

SWEN423 Object-Oriented Paradigms

Reading list for SWEN423 Object-Oriented Paradigms

[View Online](#)

[1]

J. Aldrich, 'The power of interoperability', in Proceedings of the 2013 ACM international symposium on New ideas, new paradigms, and reflections on programming & software - Onward! '13, 2013, pp. 101–116. doi: 10.1145/2509578.2514738.

[2]

'Byte Magazine - Smalltalk', vol. 06, no. 08, 1981, [Online]. Available: <https://archive.org/details/byte-magazine-1981-08>

[3]

R. E. Johnson, 'Frameworks = (components + patterns)', Communications of the ACM, vol. 40, no. 10, pp. 39–42, Oct. 1997, doi: 10.1145/262793.262799.

[4]

R. E. Johnson, 'Documenting frameworks using patterns', in conference proceedings on Object-oriented programming systems, languages, and applications - OOPSLA '92, 1992, pp. 63–76. doi: 10.1145/141936.141943.

[5]

D. Roberts and R. Johnson, 'Evolving Frameworks: A Pattern Language for Developing Object-Oriented Frameworks', Pattern Languages of Program Design 3, pp. 471–486, 1998, [Online]. Available: <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.46.8767>

[6]

J. Noble and R. Biddle, 'Notes on Postmodern Programming', in Onward! Track proceedings from OOPSLA 2002, 2002, pp. 1–23. [Online]. Available: <https://dl.acm.org/citation.cfm?id=1052890>

[7]

B. Foote and J. Yoder, 'Chapter 29: Big Ball of Mud', in Pattern Languages of Program Design 4, N. Harrison, B. Foote, and H. Rohnert, Eds. Reading, MA: Addison-Wesley, 2000, pp. 653–692. [Online]. Available: <http://www.laputan.org/mud/>

[8]

W. LaLonde and J. Pugh, 'Subclassing (not-equal-to) subtyping (not-equal-to) is-a', Journal of Object-Oriented Programming (JOOP), vol. 3, no. 5, pp. 57–62.

[9]

T. A. Cargill, 'Controversy: The Case Against Multiple Inheritance in C++', Computing Systems: A quarterly publication of the USENIX Association, vol. 4, no. 1, pp. 69–82, 1991, [Online]. Available: https://www.usenix.org/legacy/publications/compsystems/1991/win_cargill.pdf

[10]

J. Waldo, 'Controversy: The Case For Multiple Inheritance in C++', Computing Systems: A quarterly publication of the USENIX Association, vol. 4, no. 2, pp. 157–171, 1991, [Online]. Available: https://www.usenix.org/legacy/publications/compsystems/1991/spr_waldo.pdf

[11]

G. Kiczales, E. Hilsdale, J. Hugunin, M. Kersten, J. Palm, and W. Griswold, 'Getting started with ASPECTJ', Communications of the ACM, vol. 44, no. 10, pp. 59–65, Oct. 2001, doi: 10.1145/383845.383858.

[12]

G. Kiczales, E. Hilsdale, J. Hugunin, M. Kersten, J. Palm, and W. G. Griswold, 'An Overview of AspectJ', in ECOOP 2001 — Object-Oriented Programming, vol. 2072, J. L. Knudsen, Ed. Berlin, Heidelberg: Springer Berlin Heidelberg, 2001, pp. 327–354. doi:

10.1007/3-540-45337-7_18.

[13]

J. Kienzle and R. Guerraoui, 'AOP: Does It Make Sense? The Case of Concurrency and Failures', in ECOOP 2002 — Object-Oriented Programming, vol. 2374, B. Magnusson, Ed. Berlin, Heidelberg: Springer Berlin Heidelberg, 2002, pp. 37–61. doi: 10.1007/3-540-47993-7_2.

