



Universiteit
Leiden
The Netherlands

Testing object Interactions

Grüner, A.

Citation

Grüner, A. (2010, December 15). *Testing object Interactions*. Retrieved from <https://hdl.handle.net/1887/16243>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/16243>

Note: To cite this publication please use the final published version (if applicable).

BIBLIOGRAPHY

- [1] Abadi, M., Cardelli, L.: A Theory of Objects. Monographs in Computer Science. Springer-Verlag (1996)
- [2] Abraham, E., de Boer, F.S., Bonsangue, M.M., Grüner, A., Steffen, M.: Observability, connectivity, and replay in a sequential calculus of classes. In: M. Bonsangue, F.S. de Boer, W.P. de Roever, S. Graf (eds.) Proceedings of the Third International Symposium on Formal Methods for Components and Objects (FMCO 2004), *Lecture Notes in Computer Science*, vol. 3657, pp. 296–316. Springer-Verlag (2005). URL <http://www.ifi.uio.no/~msteffen/download/fa-fmco.pdf>
- [3] Abraham, E., Grabe, I., Grüner, A., Steffen, M.: Behavioral interface description of an object-oriented language with futures and promises. Journal of Logic and Algebraic Programming (2009). URL <http://www.ifi.uio.no/~msteffen/download/09/futures.pdf>. To appear in a special issue of the Journal of Logic and Algebraic Programming (NWPT'07).
- [4] Abraham, E., Grüner, A., Steffen, M.: Abstract Interface Behavior of Object-Oriented Languages with Monitors. Theory of Computing Systems **43**(3-4), 322–361 (2008). DOI 10.1007/s00224-007-9047-0. URL <http://www.ifi.uio.no/~msteffen/download/07/monitors-journal.pdf>
- [5] Abraham, E., Grüner, A., Steffen, M.: Heap-Abstraction for an Object-Oriented Calculus with Thread Classes. Journal of Software and Systems Modelling (SoSyM) **7**(2), 177–208 (2008). DOI 10.1007/s10270-007-0065-9. URL <http://springerlink.metapress.com/content/dqxhn70707442838/fulltext.pdf>
- [6] Ammann, P., Offutt, J.: Introduction to Software Testing, 1 edn. Cambridge University Press (2008)
- [7] Bandat, K.: On the Formal Definition of PL/I. In: AFIPS '68 (Spring): Proceedings of the April 30–May 2, 1968, Spring Joint Computer Conference, pp. 363–373. ACM, New York, NY, USA (1968). DOI <http://doi.acm.org/10.1145/1468075.1468130>
- [8] Barbey, S., Buchs, D., Péraire, C.: A Theory of Specification-Based Testing for Object-Oriented Software. In: Proceedings of the European Dependable Computing Conference, *Lecture Notes in Computer Science*, vol. 1150. Springer-Verlag (1996)
- [9] Baresi, L., Pezzè, M.: An Introduction to Software Testing. Electr. Notes Theor. Comput. Sci. **148**(1), 89–111 (2006)
- [10] Beck, K.: Smalltalk Idioms: Simple Smalltalk Testing. The Smalltalk Report **4**(2) (1994). URL <http://www.xprogramming.com/testfram.htm>

