

Список литературы

- [] Kostyantyn Vorobyov, François Gauthier, Sora Bae, Padmanabhan Krishnan, and Rebecca O'Donoghue. Synthesis of java deserialisation filters from examples. In Hong Va Leong, Sahra Sedigh Sarvestani, Yuuichi Teranishi, Alfredo Cuzzocrea, Hiroki Kashiwazaki, Dave Towey, Ji-Jiang Yang, and Hossain Shahriar, editors, *46th IEEE Annual Computers, Software, and Applications Conferenc, COMPSAC 2022, Los Alamitos, CA, USA, June 27 - July 1, 2022*, pages 736–745. IEEE, 2022.
- [] François Gauthier, Behnaz Hassanshahi, Benjamin Selwyn-Smith, Trong Nhan Mai, Max Schlüter, and Micah Williams. Experience: Model-based, feedback-driven, greybox web fuzzing with backrest. In Karim Ali and Jan Vitek, editors, *36th European Conference on Object-Oriented Programming, ECOOP 2022, June 6-10, 2022, Berlin, Germany*, volume 222 of *LIPIcs*, pages 29:1–29:30. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022.
- [] François Gauthier, Vinay Chakravarthi Gogineni, Stefan Werner, Yih-Fang Huang, and Anthony Kuh. Resource-aware asynchronous online federated learning for nonlinear regression. In *IEEE International Conference on Communications, ICC 2022, Seoul, Korea, May 16-20, 2022*, pages 2828–2833. IEEE, 2022.
- [] François Gauthier and Sora 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*, pages 71–75. IEEE, 2022.
- [] François Gauthier and Sora Bae. Runtime prevention of deserialization attacks. *CoRR*, abs/2204.09388, 2022.
- [] Nicholas Allen, François Gauthier, and Alexander Jordan. IFDS taint analysis with access paths. *CoRR*, abs/2103.16240, 2021.
- [] François Gauthier, Behnaz Hassanshahi, Benjamin Selwyn-Smith, Trong Nhan Mai, Max Schlüter, and Micah Williams. Backrest: A model-based feedback-driven greybox fuzzer for web applications. *CoRR*, abs/2108.08455, 2021.
- [] François Gauthier, Vinay Chakravarthi Gogineni, Stefan Werner, Yih-Fang Huang, and Anthony Kuh. Resource-aware asynchronous online federated learning for nonlinear regression. *CoRR*, abs/2111.13931, 2021.
- [] François Gauthier, Cristiano Gratton, Naveen K. D. Venkatesgowda, and Stefan Werner. Privacy-preserving distributed learning with nonsmooth objective functions. In Michael B. Matthews, editor, *54th Asilomar Conference on Signals, Systems, and Computers, ACSCC 2020, Pacific Grove, CA, USA, November 1-4, 2020*, pages 42–46. IEEE, 2020.
- [] François Gauthier, Alexander Jordan, Padmanabhan Krishnan, Behnaz Hassanshahi, Jörn Guy Süß, Sora Bae, and Hyunjun Lee. Trade-offs in managing risk and technical debt in industrial research labs: an experience report. In Clemente Izurieta, Matthias Galster, and Michael Felderer, editors, *TechDebt '20: International Conference on Technical Debt, Seoul, Republic of Korea, June 28-30, 2020*, pages 98–102. ACM, 2020.
- [] Alexander Jordan, François Gauthier, Behnaz Hassanshahi, and David Zhao. Unacceptable behavior: Robust PDF malware detection using abstract interpretation. In Piotr Mardziel and Niki Vazou, editors, *Proceedings of the 14th ACM SIGSAC Workshop on Programming Languages and Analysis for Security, CCS 2019, London, United Kingdom, November 11-15, 2019*, pages 19–30. ACM, 2019.
- [] Benjamin Barslev Nielsen, Behnaz Hassanshahi, and François Gauthier. Nodest: feedback-driven static analysis of node.js applications. In Marlon Dumas, Dietmar Pfahl, Sven Apel, and Alessandra Russo, editors, *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*, pages 455–465. ACM, 2019.