[14]

F. Steimann, 'The paradoxical success of aspect-oriented programming', 2006. doi: 10.1145/1167473.1167514.

[15]

S. Ducasse, O. Nierstrasz, N. Schärli, R. Wuyts, and A. P. Black, 'Traits', ACM Transactions on Programming Languages and Systems, vol. 28, no. 2, pp. 331–388, Mar. 2006, doi: 10.1145/1119479.1119483.

[16]

Y. Wang, H. Zhang, B. C. d. S. Oliveira, and M. Servetto, 'Classless Java', ACM SIGPLAN Notices, vol. 52, no. 3, pp. 14–24, Oct. 2016, doi: 10.1145/3093335.2993238.

[17]

E. Ernst, 'The expression problem, scandinavian style'. [Online]. Available: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.96.5386&rep=rep1&type=pdf>

[18]

Y. Wang and B. C. d. S. Oliveira, 'The expression problem, trivially!', in Proceedings of the 15th International Conference on Modularity - MODULARITY 2016, 2016, pp. 37–41. doi: 10.1145/2889443.2889448.

[19]

M. Zenger and M. Odersky, 'FOOL 2005 - Independently Extensible Solutions to the Expression Problem'. <http://homepages.inf.ed.ac.uk/wadler/fool/program/10.html>

[20]

'Separating Use and Reuse to Improve Both - Details', [Online]. Available: <https://programming-journal.org/2019/3/12/>

[21]

M. Servetto and E. Zucca, 'A meta-circular language for active libraries', *Science of Computer Programming*, vol. 95, pp. 219–253, Dec. 2014, doi: 10.1016/j.scico.2014.05.003.

[22]

G. Bracha, P. von der Ahé, V. Bykov, Y. Kashai, W. Maddox, and E. Miranda, 'Modules as Objects in Newspeak', in *ECOOP 2010 – Object-Oriented Programming*, vol. 6183, T. D'Hondt, Ed. Berlin, Heidelberg: Springer Berlin Heidelberg, 2010, pp. 405–428. doi: 10.1007/978-3-642-14107-2_20.

[23]

G. Bracha and D. Ungar, 'Mirrors', 2004. doi: 10.1145/1028976.1029004.

[24]

R. Muschevici, A. Potanin, E. Tempero, and J. Noble, 'Multiple dispatch in practice', 2008. doi: 10.1145/1449764.1449808.

[25]

Paola, Giannini, Elena, Zucca, Marco, Servetto, and James, Cone, 'Flexible recovery of uniqueness and immutability', 2018, [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0304397518305668>

[26]

Marco Servetto, Alex, Potanin, David, Pearce, and Lindsay, Groves, 'Balloon Types for Safe Parallelisation over Arbitrary Object Graphs', [Online]. Available: <https://www.semanticscholar.org/paper/Balloon-Types-for-Safe-Parallelisation-over-Object-Servetto-Pearce/4522464d6ef46d396737e81958fcf4129978160d?tab=abstract>

[27]

G. Lagorio and M. Servetto, 'Strong exception-safety for checked and unchecked exceptions.', *The Journal of Object Technology*, vol. 10, 2011, doi: 10.5381/jot.2011.10.1.a1.

[28]

M. Servetto, J. Mackay, A. Potanin, and J. Noble, 'The Billion-Dollar Fix', *ECOOP 2013 - Object-Oriented Programming*, vol. 7920, pp. 205-229, 2013, doi: 10.1007/978-3-642-39038-8_9.

[29]

'The Untold Story of NotPetya, the Most Devastating Cyberattack in History | WIRED'. <https://www.wired.com/story/notpetya-cyberattack-ukraine-russia-code-crashed-the-world/>

[30]

T. Hopkins and B. Horan, 'Chapter 26: Classes and Metaclasses', in *Smalltalk: An Introduction to Application Development Using Visualworks*, Prentice-Hall, 1995, pp. 279-286. [Online]. Available: <http://trevor-hopkins.com/downloads/HopkinsHoran.pdf>

[31]

O. L. Madsen, B. Moller-Pedersen, and K. Nygaard, *Object-Oriented Programming in the Beta Programming Language*, 2nd edition. Harlow: Pearson Education, 1993.

