CMPUT 402/501

List of related research papers

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This is a list of research papers on topics related to software quality. You can use these papers as inspiration for your course project or as examples of how a research paper looks like.

- 1. <u>The Seven Sins: Security Smells in Infrastructure as Code Scripts</u>, Rahman et al., ICSE '19.
- 2. <u>BugSwarm: Mining and Continuously Growing a Dataset of Reproducible Failures and Fixes</u>, Dmeiri et al., ICSE '19. -- paper should be available on the website under publications soon. You can also directly contact the authors if it doesn't get posted soon.
- 3. Mining Historical Test Logs to Predict Bugs and Localize Faults in the Test Logs, Amar and Rigby, ICSE '19. -- preprint should be available soon. You can also directly contact the authors for a version.
- 4. <u>A Large-Scale Study of Test Coverage Evolution</u>, Hilton et al., ASE '18.
- 5. <u>An Automated Approach to Estimating Code Coverage Measures Using Execution Logs,</u> Chen et al., ASE '18.
- 6. One Size Does Not Fit All: An Empirical Study of Containerized Continuous Deployment Workflows, Zhang et al., FSE '18.
- 7. Modern Release Engineering in a Nutshel -- Why Researchers Should Care, Adams and McIntosh, SANER '16.
- 8. The Art of Testing Less without Sacrificing Quality, Herzig et al., ICSE '15.
- 9. Predicting Bugs from History, Zimmermann et al.
- An Empirical Study on the Effect of Modern Code Review Practices on Software Quality,
  Adams and McIntosh, ESE '16.
- 11. Are Refactorings to Blame? An Empirical Study of Refactorings in Merge Conflicts,

Mahmoudi and Nadi, SANER '19.

- 12. Automatic Identification of Bug-Introducing Changes, Kim et al., ASE '06.
- 13. Mining Metrics to Predict Component Failures, Nagappan et al., ICSE '06.
- 14. Forked and integrated variants in an open-source firmware project, Stănciulescu et al., ICSME '15.
- 15. Software Practitioners View on Merge, McKee et al., ICSME '17.
- 16. Why We Refactor? Confessions of GitHub Contributors, Silva et al., FSE '16.
- 17. Mining API patterns as partial orders from source code: from usage scenarios to specifications, Acharya et al., FSE '07.
- 18. API Change and Fault Proneness: A Threat to the Success of Android Apps, Linares-Vásquez et al., FSE '13.
- 19. Security Versus Performance Bugs: A Case Study on Firefox, Zaman et al., MSR '11.
- 20. <u>Mining Analogical Libraries in Q&A Discussions -- Incorporating Relational and Categorical Knowledge into Word Embedding</u>, Chen et al., SANER '16.
- 21. <u>Learning from Examples to Improve Code Completion Systems</u>, Bruch et al., FSE '09.
- 22. <u>Categorizing the Content of GitHub README Files</u>. G. A. A. Prana, C. Treude, F. Thung, T. Atapattu, and D. Lo. Empirical Software Engineering, 2018.
- Adding sparkle to social coding: an empirical study of repository badges in the npm ecosystem. Trockman et al., ICSE '18
- 24. <u>Detecting Missing Information in Bug Descriptions</u>, Chaparro et al., FSE '17.
- 25. Coverage is not strongly correlated with test suite effectiveness, ICSE '14
- 26. Are Mutants a Valid Substitute for Real Faults in Software Testing?, FSE '14
- 27. Configuration Smells in Continuous Delivery Pipelines: A Linter and A Six-Month Study on GitLab, FSE '20
- 28. Detecting Numerical Bugs in Neural Network Architectures, FSE '20
- 29. FrUITeR: A Framework for Evaluating UI Test Reuse, FSE '20