Список литературы

- [Allen et al.(2021)Allen, Gauthier, & Jordan] Allen, N., Gauthier, F., & Jordan, A. (2021). IFDS taint analysis with access paths. CoRR, abs/2103.16240. URL https://arxiv.org/abs/2103.16240.
- [Amadini et al.(2018)Amadini, Gange, Gauthier, Jordan, Schachte, Søndergaard, Stuckey, & Zhang] Amadini, R., Gange, G., Gauthier, F., Jordan, A., Schachte, P., Søndergaard, H., Stuckey, P. J., & Zhang, C. (2018). Reference abstract domains and applications to string analysis. Fundam. Informaticae, 158(4), 297–326. URL https://doi.org/10.3233/FI-2018-1650.
- [Amadini et al.(2017) Amadini, Jordan, Gange, Gauthier, Schachte, Søndergaard, Stuckey, & Zhang] Amadini, R., Jordan, A., Gange, G., Gauthier, F., Schachte, P., Søndergaard, H., Stuckey, P. J., & Zhang, C. (2017). Combining string abstract domains for javascript analysis: An evaluation. In A. Legay & T. Margaria (Eds.), 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. vol. 10205 of Lecture Notes in Computer Science, 41-57. URL https://doi.org/10.1007/978-3-662-54577-5_3.
- [Brent et al.(2018)Brent, Jurisevic, Kong, Liu, Gauthier, Gramoli, Holz, & Scholz] Brent, L., Jurisevic, A., Kong, M., Liu, E., Gauthier, F., Gramoli, V., Holz, R., & Scholz, B. (2018). Vandal: A scalable security analysis framework for smart contracts. CoRR, abs/1809.03981. URL http://arxiv.org/abs/1809.03981.
- [Dietrich et al.(2018)Dietrich, Gauthier, & Krishnan] Dietrich, J., Gauthier, F., & Krishnan, P. (2018). Driver generation for java EE web applications. In 25th Australasian Software Engineering Conference, ASWEC 2018, Adelaide, Australia, November 26-30, 2018. IEEE Computer Society, 121–125. URL https://doi.org/10.1109/ASWEC.2018.00024.
- [Gauthier et al.(2014a)Gauthier, Abdul-Nour, & Lagacé] Gauthier, F., Abdul-Nour, G., & Lagacé, D. (2014a). Special issue: IE in healthcare. Comput. Ind. Eng., 78, 234. URL https://doi.org/10.1016/j.cie.2014.09.018.
- [Gauthier & Bae(2022a)] Gauthier, F. & Bae, S. (2022a). 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, 71-75. URL https://doi.org/10.1109/ICSE-NIER55298.2022.9793530.
- [Gauthier & Bae(2022b)] Gauthier, F. & Bae, S. (2022b). Runtime prevention of deserialization attacks. CoRR, abs/2204.09388. URL https://doi.org/10.48550/arXiv.2204.09388.
- [Gauthier et al.(2012)Gauthier, Gélinas, & Marcotte] Gauthier, F., Gélinas, D., & Marcotte, P. (2012). Vibration of portable orbital sanders and its impact on the development of work-related musculoskeletal disorders in the furniture industry. Comput. Ind. Eng., 62(3), 762–769. URL https://doi.org/10.1016/j.cie.2011.11.035.
- [Gauthier et al.(2021a)Gauthier, Gogineni, Werner, Huang, & Kuh] Gauthier, F., Gogineni, V. C., Werner, S., Huang, Y., & Kuh, A. (2021a). Resource-aware asynchronous online federated learning for nonlinear regression. *CoRR*, abs/2111.13931. URL https://arxiv.org/abs/2111.13931.
- [Gauthier et al.(2022a)Gauthier, Gogineni, Werner, Huang, & Kuh] Gauthier, F., Gogineni, V. C., Werner, S., Huang, Y., & Kuh, A. (2022a). Resource-aware asynchronous online federated learning for nonlinear regression. In *IEEE International Conference on Communications*, *ICC 2022*, Seoul, Korea, May 16-20, 2022. IEEE, 2828–2833. URL https://doi.org/10.1109/ICC45855.2022.9839079.
- [Gauthier et al.(2020a)Gauthier, Gratton, Venkategowda, & Werner] Gauthier, F., Gratton, C., Venkategowda, N. K. D., & Werner, S. (2020a). Privacy-preserving distributed learning with nonsmooth objective functions. In M. B. Matthews (Ed.), 54th Asilomar Conference on Signals, Systems, and Computers, ACSCC 2020, Pacific Grove, CA, USA, November 1-4, 2020. IEEE, 42–46. URL https://doi.org/10.1109/IEEECONF51394.2020.9443287.

