











### References

- [1] Z. Huang, M. D'Angelo, D. Miyani, and D. Lie, "Talos: Neutralizing Vulnerabilities with Security Workarounds for Rapid Response," in *Proceedings of the 2016 IEEE Symposium on Security and Privacy*, pp. 618–635.
- [2] Z. Huang, D. Lie, G. Tan, and T. Jaeger, "Using Safety Properties to Generate Vulnerability Patches," in *Proceedings of the 2019 IEEE Symposium on Security and Privacy*, pp. 539–554.
- [3] Z. Lin, X. Jiang, D. Xu, B. Mao, and L. Xie, "AutoPaG: Towards Automated Software Patch Generation with Source Code Root Cause Identification and Repair," in *Proceedings of the 2nd ACM Symposium on Information, Computer and Communications Security (ASIACCS '07)*, pp. 329–340.
- [4] S. Mechtaev, J. Yi, and A. Roychoudhury, "Angelix: Scalable Multiline Program Patch Synthesis via Symbolic Analysis," in *Proceedings of the 38th International Conference on Software Engineering (ICSE '16)*, pp. 691–701.
- [5] S. Nagarakatte, J. Zhao, M. M. K. Martin, and S. Zdancewic, "Softbound: Highly Compatible and Complete Spatial Memory Safety for C," in *Proceedings of the 30th ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI '09)*, pp. 245–258.
- [6] H. D. T. Nguyen, D. Qi, A. Roychoudhury, and S. Chandra, "SemFix: Program Repair via Semantic Analysis," in *Proceedings of the 2013 International Conference on Software Engineering (ICSE '13)*, pp. 772–781.
- [7] J. H. Perkins, S. Kim, S. Larsen, S. Amarasinghe, J. Bachrach, M. Carbin, C. Pacheco, F. Sherwood, S. Sidiroglou, G. Sullivan, W.F. Wong, Y. Zibin, M. D. Ernst, and M. Rinard, "Automatically Patching Errors in Deployed Software," in *Proceedings of the 22nd ACM Symposium on Operating Systems Principles (SOSP '09)*, pp. 87–102.
- [8] Z. Qi, F. Long, S. Achour, and M. Rinard, "An Analysis of Patch Plausibility and Correctness for Generate-and-Validate Patch Generation Systems," in *Proceedings of the 2015 International Symposium on Software Testing and Analysis (ISSTA 2015)*, pp. 24–36.