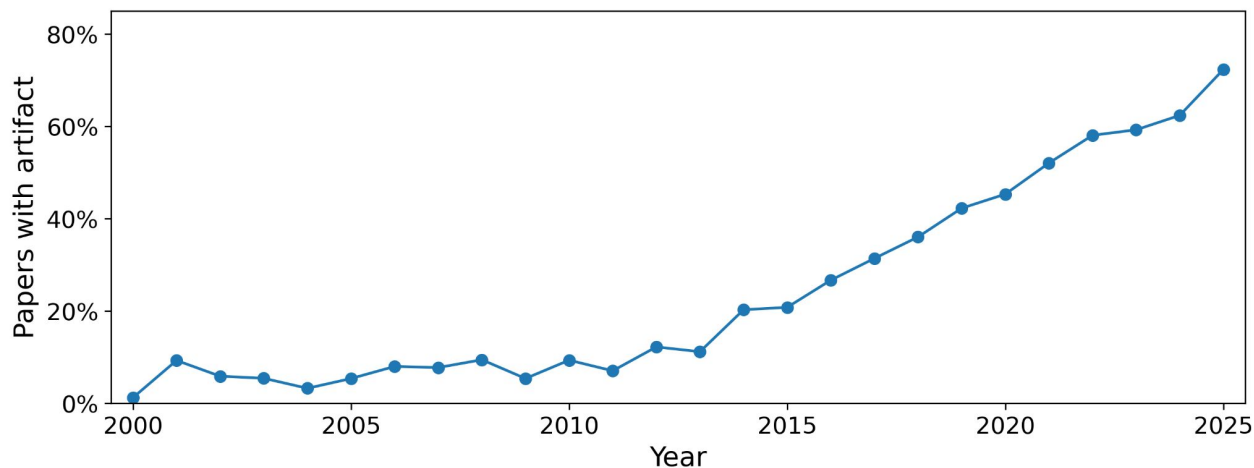


Not All Those Who Share Are Lost: Analyzing 25 Years of Cybersecurity Artifact Sharing Practices Through Automated Discovery

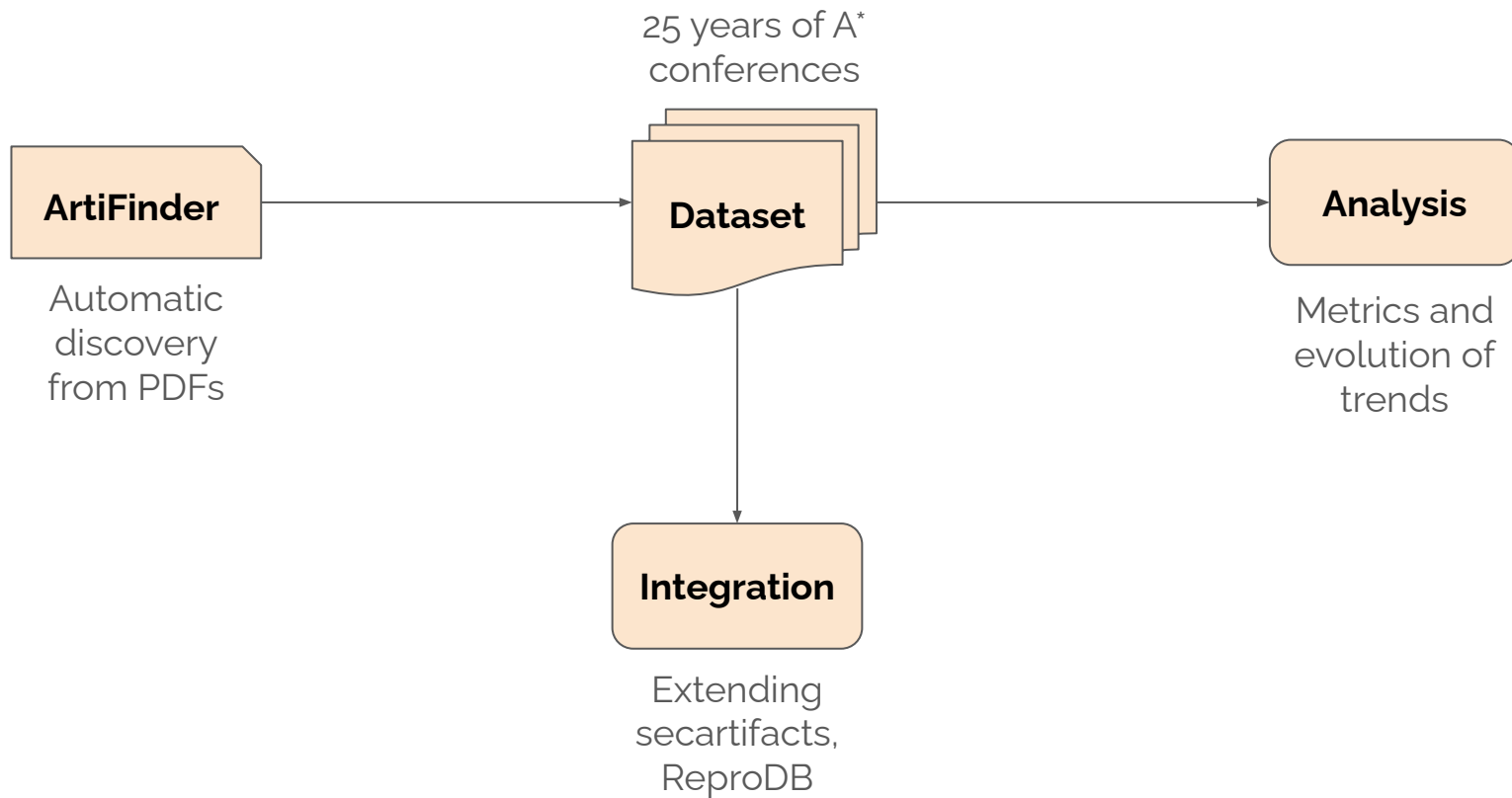
Daan Vansteenhuyse, Arthur Bols, Lieven Desmet, Victor Le Pochat, Jo Van Bulck, Marton Bogнар