- [] Roberto Amadini, Graeme Gange, François Gauthier, Alexander Jordan, Peter Schachte, Harald Søndergaard, Peter J. Stuckey, and Chenyi Zhang. Reference abstract domains and applications to string analysis. *Fundam. Informaticae*, 158(4):297–326, 2018.
- [] Jens Dietrich, François Gauthier, and Padmanabhan Krishnan. Driver generation for java EE web applications. In *25th Australasian Software Engineering Conference, ASWEC 2018, Adelaide, Australia, November 26-30, 2018*, pages 121–125. IEEE Computer Society, 2018.
- [] François Gauthier, Behnaz Hassanshahi, and Alexander Jordan. AFFOGATO: runtime detection of injection attacks for node.js. In Julian Dolby, William G. J. Halfond, and Ashish Mishra, editors, *Companion Proceedings for the ISSTA/ECOOP 2018 Workshops, ISSTA 2018, Amsterdam, Netherlands, July 16-21, 2018*, pages 94–99. ACM, 2018.
- [] François Gauthier, Nathan Keynes, Nicholas Allen, Diane Corney, and Padmanabhan 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*, page 134. IEEE Computer Society, 2018.
- [] Lexi Brent, Anton Jurisevic, Michael Kong, Eric Liu, François Gauthier, Vincent Gramoli, Ralph Holz, and Bernhard Scholz. Vandal: A scalable security analysis framework for smart contracts. *CoRR*, abs/1809.03981, 2018.
- [] Alexander Jordan, François Gauthier, Behnaz Hassanshahi, and David Zhao. SAFE-PDF: robust detection of javascript PDF malware using abstract interpretation. *CoRR*, abs/1810.12490, 2018.
- [] Roberto Amadini, Alexander Jordan, Graeme Gange, François Gauthier, Peter Schachte, Harald Søndergaard, Peter J. Stuckey, and Chenyi Zhang. Combining string abstract domains for javascript analysis: An evaluation. In Axel Legay and Tiziana Margaria, editors, *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*, volume 10205 of *Lecture Notes in Computer Science*, pages 41–57, 2017.
- [] Antonín Steinhauser and François Gauthier. Jspchecker: Static detection of context-sensitive cross-site scripting flaws in legacy web applications. In Toby C. Murray and Deian Stefan, editors, *Proceedings of the 2016 ACM Workshop on Programming Languages and Analysis for Security, PLAS@CCS 2016, Vienna, Austria, October 24, 2016*, pages 57–68. ACM, 2016.
- [] Zhuobing Han, Mathieu Mérineau, François Gauthier, Ettore Merlo, Xiaohong Li, and Eleni Stroulia. Evolutionary analysis of access control models: a formal concept analysis method. In Jordan Gould, Marin Litoiu, and Hanan Lutfiyya, editors, *Proceedings of 25th Annual International Conference on Computer Science and Software Engineering, CASCON 2015, Markham, Ontario, Canada, 2-4 November, 2015*, pages 261–264. IBM / ACM, 2015.
- [] François Gauthier, Georges Abdul-Nour, and Denis Lagacé. Special issue: IE in healthcare. *Comput. Ind. Eng.*, 78:234, 2014.
- [] François Gauthier, Ettore Merlo, Eleni Stroulia, and David 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*, pages 506–510. IEEE Computer Society, 2014.
- [] François Gauthier, Thierry Lavoie, and Ettore Merlo. Uncovering access control weaknesses and flaws with security-discordant software clones. In Charles N. Payne Jr., editor, *Annual Computer Security Applications Conference, ACSAC '13, New Orleans, LA, USA, December 9-13, 2013*, pages 209–218. ACM, 2013.
- [] François Gauthier and Ettore Merlo. Semantic smells and errors in access control models: a case study in PHP. In David Notkin, Betty H. C. Cheng, and Klaus Pohl, editors, *35th International Conference on Software Engineering, ICSE '13, San Francisco, CA, USA, May 18-26, 2013*, pages 1169–1172. IEEE Computer Society, 2013.

- [] François Gauthier, Dominique Gélinas, and Pierre 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(3):762–769, 2012.
- [] François Gauthier and Ettore Merlo. Investigation of access control models with formal concept analysis: A case study. In Tom Mens, Anthony Cleve, and Rudolf Ferenc, editors, *16th European Conference on Software Maintenance and Reengineering, CSMR 2012, Szeged, Hungary, March 27-30, 2012*, pages 397–402. IEEE Computer Society, 2012.
- [] François Gauthier and Ettore 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*, pages 44–53. IEEE Computer Society, 2012.
- [] Dominic Letarte, François Gauthier, Ettore Merlo, Nattavut Sutanyong, and Calisto Zuzarte. Targeted genetic test SQL generation for the DB2 database. In Eric Lo and Florian Waas, editors, *Proceedings of the Fifth International Workshop on Testing Database Systems, DBTest 2012, Scottsdale, AZ, USA, May 21, 2012*, page 5. ACM, 2012.
- [] François Gauthier and Ettore 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*, pages 247–256. IEEE Computer Society, 2012.
- [] Dominic Letarte, François Gauthier, and Ettore 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*, pages 289–298. IEEE Computer Society, 2011.
- [] François Gauthier, Dominic Letarte, Thierry Lavoie, and Ettore 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*, pages 44–51. IEEE, 2011.