEE International Working Conference on Source Code Analysis and Manipulation, SCAM 2012, Riva del Garda, Italy, September 23-24, 2012*. IEEE Computer Society. 2012; pp. 44–53.
URL <https://doi.org/10.1109/SCAM.2012.19>
- [29] Letarte D, Gauthier F, Merlo E, Sutanyong N, Zuzarte C. Targeted genetic test SQL generation for the DB2 database. In: *Proceedings of the Fifth International Workshop on Testing Database Systems, DBTest 2012, Scottsdale, AZ, USA, May 21, 2012*, edited by Lo E, Waas F. ACM. 2012; p. 5.
URL <https://doi.org/10.1145/2304510.2304517>
- [30] Gauthier F, Merlo E. Fast Detection of Access Control Vulnerabilities in PHP Applications. In: *19th Working Conference on Reverse Engineering, WCRE 2012, Kingston, ON, Canada, October 15-18, 2012*. IEEE Computer Society. 2012; pp. 247–256.
URL <https://doi.org/10.1109/WCRE.2012.34>
- [31] Letarte D, Gauthier F, Merlo E. Security Model Evolution of PHP Web Applications. In: *Fourth IEEE International Conference on Software Testing, Verification and Validation, ICST 2011, Berlin, Germany, March 21-25, 2011*. IEEE Computer Society. 2011; pp. 289–298.
URL <https://doi.org/10.1109/ICST.2011.36>
- [32] Gauthier F, Letarte D, Lavoie T, Merlo E. Extraction and comprehension of moodle’s access control model: A case study. In: *Ninth Annual Conference on Privacy, Security and Trust, PST 2011, 19-21 July, 2011, Montreal, Qu  bec, Canada*. IEEE. 2011; pp. 44–51.
URL <https://doi.org/10.1109/PST.2011.5971962>