Investigating artifact sharing practices

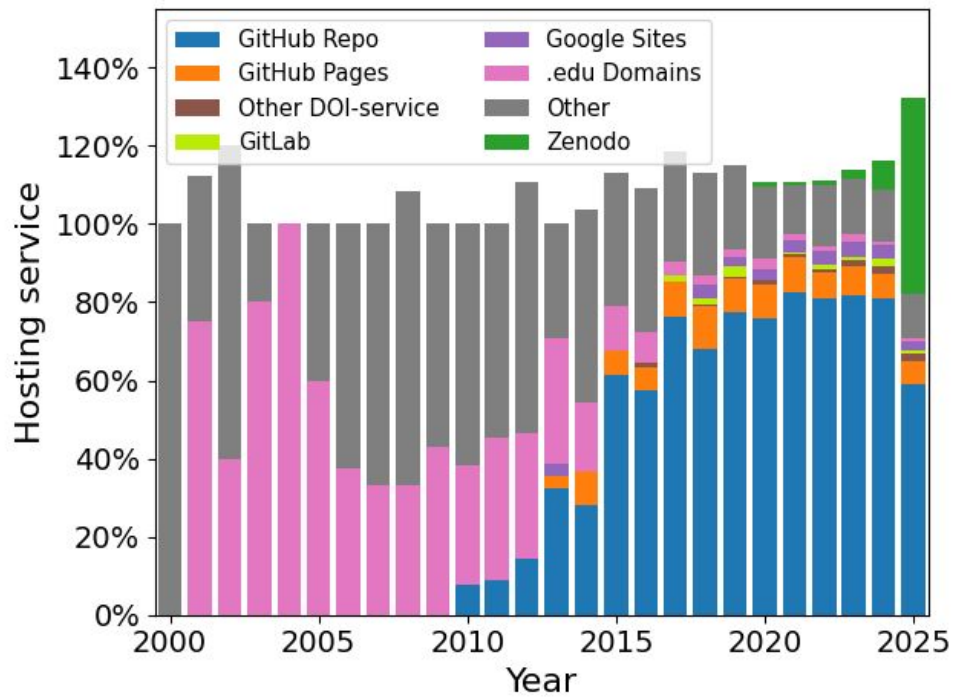
- Lack of sharing impedes scientific progress
- Formulate recommendations for authors and AEC
- Existing datasets are limited to evaluated artifacts (e.g., secartifacts)
- Previous work manually analysed papers, non scalable



Contributions

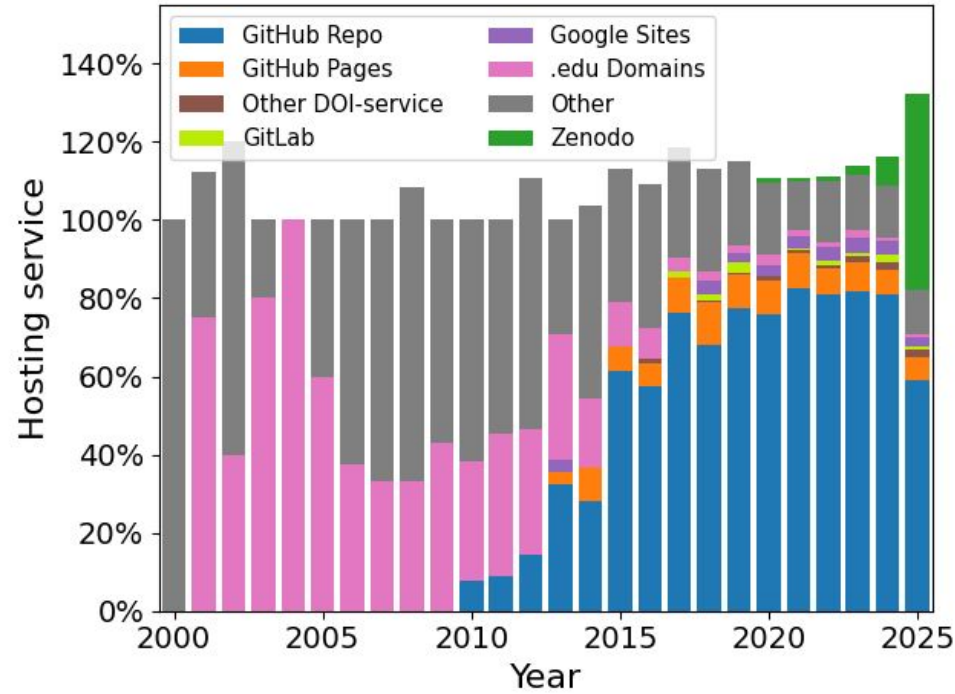


Analysis - Where are artifacts stored?



