

## Список литературы

- [Allen et al.(2021)Allen, Gauthier, and Jordan] N. Allen, F. Gauthier, and A. Jordan, “IFDS taint analysis with access paths,” *CoRR*, vol. abs/2103.16240, 2021. [Online]. Available: <https://arxiv.org/abs/2103.16240>
- [Amadini et al.(2017)Amadini, Jordan, Gange, Gauthier, Schachte, Søndergaard, Stuckey, and Zhang] R. Amadini, A. Jordan, G. Gange, F. Gauthier, P. Schachte, H. Søndergaard, P. J. Stuckey, and C. Zhang, “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*, ser. Lecture Notes in Computer Science, A. Legay and T. Margaria, Eds., vol. 10205, 2017, pp. 41–57. [Online]. Available: [https://doi.org/10.1007/978-3-662-54577-5\\_3](https://doi.org/10.1007/978-3-662-54577-5_3)
- [Amadini et al.(2018)Amadini, Gange, Gauthier, Jordan, Schachte, Søndergaard, Stuckey, and Zhang] R. Amadini, G. Gange, F. Gauthier, A. Jordan, P. Schachte, H. Søndergaard, P. J. Stuckey, and C. Zhang, “Reference abstract domains and applications to string analysis,” *Fundam. Informaticae*, vol. 158, no. 4, pp. 297–326, 2018. [Online]. Available: <https://doi.org/10.3233/FI-2018-1650>
- [Brent et al.(2018)Brent, Jurisevic, Kong, Liu, Gauthier, Gramoli, Holz, and Scholz] L. Brent, A. Jurisevic, M. Kong, E. Liu, F. Gauthier, V. Gramoli, R. Holz, and B. Scholz, “Vandal: A scalable security analysis framework for smart contracts,” *CoRR*, vol. abs/1809.03981, 2018. [Online]. Available: <http://arxiv.org/abs/1809.03981>
- [Dietrich et al.(2018)Dietrich, Gauthier, and Krishnan] J. Dietrich, F. Gauthier, and P. Krishnan, “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. [Online]. Available: <https://doi.org/10.1109/ASWEC.2018.00024>
- [Gauthier and Bae(2022a)] F. Gauthier and S. Bae, “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. [Online]. Available: <https://doi.org/10.1109/ICSE-NIER55298.2022.9793530>
- [Gauthier and Bae(2022b)] —, “Runtime prevention of deserialization attacks,” *CoRR*, vol. abs/2204.09388, 2022. [Online]. Available: <https://doi.org/10.48550/arXiv.2204.09388>
- [Gauthier and Merlo(2012a)] F. Gauthier and E. Merlo, “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*, T. Mens, A. Cleve, and R. Ferenc, Eds. IEEE Computer Society, 2012, pp. 397–402. [Online]. Available: <https://doi.org/10.1109/CSMR.2012.50>
- [Gauthier and Merlo(2013)] —, “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*, D. Notkin, B. H. C. Cheng, and K. Pohl, Eds. IEEE Computer Society, 2013, pp. 1169–1172. [Online]. Available: <https://doi.org/10.1109/ICSE.2013.6606670>
- [Gauthier and Merlo(2012b)] —, “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. [Online]. Available: <https://doi.org/10.1109/SCAM.2012.19>
- [Gauthier and Merlo(2012c)] —, “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. [Online]. Available: <https://doi.org/10.1109/WCRE.2012.34>

- [Gauthier et al.(2011)Gauthier, Letarte, Lavoie, and Merlo] F. Gauthier, D. Letarte, T. Lavoie, and E. Merlo, “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, 2011, pp. 44–51. [Online]. Available: <https://doi.org/10.1109/PST.2011.5971962>
- [Gauthier et al.(2012)Gauthier, Gélinas, and Marcotte] F. Gauthier, D. Gélinas, and P. Marcotte, “Vibration of portable orbital sanders and its impact on the development of work-related musculoskeletal disorders in the furniture industry,” *Comput. Ind. Eng.*, vol. 62, no. 3, pp. 762–769, 2012. [Online]. Available: <https://doi.org/10.1016/j.cie.2011.11.035>
- [Gauthier et al.(2013)Gauthier, Lavoie, and Merlo] F. Gauthier, T. Lavoie, and E. Merlo, “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*, C. N. P. Jr., Ed. ACM, 2013, pp. 209–218. [Online]. Available: <https://doi.org/10.1145/2523649.2523650>
- [Gauthier et al.(2014a)Gauthier, Abdul-Nour, and Lagacé] F. Gauthier, G. Abdul-Nour, and D. Lagacé, “Special issue: IE in healthcare,” *Comput. Ind. Eng.*, vol. 78, p. 234, 2014. [Online]. Available: <https://doi.org/10.1016/j.cie.2014.09.018>
- [Gauthier et al.(2014b)Gauthier, Merlo, Stroulia, and Turner] F. Gauthier, E. Merlo, E. Stroulia, and D. Turner, “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. [Online]. Available: <https://doi.org/10.1109/ICSME.2014.83>
- [Gauthier et al.(2018a)Gauthier, Hassanshahi, and Jordan] F. Gauthier, B. Hassanshahi, and A. Jordan, “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*, J. Dolby, W. G. J. Halfond, and A. Mishra, Eds. ACM, 2018, pp. 94–99. [Online]. Available: <https://doi.org/10.1145/3236454.3236502>
- [Gauthier et al.(2018b)Gauthier, Keynes, Allen, Corney, and Krishnan] F. Gauthier, N. Keynes, N. Allen, D. Corney, and P. Krishnan, “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. [Online]. Available: <https://doi.org/10.1109/SecDev.2018.00030>
- [Gauthier et al.(2020a)Gauthier, Gratton, Venkategowda, and Werner] F. Gauthier, C. Gratton, N. K. D. Venkategowda, and S. Werner, “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*, M. B. Matthews, Ed. IEEE, 2020, pp. 42–46. [Online]. Available: <https://doi.org/10.1109/IEEECONF51394.2020.9443287>
- [Gauthier et al.(2020b)Gauthier, Jordan, Krishnan, Hassanshahi, Süß, Bae, and Lee] F. Gauthier, A. Jordan, P. Krishnan, B. Hassanshahi, J. G. Süß, S. Bae, and H. Lee, “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*, C. Izurieta, M. Galster, and M. Felderer, Eds. ACM, 2020, pp. 98–102. [Online]. Available: <https://doi.org/10.1145/3387906.3388623>
- [Gauthier et al.(2021b)Gauthier, Gogineni, Werner, Huang, and Kuh] F. Gauthier, V. C. Gogineni, S. Werner, Y. Huang, and A. Kuh, “Resource-aware asynchronous online federated learning for nonlinear regression,” *CoRR*, vol. abs/2111.13931, 2021. [Online]. Available: <https://arxiv.org/abs/2111.13931>
- [Gauthier et al.(2021a)Gauthier, Hassanshahi, Selwyn-Smith, Mai, Schlüter, and Williams] F. Gauthier, B. Hassanshahi, B. Selwyn-Smith, T. N. Mai, M. Schlüter, and M. Williams, “Backrest: A model-based feedback-driven greybox fuzzer for web applications,” *CoRR*, vol. abs/2108.08455, 2021. [Online]. Available: <https://arxiv.org/abs/2108.08455>

