

Bilal Malik

Clyde Rempillo

Mohammad Farhat

Hasan Malik

February 3, 2020

COMP-4110 Step 3 Reading List on Unit Testing

Unit Testing, Module Testing, Java, SQL, Testing on Database programs, Testing in Cloud, Black Box, Test Cases, Performance Evaluation, Unit testing, Java

- [1] A. Fuchs and H. Kuchen, “Unit Testing of Database-Driven Java Enterprise Edition Applications,” *SpringerLink*, 19-Jul-2017. [Online]. Available: https://link.springer.com/chapter/10.1007/978-3-319-61467-0_4. [Accessed: 04-Feb-2020].

- [2] A. Gambi, S. Kappler, J. Lampel, and A. Zeller, “CUT: automatic unit testing in the cloud,” *CUT: automatic unit testing in the cloud / Proceedings of the 26th ACM SIGSOFT International Symposium on Software Testing and Analysis*, 01-Jul-2017. [Online]. Available: <https://dl.acm.org/doi/10.1145/3092703.3098222>. [Accessed: 03-Feb-2020].

- [3] Bulej, L., Bureš, T., Horký, V. *et al.* Unit testing performance with Stochastic Performance Logic. *Autom Softw Eng* **24**, 139–187 (2017). <https://doi.org/10.1007/s10515-015-0188-0> [Accessed: 04-Feb-2020].

- [4] C.K. Chang, N.W. Lin. “A Constraint-Based Framework for Test Case Generation in Method-Level Black-Box Unit Testing”. *Journal of Information Science and Engineering*. 2016. [Online]. Available: https://www.iis.sinica.edu.tw/page/jise/2016/201603_07.pdf . [Accessed: 04-Feb-2020].

- [5] G.P Sarma, T.W Jacobs, M.D. Watts, S.V. Ghayoomie, S.D. Larson, R.C. Gerkin. “Unit testing, model validation, and biological simulation”, *F1000Research*, 2016. [Online]. Available: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5007758/> [Accessed: 04-Feb-2020].

- [6] S. Misra, A. Adewumi, R. Maskeliūnas, R. Damaševičius, F. Cafer. (2018) Unit Testing in Global Software Development Environment. In: Panda B., Sharma S., Roy N. (eds) *Data Science and Analytics. REDSET 2017. Communications in Computer and Information Science*, vol 799. Springer, Singapore. Available: https://doi.org/10.1007/978-981-10-8527-7_25 [Accessed: 04-Feb-2020].

- [7] M. Badri, F. Toure, L. Lamontagne. “Predicting Unit Testing Effort Levels of Classes: An Exploratory Study based on Multinomial Logistic Regression Modelling”, *Procedia Computer Science*, 2015. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1877050915026630> [Accessed: 04-Feb-2020].

- [8] M. Marcozzi, W. Vanhoof, J. Hainaut. (2015, July). Relational symbolic execution of SQL code for unit testing of database programs. *ScienceDirect*. [Online]. 105. Pp. 44-72. Available: <https://www.sciencedirect.com/science/article/pii/S0167642315000660> [Accessed: 04-Feb-2020].

- [9] S. Combefis, A. Paques. (2015, July). Pythia reloaded: an intelligent unit testing-based code grader for education. *ACM Digital Library*. [Online] Available: <https://dl.acm.org/doi/pdf/10.1145/2792404.2792407?download=true> [Accessed: 04-Feb-2020].

[10] T. Xie, N. Tillmann, and P. Lakshman, “Advances in Unit Testing: Theory and Practice,” *Microsoft Research*, 01-May-2016. [Online]. Available: <https://www.microsoft.com/en-us/research/publication/advances-in-unit-testing-theory-and-practice/>. [Accessed: 04-Feb-2020].