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- GitHub most popular
- Stable hosting services, such as Zenodo increase in popularity
- Some papers release multiple artifacts on different platforms



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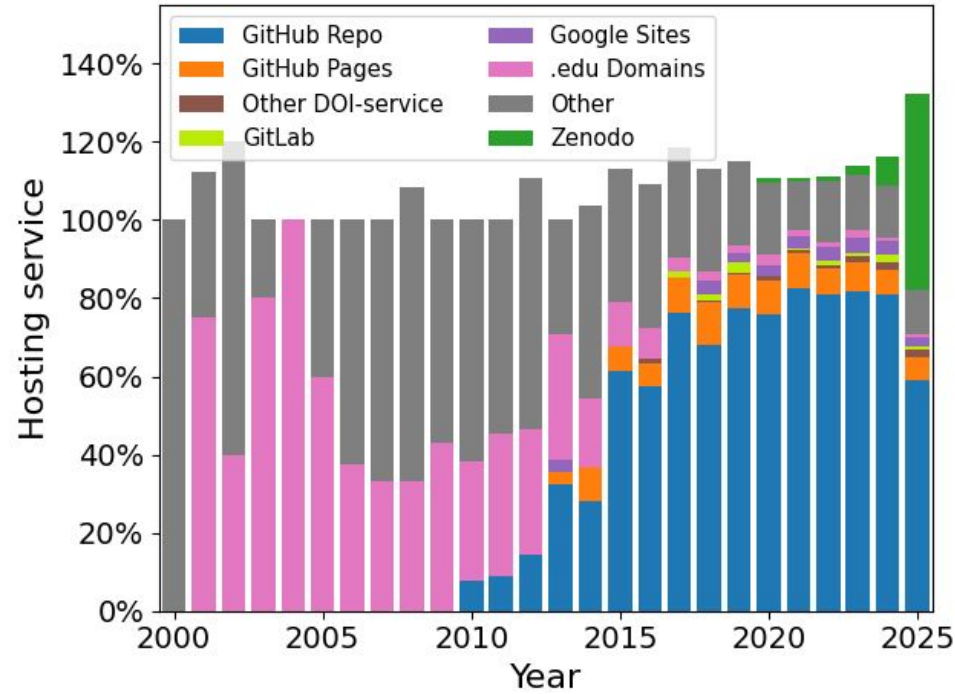
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Continuous
Development

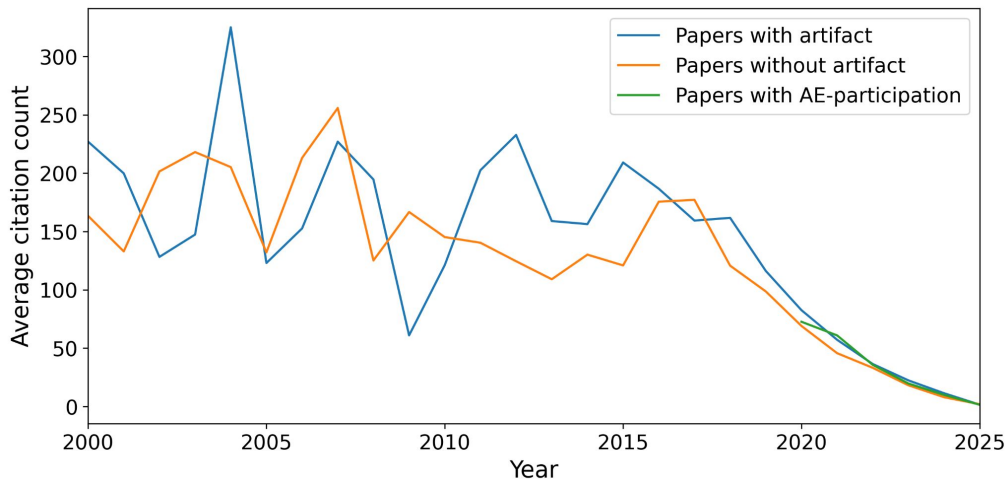


Stable
Reproducible



Analysis - more!

- Long-term availability of artifacts is increasing
- Correlation with paper topic (fuzzing & microarchitectural 🏆)
- Comparison with popularity metrics



Summary

- Investigated sharing practices over 25 years
- **ArtiFinder** enables visibility for research artifacts
- Open-source, invite other fields to conduct studies
- Integrated in secartifacts, open to manual corrections

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