[32]

B. Stroustrup, 'Why C++ is not just an object-oriented programming language', in *Addendum to the proceedings of the 10th annual conference on Object-oriented programming systems, languages, and applications (Addendum) - OOPSLA '95*, 1995, pp. 1-13. doi: 10.1145/260094.260207.

[33]

B. Stroustrup, 'Sixteen Ways to Stack a Cat', The C++ Report: The International Authority on C++ Development, [Online]. Available: http://www.stroustrup.com/stack_cat.pdf

[34]

W. R. Cook, 'On understanding data abstraction, revisited', ACM SIGPLAN Notices, vol. 44, no. 10, Oct. 2009, doi: 10.1145/1639949.1640133.

[35]

A. Goldberg and D. Robson, Smalltalk-80: The Language and Its Implementation. Reading, MA: Addison-Wesley, 1983. [Online]. Available: <http://stephane.ducasse.free.fr/FreeBooks/BlueBook/Bluebook.pdf>

[36]

M. S. Miller, 'Robust Composition: Towards a Unified Approach to Access Control and Concurrency Control', Johns Hopkins University, Baltimore, Maryland, 2006. [Online]. Available: <http://erights.org/talks/thesis/index.html>

[37]

D. Ungar and R. B. Smith, 'Self: The power of simplicity', in Conference proceedings on Object-oriented programming systems, languages and applications - OOPSLA '87, 1987, pp. 227-242. doi: 10.1145/38765.38828.

[38]

A. Taivalsaari, 'On the notion of inheritance', ACM Computing Surveys, vol. 28, no. 3, pp. 438-479, Sep. 1996, doi: 10.1145/243439.243441.

[39]

C. F. Bolz, L. Diekmann, and L. Tratt, 'Storage strategies for collections in dynamically typed languages', in Proceedings of the 2013 ACM SIGPLAN international conference on Object oriented programming systems languages & applications - OOPSLA '13, 2013, pp.

167–182. doi: 10.1145/2509136.2509531.

[40]

G. Richards, C. Hammer, B. Burg, and J. Vitek, 'The Eval That Men Do', in ECOOP 2011 – Object-Oriented Programming, vol. 6813, M. Mezini, Ed. Berlin, Heidelberg: Springer Berlin Heidelberg, 2011, pp. 52–78. doi: 10.1007/978-3-642-22655-7_4.

[41]

K. Beck and W. Cunningham, 'A laboratory for teaching object oriented thinking', in Conference proceedings on Object-oriented programming systems, languages and applications - OOPSLA '89, 1989, pp. 1–6. doi: 10.1145/74877.74879.

[42]

W. Cunningham, 'A CRC Description of HotDraw', 1994. <http://c2.com/doc/crc/draw.html>

[43]

K. Beck, 'Manifesto for Agile Software Development', 2001. <http://agilemanifesto.org/>

[44]

K. Beck, 'Embracing change with extreme programming', Computer, vol. 32, no. 10, pp. 70–77, 1999, doi: 10.1109/2.796139.

[45]

D. G. Feitelson, E. Frachtenberg, and K. L. Beck, 'Development and Deployment at Facebook', IEEE Internet Computing, vol. 17, no. 4, pp. 8–17, 2013, doi: 10.1109/MIC.2013.25.

[46]

Paola, Giannini, Elena, Zucca, Marco, Servetto, and James, Cone, 'Flexible recovery of uniqueness and immutability', 2018, [Online]. Available:

<https://www.sciencedirect.com/science/article/pii/S0304397518305668>

[47]

'The Untold Story of NotPetya, the Most Devastating Cyberattack in History | WIRED'.

<https://www.wired.com/story/notpetya-cyberattack-ukraine-russia-code-crashed-the-world/>