- [11] Beck, K.: *Extreme Programming Explained: Embrace Change*. Addison-Wesley (2000)
- [12] Beck, K., Gamma, E.: *Test Infected: Programmers Love Writing Tests*. *Java Report* **3**(7), 51–56 (1998)
- [13] Beizer, B.: *Software Testing Techniques*, 2 edn. Van Nostrand Reinhold Co., New York, NY, USA (1990)
- [14] Bertolino, A.: *Software Testing Research: Achievements, Challenges, Dreams*. In: *Proceedings of Future of Software Engineering at ICSE 2007*, pp. 85–103 (2007)
- [15] Biermann, G., Parkinson, M.J., Pitts, A.M.: *An Imperative Core Calculus for Java and Java with Effects*. Technical Report 563, University of Cambridge Computer Laboratory (2004)
- [16] Binder, R.V.: *Testing Object-Oriented Systems, Models, Patterns, and Tools*. Addison-Wesley (2000)
- [17] Birrell, A.D.: *An Introduction to Programming with C# Threads*. Technical Report TR-2005-68, Microsoft Research Technical Report (2005)
- [18] Boehm, B., Basili, V.R.: *Software Defect Reduction Top 10 List*. *Computer* **34**(1), 135–137 (2001). DOI <http://doi.ieeecomputersociety.org/10.1109/2.962984>
- [19] Boehm, B.W.: *Guidelines for Verifying and Validating Software Requirements and Design Specifications*. In: Samet, P. A. (ed.): *IFIP*, pp. 711–719. North-Holland: Amsterdam (1979)
- [20] de Boer, F.S., Bonsangue, M.M., Grüner, A., Steffen, M.: *Java test driver generation from object-oriented interaction traces*. In: *Proceedings of the 2nd International Workshop on Harnessing Theories for Tool Support in Software TTSS'08, ICTAC 2008 satellite workshop*, 30. August 2008, Istanbul, Turkey (2008). URL <http://www.ifi.uio.no/~msteffen/download/08/javatestdriver.pdf>
- [21] Byous, J.: *Java Technology: The Early Years*. Sun Developer Network (1998). URL <http://java.sun.com/features/1998/05/birthday.html>
- [22] Dahl, O.J., Nygaard, K.: *SIMULA — An ALGOL-Based Simulation Language*. *Communications of the ACM* **9**(9), 671–678 (1966)
- [23] Dijkstra, E.W.: *Ewd 340: The Humble Programmer*. *Communications of the ACM* **15** (1972). URL <http://www.cs.utexas.edu/users/EWD/ewd03xx/EWD340.PDF>
- [24] *The easyMock home page* (2007). URL <http://www.easymock.org>
- [25] *ECMA International Standardizing Information and Communication Systems: C# Language Specification*, 4th edn. (2006). Standard ECMA-334
- [26] *The Eiffel home page* (2008). URL <http://www.eiffel.com>
- [27] Fowler, M.: *Mocks Aren't Stubs* (2007). URL <http://www.martinfowler.com/articles/mocksArentStubs.html>
- [28] Freeman, S., Pruyce, N., Mackinnon, T., Walms, J.: *Mock Roles, not Objects*. In: *Nineteenth Object Oriented Programming: Systems, Languages, and Applications (OOPSLA) '04. ACM* (2004). In *SIGPLAN Notices*
- [29] Freeman, S., Pryce, N.: *Evolving an Embedded Domain-Specific Language in Java*. In: P.L. Tarr, W.R. Cook (eds.) *OOPSLA Companion*, pp. "855–865". ACM (2006)

- [30] Goldberg, A., Robson, D.: Smalltalk-80: The Language and its Implementation. Addison-Wesley, Reading, MA (1983)
- [31] Gordon, A.D., Hankin, P.D.: A Concurrent Object Calculus: Reduction and Typing. In: U. Nestmann, B.C. Pierce (eds.) Proceedings of HLCL '98, *Electronic Notes in Theoretical Computer Science*, vol. 16.3. Elsevier Science Publishers (1998). URL <http://www.elsevier.nl/locate/entcs/volume16.3.html>
- [32] Guttag, J.V., Horning, J.J., Wing, J.M.: Larch in Five Easy Pieces. Tech. Rep. 5, DEC System Research Center, 130 Lytton Avenue, Palo Alto, CA 94301 (1985). Order from src-report@src.dec.com
- [33] Harrold, M.J.: Testing: A roadmap. In: In The Future of Software Engineering, pp. 61–72. ACM Press (2000)
- [34] Igarashi, A., Pierce, B.C., Wadler, P.: Featherweight Java: A minimal core calculus for Java and GJ. In: Object Oriented Programming: Systems, Languages, and Applications (OOPSLA) '99, pp. 132–146. ACM (1999). In *SIGPLAN Notices*
- [35] Jacky, J., Veanes, M., Campbell, C., Schulte, W.: Model-Based Software Testing and Analysis with C#. Cambridge University Press (2008)
- [36] JSR 175: A Metadata Facility for the Java Programming Language (2004). URL <http://jcp.org/en/jsr/detail?id=175>
- [37] The Java Modeling Language (JML) home page (2003). URL <http://www.cs.iastate.edu/~leavens/JML/>
- [38] The jMock home page (2007). URL <http://www.jmock.org>
- [39] Jones, C.: Applied Software Management: Assuring Productivity and Quality. McGraw-Hill (1996)
- [40] Jones, C.B.: Systematic Software Development Using VDM, 2 edn. International Series in Computer Science. Prentice Hall (1990)
- [41] The JUnit home page (2007). URL <http://junit.sourceforge.net>
- [42] Kaner, C., Nguyen, H.Q., Falk, J.L.: Testing Computer Software. John Wiley & Sons, Inc., New York, NY, USA (1993)
- [43] Kats, L.C.L., Bravenboer, M., Visser, E.: Mixing Source and Bytecode. A Case for Compilation by Normalization. In: G. Kiczales (ed.) Proceedings of the 23rd ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2008), pp. 91–108. ACM, New York, NY, USA (2008)
- [44] Leavens, G.T., Cheon, Y.: Design by Contract with JML (2006). URL <http://www.jmlspecs.org/jmldbc.pdf>
- [45] Mackinnon, T., Freeman, S., Craig, P.: Endo-Testing: Unit Testing with Mock Objects. In: G. Succi, M. Marchesi (eds.) Extreme Programming Examined, The XP Series, pp. 287–301. Addison-Wesley (2001)
- [46] Meyer, B.: Applying “Design by Contract”. IEEE Computer **25**(10), 40–51 (1992)
- [47] Milner, R.: An algebraic definition of simulation between programs. In: Proceedings of 2nd Joint Conference on Artificial Intelligence, pp. 481–489. BCS (1971)
- [48] Milner, R.: Communication and Concurrency. Prentice Hall (1989)
- [49] Morris, J.H.: Lambda Calculus Models of Programming Languages. Technical Report MIT-LCS TR-57, MIT Press (1968)

