

**Publications:****International journals**

1. Thomas Jensen. Conjunctive type systems and abstract interpretation of higher-order functional programs. *Journal of Logic and Computation*, 5(4):397–421 1995.
2. **Thomas Jensen. Disjunctive Program Analysis for Algebraic Data Types. *ACM Transactions on Programming Languages and Systems*, 19(5):752–804, 1997.**
3. Frédéric Besson, Thomas Jensen, Daniel Le Métayer, Tommy Thorn. Model checking security properties of control flow graphs. *Journal of Computer Security*, 9:217–250, 2001.
4. Ewen Denney, Thomas Jensen. Correctness of Java Card method lookup via logical relations, *Theoretical Computer Science* 283:305–331, 2002.
5. Anindya Banerjee, Thomas Jensen. Modular control-flow analysis with rank-2 intersection types, *Mathematical Structures in Computer Science*, 13(1):87–124, 2003.
6. **Fausto Spoto, Thomas Jensen. Class Analyses via Abstract Interpretation of Trace Semantics, *ACM Transactions on Programming Languages and Systems*, 25(5):578–630, 2003.**
7. David Cachera, Thomas Jensen, David Pichardie, and Vlad Rusu. Extracting a data flow analyser in constructive logic. *Theoretical Computer Science*, 342(1):56–78, 2005.
8. **Frédéric Besson, Thomas de Grenier de Latour, and Thomas Jensen. Interfaces for stack inspection. *Journal of Functional Programming*, 15(2):179–217, 2005.**
9. Frédéric Besson, Thomas Jensen, and David Pichardie. Proof-Carrying Code from Certified Abstract Interpretation and Fixpoint Compression. *Theoretical Computer Science*, 364(3):273–291, 2006.
10. Frédéric Besson, Guillaume Dufay, Thomas Jensen, and David Pichardie. Verifying Resource Access Control on Mobile Interactive Devices *Journal of Computer Security*, 18(6):971-998, 2010.
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12. Jan Midtgaard, Thomas Jensen. Control Flow Analysis of Function Calls and Returns by Abstract Interpretation. *Information and Computation* 211, pp. 49-76, 2012.
13. **Thomas Jensen, Florent Kirchner, David Pichardie. Secure the Clones: Static Enforcement of Policies for Secure Object Copying. *Logical Methods in Computer Science* 8, 2. 2012.**
14. **David Cachera, Thomas Jensen, Arnaud Jobin, Florent Kirchner: Inference of polynomial invariants for imperative programs: A farewell to Gröbner bases. *Science of Computer Programming* 93, pp. 89-109, 2014.**
15. **Ahmad Salim Al-Sibahi, Alexandar Dimovski, Thomas Jensen, Andrzej Wasowski. Verification of High-Level Transformations with Inductive Refinement Types, *ACM Trans. on Software Engineering and Methodology*, 30(1):1–33, 2021.**

Please note that my two latest POPL papers [72][71] and ICFP papers [75][76] are published as articles in the new journal *Proceedings of the ACM on Programming Languages*. I have listed them under international conferences.

**Reviewed international conferences**

16. **Thomas Jensen, Torben Æ. Mogensen.** A Backwards Analysis for Compile Time Garbage Collection, *Proc. of European Symposium on Programming (ESOP'90)*, Springer LNCS 432, p. 227–239, 1990.
17. **Samson Abramsky and Thomas Jensen.** A relational approach to strictness analysis of higher order polymorphic functions. *Proc. 18th ACM Symposium on Principles of Programming Languages (POPL'91)*. ACM Press, 1991.
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19. **Eric Goubault and Thomas Jensen.** Homology of higher dimensional automata. *Proc. of 3rd International Conference on Concurrency Theory (CONCUR)*, Springer LNCS vol. 630, 1992.
20. **Thomas Jensen.** Disjunctive strictness analysis. *Proc. of 7th IEEE Symposium on Logic In Computer Science (LICS'92)*. Computer Society Press of the IEEE, 1992.
21. Thomas Jensen. Abstract interpretation over algebraic data types. *Proc. 5th IEEE International Conference on Computer Languages*. IEEE Press, May 1994.
22. Thomas Jensen. Clock analysis of synchronous dataflow programs. *Proc. of ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation (PEPM'95)*, ACM Press, San Diego, 1995.
23. **Thomas Jensen, and Ian Mackie.** Flow Analysis in the Geometry of Interaction. *Proc. of European Symposium on Programming (ESOP'96)*, Linköping. Springer LNCS, 1996.
24. **Thomas Jensen,** Inference of polymorphic and conditional strictness properties, *Proc. of 25th ACM Symposium on Principles of Programming Languages*, ACM Press, 1998.
25. Thomas Jensen, Daniel Le Métayer, Tommy Thorn, Security and dynamic class loading in Java : a formalisation, *Proc. of 6th IEEE Int. Conference on Computer Languages*, IEEE Press, 1998.
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27. **Frédéric Besson, Thomas Jensen, Jean-Pierre Talpin,** Polyhedral analysis for synchronous languages. *Proc. of 7th Int. Symp. on Static Analysis*. Springer LNCS vol. 1694, 1999.
28. **Ewen Denney, Thomas Jensen,** Correctness of Java Card method lookup via logical relations, *Proc. of European Symposium on Programming*, Springer LNCS vol. 1782, p. 104–118, 2000.
29. Thomas Jensen, Fausto Spoto, Class analysis of object-oriented programs through abstract interpretation, *Proc. of Foundations of Software Science and Computation Structures (FoSSaCS'01)*, Springer LNCS vol. 2030, p. 261–275, 2001.
30. Marc Éluard, Thomas Jensen, Ewen Denney, An Operational Semantics of the Java Card Firewall, *Proc. of Int. Conference on Research in Smart Card Programming and Security (e-Smart 2001)*, Springer LNCS, p. 95–110, 2001.
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32. Marc Éluard, Thomas Jensen: Secure object flow analysis for Java Card, *Proc. of 5th Smart Card Research and Advanced Application Conference (Cardis'02)*, p. 97–110, USENIX, 2002.
33. **Frédéric Besson, Thomas Jensen:** Modular control flow analysis with Datalog, *Proc. of 10th Static Analysis Symposium (SAS 2003)*, Springer LNCS vol. 2694, pp. 19–36, 2003.