- [Gauthier et al. (2018a) Gauthier, Hassanshahi, & Jordan] Gauthier, F., Hassanshahi, B., & Jordan, A. (2018a). AFFOGATO: runtime detection of injection attacks for node.js. In J. Dolby, W. G. J. Halfond, & A. Mishra (Eds.), Companion Proceedings for the ISSTA/ECOOP 2018 Workshops, ISSTA 2018, Amsterdam, Netherlands, July 16-21, 2018. ACM, 94-99. URL https://doi.org/10.1145/3236454.3236502.
- [Gauthier et al.(2021b)Gauthier, Hassanshahi, Selwyn-Smith, Mai, Schlüter, & Williams] Gauthier, F., Hassanshahi, B., Selwyn-Smith, B., Mai, T. N., Schlüter, M., & Williams, M. (2021b). Backrest: A model-based feedback-driven greybox fuzzer for web applications. CoRR, abs/2108.08455. URL https://arxiv.org/abs/2108.08455.
- [Gauthier et al.(2022b)Gauthier, Hassanshahi, Selwyn-Smith, Mai, Schlüter, & Williams] Gauthier, F., Hassanshahi, B., Selwyn-Smith, B., Mai, T. N., Schlüter, M., & Williams, M. (2022b). Experience: Model-based, feedback-driven, greybox web fuzzing with backrest. In K. Ali & J. Vitek (Eds.), 36th European Conference on Object-Oriented Programming, ECOOP 2022, June 6-10, 2022, Berlin, Germany. Schloss Dagstuhl Leibniz-Zentrum für Informatik, vol. 222 of LIPIcs, 29:1–29:30. URL https://doi.org/10.4230/LIPIcs.ECOOP.2022.29.
- [Gauthier et al.(2020b)Gauthier, Jordan, Krishnan, Hassanshahi, Süß, Bae, & Lee] Gauthier, F., Jordan, A., Krishnan, P., Hassanshahi, B., Süß, J. G., Bae, S., & Lee, H. (2020b). Tradeoffs in managing risk and technical debt in industrial research labs: an experience report. In C. Izurieta, M. Galster, & M. Felderer (Eds.), TechDebt '20: International Conference on Technical Debt, Seoul, Republic of Korea, June 28-30, 2020. ACM, 98-102. URL https://doi.org/10.1145/3387906.3388623.
- [Gauthier et al.(2018b)Gauthier, Keynes, Allen, Corney, & Krishnan] Gauthier, F., Keynes, N., Allen, N., Corney, D., & Krishnan, P. (2018b). 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, 134. URL https://doi.org/10.1109/SecDev.2018.00030.
- [Gauthier et al.(2013)Gauthier, Lavoie, & Merlo] Gauthier, F., Lavoie, T., & Merlo, E. (2013). Uncovering access control weaknesses and flaws with security-discordant software clones. In C. N. P. Jr. (Ed.), Annual Computer Security Applications Conference, ACSAC '13, New Orleans, LA, USA, December 9-13, 2013. ACM, 209-218. URL https://doi.org/10.1145/2523649.2523650.
- [Gauthier et al.(2011)Gauthier, Letarte, Lavoie, & Merlo] Gauthier, F., Letarte, D., Lavoie, T., & Merlo, E. (2011). 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, Québec, Canada. IEEE, 44-51. URL https://doi.org/10.1109/PST.2011.5971962.
- [Gauthier & Merlo (2012a)] Gauthier, F. & Merlo, E. (2012a). 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, 44-53. URL https://doi.org/10.1109/SCAM.2012.19.
- [Gauthier & Merlo(2012b)] Gauthier, F. & Merlo, E. (2012b). 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, 247–256. URL https://doi.org/10.1109/WCRE.2012.34.
- [Gauthier & Merlo(2012c)] Gauthier, F. & Merlo, E. (2012c). Investigation of access control models with formal concept analysis: A case study. In T. Mens, A. Cleve, & R. Ferenc (Eds.), 16th European Conference on Software Maintenance and Reengineering, CSMR 2012, Szeged, Hungary, March 27-30, 2012. IEEE Computer Society, 397–402. URL https://doi.org/10.1109/CSMR.2012.50.
