

Bibliography

- [1] P. Hudak, "Conception, Evolution and Application of Functional Programming Languages," *ACM Computing Surveys*, vol. 21, no. 3, 1989.
- [2] P. Hudak, J. Hughes, S. Peyton Jones, and P. Wadler, "A History of Haskell: Being Lazy with Class," in *Proceedings of the Conference on History of Programming Languages*. ACM Press, 2007.
- [3] P. Wadler, "Theorems for Free!" in *Proceedings of the International Conference on Functional Programming and Computer Architecture*. ACM Press, 1989.
- [4] S. Marlow, Ed., *Haskell Language Report*, 2010, available on the web from: <https://www.haskell.org/definition/haskell2010.pdf>.
- [5] M. P. Jones, "Typing Haskell in Haskell," in *Proceedings of the Haskell Workshop*. University of Utrecht, Technical Report UU-CS-1999-28, 1999.
- [6] H. Barendregt, *The Lambda Calculus, Its Syntax and Semantics*. North Holland, 1985.
- [7] S. Singh, *The Code Book: The Secret History of Codes and Code Breaking*. Fourth Estate, 2002.
- [8] H. Glaser, P. Hartel, and P. Garratt, "Programming by Numbers: A Programming Method for Novices," *The Computer Journal*, vol. 43, no. 4, 2000.
- [9] J. Gibbons and O. de Moor, Eds., *The Fun of Programming*. Palgrave, 2003.
- [10] G. Hutton, "A Tutorial on the Universality and Expressiveness of Fold," *Journal of Functional Programming*, vol. 9, no. 4, 1999.
- [11] G. Hutton and J. Wright, "Calculating an Exceptional Machine," in *Trends in Functional Programming Volume 5*. Intellect, 2006.
- [12] G. Huet, "The Zipper," *Journal of Functional Programming*, vol. 7, no. 5, 1997.
- [13] G. Hutton, "The Countdown Problem," *Journal of Functional Programming*, vol. 12, no. 6, 2002.
- [14] R. Bird and S.-C. Mu, "Countdown: A Case Study in Origami Programming," *Journal of Functional Programming*, vol. 15, no. 5, 2005.
- [15] S. Peyton Jones, "Tackling the Awkward Squad: Monadic Input/Output, Concurrency, Exceptions, and Foreign-Language Calls in Haskell," in *Engineering Theories of Software Construction*. IOS Press, 2001.
- [16] D. E. Knuth and R. W. Moore, "An Analysis of Alpha-Beta Pruning," *Artificial Intelligence*, vol. 6, no. 4, 1975.
- [17] S. Awodey, *Category Theory*. Oxford University Press, 2010.
- [18] P. Wadler, "Monads for Functional Programming," in *Proceedings of the Marktoberdorf Summer School on Program Design Calculi*. Springer, 1992.

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- [19] C. McBride and R. Paterson, "Applicative Programming With Effects," *Journal of Functional Programming*, vol. 18, no. 1, 2008.
- [20] G. Hutton and D. Fulger, "Reasoning About Effects: Seeing the Wood Through the Trees," in *Proceedings of Trends in Functional Programming*, 2008.
- [21] G. Hutton and E. Meijer, "Monadic Parser Combinators," University of Nottingham, Technical Report NOTTCS-TR-96-4, 1996.
- [22] ———, "Monadic Parsing in Haskell," *Journal of Functional Programming*, vol. 8, no. 4, 1998.
- [23] V. Rayward-Smith, *A First Course in Formal Language Theory*. Blackwell Scientific Publications, 1983.
- [24] D. Leijen, "Parsec: A Parsing Library for Haskell," available on the web from: <https://hackage.haskell.org/package/parsec>.
- [25] A. Gill and S. Marlow, "Happy: A Parser Generator for Haskell," available on the web from: <https://hackage.haskell.org/package/happy>.
- [26] D. Pioni, "Haskell Monoids and their Uses," 2009, available on the web from: <http://tinyurl.com/pioni-monoids>.
- [27] E. Meijer, M. Fokkinga, and R. Paterson, "Functional Programming with Bananas, Lenses, Envelopes and Barbed Wire," in *Proceedings of the Conference on Functional Programming and Computer Architecture*. Springer, 1991.
- [28] L. Meertens, "Calculate Polytypically!" in *Proceedings of the International Symposium on Programming Languages: Implementations, Logics, and Programs*. Springer, 1996.
- [29] J. C. Reynolds, *Theories of Programming Languages*. Cambridge University Press, 1998.
- [30] J. Hughes, "Why Functional Programming Matters," *The Computer Journal*, vol. 32, no. 2, 1989.
- [31] J. Launchbury, "A Natural Semantics for Lazy Evaluation," in *Proceedings of the Symposium on Principles of Programming Languages*. ACM Press, 1993.
- [32] S. Peyton Jones and D. Lester, *Implementing Functional Languages: A Tutorial*. Prentice Hall, 1992.
- [33] N. Danielsson and P. Jansson, "Chasing Bottoms: A Case Study in Program Verification in the Presence of Partial and Infinite Values," in *Proceedings of the Conference on Mathematics of Program Construction*. Springer, 2004.
- [34] J. Gibbons and G. Hutton, "Proof Methods for Corecursive Programs," *Fundamenta Informaticae*, vol. 66, no. 4, 2005.
- [35] K. Claessen and J. Hughes, "QuickCheck: A Lightweight Tool for Random Testing of Haskell Programs," in *Proceedings of the International Conference on Functional Programming*, 2000.
- [36] J. Gibbons and R. Hinze, "Just Do It: Simple Monadic Equational Reasoning," in *Proceedings of the International Conference on Functional Programming*, 2011.
- [37] G. Hutton and J. Wright, "Compiling Exceptions Correctly," in *Proceedings of the Conference on Mathematics of Program Construction*. Springer, 2004.
- [38] P. Wadler, "The Concatenate Vanishes," 1989, University of Glasgow.
- [39] P. Bahr and G. Hutton, "Calculating Correct Compilers," *Journal of Functional Programming*, vol. 25, 2015.
- [40] G. Hutton and P. Bahr, "Cutting Out Continuations," in *Proceedings of Wadler-Fest, A List of Successes That Can Change the World*. Springer, 2016.