- [Gauthier et al.(2022b)Gauthier, Gogineni, Werner, Huang, and Kuh] F. Gauthier, V. C. Gogineni, S. Werner, Y. Huang, and A. Kuh, “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. [Online]. Available: <https://doi.org/10.1109/ICC45855.2022.9839079>
- [Gauthier et al.(2022a)Gauthier, Hassanshahi, Selwyn-Smith, Mai, Schlüter, and Williams] F. Gauthier, B. Hassanshahi, B. Selwyn-Smith, T. N. Mai, M. Schlüter, and M. Williams, “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*, ser. LIPIcs, K. Ali and J. Vitek, Eds., vol. 222. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022, pp. 29:1–29:30. [Online]. Available: <https://doi.org/10.4230/LIPIcs.ECOOP.2022.29>
- [Han et al.(2015)Han, Mélineau, Gauthier, Merlo, Li, and Stroulia] Z. Han, M. Mélineau, F. Gauthier, E. Merlo, X. Li, and E. Stroulia, “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*, J. Gould, M. Litoiu, and H. Lutfiyya, Eds. IBM / ACM, 2015, pp. 261–264. [Online]. Available: <http://dl.acm.org/citation.cfm?id=2886489>
- [Jordan et al.(2018)Jordan, Gauthier, Hassanshahi, and Zhao] A. Jordan, F. Gauthier, B. Hassanshahi, and D. Zhao, “SAFE-PDF: robust detection of javascript PDF malware using abstract interpretation,” *CoRR*, vol. abs/1810.12490, 2018. [Online]. Available: <http://arxiv.org/abs/1810.12490>
- [Jordan et al.(2019)Jordan, Gauthier, Hassanshahi, and Zhao] —, “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*, P. Mardziel and N. Vazou, Eds. ACM, 2019, pp. 19–30. [Online]. Available: <https://doi.org/10.1145/3338504.3357341>
- [Letarte et al.(2011)Letarte, Gauthier, and Merlo] D. Letarte, F. Gauthier, and E. Merlo, “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. [Online]. Available: <https://doi.org/10.1109/ICST.2011.36>
- [Letarte et al.(2012)Letarte, Gauthier, Merlo, Sutanyong, and Zuzarte] D. Letarte, F. Gauthier, E. Merlo, N. Sutanyong, and C. Zuzarte, “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*, E. Lo and F. Waas, Eds. ACM, 2012, p. 5. [Online]. Available: <https://doi.org/10.1145/2304510.2304517>
- [Nielsen et al.(2019)Nielsen, Hassanshahi, and Gauthier] B. B. Nielsen, B. Hassanshahi, and F. Gauthier, “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*, M. Dumas, D. Pfahl, S. Apel, and A. Russo, Eds. ACM, 2019, pp. 455–465. [Online]. Available: <https://doi.org/10.1145/3338906.3338933>
- [Steinhauser and Gauthier(2016)] A. Steinhauser and F. Gauthier, “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*, T. C. Murray and D. Stefan, Eds. ACM, 2016, pp. 57–68. [Online]. Available: <https://doi.org/10.1145/2993600.2993606>
- [Vorobyov et al.(2022)Vorobyov, Gauthier, Bae, Krishnan, and O’Donoghue] K. Vorobyov, F. Gauthier, S. Bae, P. Krishnan, and R. O’Donoghue, “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*, H. V. Leong, S. S. Sarvestani,

Y. Teranishi, A. Cuzzocrea, H. Kashiwazaki, D. Towey, J. Yang, and H. Shahriar, Eds. IEEE, 2022, pp. 736–745. [Online]. Available: <https://doi.org/10.1109/COMPSAC54236.2022.00123>