- [Gauthier & Merlo(2013)] Gauthier, F. & Merlo, E. (2013). Semantic smells and errors in access control models: a case study in PHP. In D. Notkin, B. H. C. Cheng, & K. Pohl (Eds.), 35th International

- Conference on Software Engineering, ICSE '13, San Francisco, CA, USA, May 18-26, 2013. IEEE Computer Society, 1169–1172. URL https://doi.org/10.1109/ICSE.2013.6606670.
- [Gauthier et al.(2014b)Gauthier, Merlo, Stroulia, & Turner] Gauthier, F., Merlo, E., Stroulia, E., & Turner, D. (2014b). 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, 506-510. URL https://doi.org/10.1109/ICSME.2014.83.
- [Han et al.(2015)Han, Mérineau, Gauthier, Merlo, Li, & Stroulia] Han, Z., Mérineau, M., Gauthier, F., Merlo, E., Li, X., & Stroulia, E. (2015). Evolutionary analysis of access control models: a formal concept analysis method. In J. Gould, M. Litoiu, & H. Lutfiyya (Eds.), Proceedings of 25th Annual International Conference on Computer Science and Software Engineering, CASCON 2015, Markham, Ontario, Canada, 2-4 November, 2015. IBM / ACM, 261–264. URL http://dl.acm.org/citation.cfm?id=2886489.
- [Jordan et al.(2018) Jordan, Gauthier, Hassanshahi, & Zhao] Jordan, A., Gauthier, F., Hassanshahi, B., & Zhao, D. (2018). SAFE-PDF: robust detection of javascript PDF malware using abstract interpretation. CoRR, abs/1810.12490. URL http://arxiv.org/abs/1810.12490.
- [Jordan et al.(2019)Jordan, Gauthier, Hassanshahi, & Zhao] Jordan, A., Gauthier, F., Hassanshahi, B., & Zhao, D. (2019). Unacceptable behavior: Robust PDF malware detection using abstract interpretation. In P. Mardziel & N. Vazou (Eds.), Proceedings of the 14th ACM SIGSAC Workshop on Programming Languages and Analysis for Security, CCS 2019, London, United Kingdom, November 11-15, 2019. ACM, 19-30. URL https://doi.org/10.1145/3338504.3357341.
- [Letarte et al.(2011)Letarte, Gauthier, & Merlo] Letarte, D., Gauthier, F., & Merlo, E. (2011). 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, 289–298. URL https://doi.org/10.1109/ICST.2011.36.
- [Letarte et al.(2012)Letarte, Gauthier, Merlo, Sutyanyong, & Zuzarte] Letarte, D., Gauthier, F., Merlo, E., Sutyanyong, N., & Zuzarte, C. (2012). Targeted genetic test SQL generation for the DB2 database. In E. Lo & F. Waas (Eds.), Proceedings of the Fifth International Workshop on Testing Database Systems, DBTest 2012, Scottsdale, AZ, USA, May 21, 2012. ACM, 5. URL https://doi.org/10.1145/2304510.2304517.
- [Nielsen et al.(2019)Nielsen, Hassanshahi, & Gauthier] Nielsen, B. B., Hassanshahi, B., & Gauthier, F. (2019). Nodest: feedback-driven static analysis of node.js applications. In M. Dumas, D. Pfahl, S. Apel, & A. Russo (Eds.), 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. ACM, 455-465. URL https://doi.org/10.1145/3338906.3338933.
- [Steinhauser & Gauthier(2016)] Steinhauser, A. & Gauthier, F. (2016). Jspchecker: Static detection of context-sensitive cross-site scripting flaws in legacy web applications. In T. C. Murray & D. Stefan (Eds.), Proceedings of the 2016 ACM Workshop on Programming Languages and Analysis for Security, PLAS@CCS 2016, Vienna, Austria, October 24, 2016. ACM, 57–68. URL https://doi.org/10.1145/2993600.2993606.
- [Vorobyov et al.(2022) Vorobyov, Gauthier, Bae, Krishnan, & O'Donoghue] Vorobyov, K., Gauthier, F., Bae, S., Krishnan, P., & O'Donoghue, R. (2022). Synthesis of java deserialisation filters from examples. In H. V. Leong, S. S. Sarvestani, Y. Teranishi, A. Cuzzocrea, H. Kashiwazaki, D. Towey, J. Yang, & H. Shahriar (Eds.), 46th IEEE Annual Computers, Software, and Applications Conferenc, COMPSAC 2022, Los Alamitos, CA, USA, June 27 July 1, 2022. IEEE, 736–745. URL https://doi.org/10.1109/COMPSAC54236.2022.00123.