

## Список литературы

- [1] 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.), pp. 736–745, IEEE, 2022.
- [2] 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* (K. Ali and J. Vitek, eds.), vol. 222 of *LIPICs*, pp. 29:1–29:30, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022.
- [3] 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*, pp. 2828–2833, IEEE, 2022.
- [4] 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*, pp. 71–75, IEEE, 2022.
- [5] F. Gauthier and S. Bae, *Runtime prevention of deserialization attacks*, *CoRR* **abs/2204.09388** (2022) [[2204.09388](#)].
- [6] N. Allen, F. Gauthier and A. Jordan, *IFDS taint analysis with access paths*, *CoRR* **abs/2103.16240** (2021) [[2103.16240](#)].
- [7] 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* **abs/2108.08455** (2021) [[2108.08455](#)].
- [8] F. Gauthier, V. C. Gogineni, S. Werner, Y. Huang and A. Kuh, *Resource-aware asynchronous online federated learning for nonlinear regression*, *CoRR* **abs/2111.13931** (2021) [[2111.13931](#)].
- [9] F. Gauthier, C. Gratton, N. K. D. Venkatesgowda 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.), pp. 42–46, IEEE, 2020.
- [10] 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.), pp. 98–102, ACM, 2020.
- [11] A. Jordan, F. Gauthier, B. Hassanshahi and D. 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.), pp. 19–30, ACM, 2019.
- [12] 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.), pp. 455–465, ACM, 2019.
- [13] 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* **158** (2018), no. 4 297–326.

- [14] 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*, pp. 121–125, IEEE Computer Society, 2018.
- [15] 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.), pp. 94–99, ACM, 2018.
- [16] 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*, p. 134, IEEE Computer Society, 2018.
- [17] 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* **abs/1809.03981** (2018) [[1809.03981](#)].
- [18] A. Jordan, F. Gauthier, B. Hassanshahi and D. Zhao, *SAFE-PDF: robust detection of javascript PDF malware using abstract interpretation*, *CoRR* **abs/1810.12490** (2018) [[1810.12490](#)].
- [19] 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* (A. Legay and T. Margaria, eds.), vol. 10205 of *Lecture Notes in Computer Science*, pp. 41–57, 2017.
- [20] 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.), pp. 57–68, ACM, 2016.
- [21] 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.), pp. 261–264, IBM / ACM, 2015.
- [22] F. Gauthier, G. Abdul-Nour and D. Lagacé, *Special issue: IE in healthcare*, *Comput. Ind. Eng.* **78** (2014) 234.
- [23] 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*, pp. 506–510, IEEE Computer Society, 2014.
- [24] 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.), pp. 209–218, ACM, 2013.
- [25] F. Gauthier and E. Merlo, *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.), pp. 1169–1172, IEEE Computer Society, 2013.
- [26] 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.* **62** (2012), no. 3 762–769.

- [27] 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.), pp. 397–402, IEEE Computer Society, 2012.
- [28] F. Gauthier and E. Merlo, *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*, pp. 44–53, IEEE Computer Society, 2012.
- [29] 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.), p. 5, ACM, 2012.
- [30] F. Gauthier and E. Merlo, *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*, pp. 247–256, IEEE Computer Society, 2012.
- [31] 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*, pp. 289–298, IEEE Computer Society, 2011.
- [32] 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*, pp. 44–51, IEEE, 2011.