- [50] Myers, G.J.: The Art of Software Testing, 2nd edn. Wiley (2004)
- [51] Nathaniel Nystrom Michael R. Clarkson, A.C.M.: Polyglot: An Extensible Compiler Framework for Java. In: Proceedings of the 12th International Conference on Compiler Construction. Springer (2003)
- [52] Naur, P., Randell, B. (eds.): Software Engineering: A Report on a Conference sponsored by the NATO science committee. NATO (1969). URL <http://homepages.cs.ncl.ac.uk/brian.randell/NATO/nato1968.PDF>
- [53] de Nicola, R., Hennessy, M.: Testing Equivalences for Processes. Theoretical Computer Science **34**, 83–133 (1984)
- [54] Park, D.M.R.: Concurrency and automata on infinite sequences. In: P. Deussen (ed.) Fifth GI Conference on Theoretical Computer Science, *Lecture Notes in Computer Science*, vol. 104, pp. 167–183. Springer-Verlag (1981)
- [55] Patton, R.: Software Testing, 2nd edn. SAMS (2005)
- [56] Plotkin, G.D.: A structural approach to operational semantics. Report DAIMI FN-19, Computer Science Department, Aarhus University (1981)
- [57] Prasetya, W., Vos, T., Baars, A.: Trace-based Reflexive Testing of OO Programs with T2. In: ICST '08: Proceedings of the 2008 International Conference on Software Testing, Verification, and Validation, pp. 151–160. IEEE Computer Society, Washington, DC, USA (2008). DOI <http://dx.doi.org/10.1109/ICST.2008.12>
- [58] Rahn, C.: Bloomberg.com (2009). URL <http://www.bloomberg.com/apps/news?pid=20601100&sid=avUsNKymzMPk>
- [59] Reynolds, J.C.: Theories of Programming Languages. Cambridge University Press (1998)
- [60] Roscoe, A.W.: Theory and Practice of Concurrency. Prentice Hall (1998)
- [61] Spillner, A., Linz, T., Schaefer, H.: Software Testing Foundations: A Study Guide for the Certified Tester Exam, 1 edn. Rocky Nook (2006)
- [62] Std.1008-1987, I.: IEEE Standard for Software Unit Testing. The Institute of Electrical and Electronics Engineers: New York (1993)
- [63] Std.610.121990, I.: IEEE Standard Glossary of Software Engineering Terminology. The Institute of Electrical and Electronics Engineers: New York (1990)
- [64] Steffen, M.: Object-Connectivity and Observability for Class-Based, Object-Oriented Languages. Habilitation thesis, Technische Faktultät der Christian-Albrechts-Universität zu Kiel (2006)
- [65] Stevens, P., Pooley, R.: Using UML: Software engineering with Objects and Components. Object Technology Series. Addison-Wesley Longman (1999)
- [66] Strniša, R., Sewell, P., Parkinson, M.: The Java Module System: Core Design and Semantic Definition. In: OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on Object oriented programming systems and applications, pp. 499–514. ACM, New York, NY, USA (2007). DOI 10.1145/1297027.1297064
- [67] Stroustrup, B.: The C++ Programming Language. Addison-Wesley (1986)
- [68] The TestNG home page (2008). URL <http://java-source.net/open-source/testing-tools/testng>

- [69] Tretmans, G.J.: A formal approach to conformance testing. Ph.D. thesis, Enschede (1992). URL <http://doc.utwente.nl/58114/>
- [70] Methods for Testing and Specification (MTS). The Testing and Test Control Notation Version 3 (TTCN-3)". European Standard ETSI ES 201 8731 v2.2.1 (2002)
- [71] Tucker, A.B. (ed.): The Computer Science and Engineering Handbook. CRC Press, Inc., Boca Raton, FL, USA (2004)
- [72] Wright, G.R., Stevens, W.R.: TCP/IP Illustrated: The implementation. Addison-Wesley (2004)