C Publication lists

Selected Publications: Patrik Jansson

Note to non computer scientists Conference articles in computer science are peer reviewed full articles — not 1–2 page abstracts, and are the normal form of refereed publication. The top conferences in each subfield (like *POPL* below) typically have the highest impact factor within that field. All articles listed below are selected for publication by a peer review process.

Most cited publications (Google Scholar)

Jansson's Hirsch-index is 14 and the following papers are the five most cited.

1. **P. Jansson** and J. Jeuring. PolyP — a polytypic programming language extension. In *POPL'97: Principles of Programming Languages*, pages 470–482. ACM Press, 1997.
   Number of citations: 264.

2. R. Backhouse, **P. Jansson**, J. Jeuring, and L. Meertens. Generic programming: An introduction. In *Advanced Functional Programming*, volume 1608 of *LNCS*, pages 28–115. Springer-Verlag, 1999.
   Number of citations: 151.

3. J. Jeuring and **P. Jansson**. Polytypic programming. In J. Launchbury et al., editors, *Advanced Functional Programming '96*, volume 1129 of *LNCS*, pages 68–114. Springer-Verlag, 1996.
   Number of citations: 151.

4. **P. Jansson** and J. Jeuring. Functional pearl: Polytypic unification. *Journal of Functional Programming*, 8(5):527–536, 1998.
   Number of citations: 47.

5. **P. Jansson**. *Functional Polytypic Programming*. PhD thesis, Computing Science, Chalmers University of Technology and Göteborg University, Sweden, May 2000.
   Number of citations: 43.

Journal articles (last 8 years)

6. (*/**) J.-P. Bernardy, **P. Jansson**, M. Zalewski, and S. Schupp. Generic programming with C++ concepts and Haskell type classes—a comparison. *Journal of Functional Programming*, 2010. In press.

7. (*/**) A. Rodriguez Yakushev, J. Jeuring, **P. Jansson**, et al. Comparing datatype generic libraries in Haskell. *Journal of Functional Programming*, 2010. In press.

8. (*/**) S.-C. Mu, H.-S. Ko, and **P. Jansson**. Algebra of programming in Agda: dependent types for relational program derivation. *Journal of Functional Programming*, 19(5):545–579, 2009.
Number of citations: 2.

9. (*/**) M. Benke, P. Dybjer, and **P. Jansson**. Universes for generic programs and proofs in dependent type theory. *Nordic Journal of Computing*, 10(4):265–289, 2003.
Number of citations: 35.

10. (*/**) **P. Jansson** and J. Jeuring. Polytypic data conversion programs. *Science of Computer Programming*, 43(1):35–75, 2002.
Number of citations: 43.

Articles in refereed collections and conf. proceedings (last 8 years)

11. (*/**) J.-P. Bernardy, **P. Jansson**, and K. Claessen. Testing polymorphic properties. In *Proceedings of ESOP 2010*, volume 6012 of *LNCS*. Springer, 2010.
Number of citations: 0.

12. (*/**) D. Lincke, **P. Jansson** et al. Generic libraries in C++ with concepts from high-level domain descriptions in Haskell: A domain-specific library for computational vulnerability assessment. In W. Taha, editor, *IFIP Working Conference on Domain Specific Languages (DSL WC)*, LNCS 5658, pages 236–261, 2009.
Number of citations: 0.

13. A. Rodriguez, J. Jeuring, **P. Jansson** et al. Comparing libraries for generic programming in Haskell. In *Haskell'08: Proceedings of the first ACM SIGPLAN symposium on Haskell*, pages 111–122. ACM, 2008.
Number of citations: 16.

14. J.-P. Bernardy, **P. Jansson** et al. A comparison of C++ concepts and Haskell type classes. In *Proc. ACM SIGPLAN Workshop on Generic Programming (WGP)*, pages 37–48. ACM, 2008.
Number of citations: 9.

15. S.-C. Mu, H.-S. Ko, and **P. Jansson**. Algebra of programming using dependent types. In *Mathematics of Program Construction*, volume 5133/2008 of *LNCS*, pages 268–283. Springer-Verlag, 2008.
Number of citations: 4.

16. (*/**) **P. Jansson**, J. Jeuring et al. Testing properties of generic functions. In Zoltan Horvath, editor, *Proceedings of IFL 2006*, volume 4449 of *LNCS*, pages 218–234. Springer-Verlag, 2007.
Number of citations: 3.

17. (*/**) N. A. Danielsson, J. Gibbons, J. Hughes, and **P. Jansson**. Fast and loose reasoning is morally correct. In *POPL'06: Conference record of the 33rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages*, pages 206–217, 2006.
Number of citations: 27.

18. N. A. Danielsson and **P. Jansson**. Chasing bottoms — a case study in program verification in the presence of partial and infinite values. In *Mathematics of Program Construction*, volume 3125 of *LNCS*, pages 85–109. Springer-Verlag, 2004.
Number of citations: 26.

19. U. Norell and **P. Jansson**. Prototyping generic programming in template Haskell. In *Mathematics of Program Construction*, volume 3125 of *LNCS*, pages 314–333. Springer-Verlag, 2004.
Number of citations: 10.

20. (*/**) U. Norell and **P. Jansson**. Polytypic programming in Haskell. In *Implementation of Functional Languages*, volume 3145 of *LNCS*, pages 168–184. Springer-Verlag, 2004.
Number of citations: 35.

Publicly available implementations (last 8 years)

I have designed and implemented a compiler for the polytypic language PolyP:

21. **P. Jansson** and U. Norell. The PolyP 2 compiler. Available from the Polytypic programming WWW page `www.cse.chalmers.se/~patrikj/poly/`, 2004.

I have also participated in the development of the Agda proof engine,

22. U. Norell et al. Agda — a dependently typed programming language. Available from the Agda wiki `http://wiki.portal.chalmers.se/agda`, 2009.