34. **David Cachera, Thomas Jensen, David Pichardie, Vlad Rusu.** Extracting a Data Flow Analyser in Constructive Logic, *Proc. of 13th European Symposium on Programming (ESOP'04)*, Springer LNCS vol. 2986, p. 385–400, 2004.
35. Gurvan Le Guernic and Thomas Jensen. Monitoring information flow. In Andrei Sabelfeld, editor, *Proceedings of the 2005 Workshop on Foundations of Computer Security (FCS'05)*, pages 19–30. DePaul University, June 2005.
36. **David Cachera, Thomas Jensen, David Pichardie, and Gerardo Schneider.** Certified memory usage analysis. In *Proc. of 13th International Symposium on Formal Methods (FM'05)*, pages 91–106. Springer LNCS vol. 3582, 2005.
37. Frédéric Besson, Thomas Jensen, and David Pichardie. A PCC Architecture based on Certified Abstract Interpretation. In *Proc. of 1st International Workshop on Emerging Applications of Abstract Interpretation (EAAI'06)*, ENTCS. Springer-Verlag, 2006.
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42. **Yohann Boichut, Thomas Genet, Thomas Jensen, Luka Leroux.** Rewriting Approximations for Fast Prototyping of Static Analyzers. In *Proc of Rewriting Techniques and Applications (RTA'07)*, Springer LNCS vol. 4533, pages 48–62, 2007.
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47. David Cachera and Thomas Jensen and Arnaud Jobin and Pascal Sotin. Long-Run Cost Analysis by Approximation of Linear Operators over Dioids. In *Proc. of the 12th International Conference on Algebraic Methodology and Software Technology (AMAST'08)*, Springer LNCS vol. 5140, pages 122–138, 2008.
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49. Frédéric Besson and David Cachera and Thomas Jensen and David Pichardie. Certified Static Analysis by Abstract Interpretation. *Foundations of Security Analysis and Design (FOSAD 2009)*, Springer LNCS vol. 5705, 2009.
50. **Jan Midtgaard and Thomas Jensen. Control-flow analysis of function calls and returns by abstract interpretation. *Proc. of the 14th ACM International Conference on Functional Programming*, pp. 287–298. ACM Press, 2009.**
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58. **Frédéric Besson, Nataliia Bielova and Thomas Jensen. Hybrid Information Flow Monitoring Against Web Tracking. *Proc. of IEEE Computer Security Foundations Symp. (CSF'13)*, pp. 240-254, 2013.**
59. Frédéric Besson, Nataliia Bielova, Thomas Jensen. Browser Randomisation against Fingerprinting: A Quantitative Information Flow Approach. *Proc. of 19th Nordic Conf. on Secure IT Systems (NordSec 2014)* Springer LNCS vol. 8788, pp. 181-196. 2014.
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66. Pauline Bolignano, Thomas Jensen, Vincent Siles: Modeling and abstraction of memory management in a hypervisor. *Proc. of Fundamental Approaches to Software Engineering (FASE'16)*. Springer LNCS vol. 9633, pp. 214-230, 2016
67. **Thomas Genet, Timothée Haudebourg, Thomas P. Jensen Verifying Higher-Order Functions with Tree Automata.** *Proc. of 21st Int. Conf. on Foundations of Software Science and Computation Structures (FoSSaCS 2018)*, Springer LNCS vol. 10803, pages 565-582, 2018.
68. **Frédéric Besson, Thomas Jensen, Julien Lepiller. Modular Software Fault Isolation as Abstract Interpretation.** *Proc. of 25th Static Analysis Symposium (SAS 2018)*, Springer LNCS vol. 11002, pages 166-186, 2018.
69. Ahmad Salim Al-Sibahi, Alexandar Dimovski, Thomas Jensen, Andrzej Wasowski, Verification of High-Level Transformations with Inductive Refinement Types, *17th ACM Int. Conference on Generative Programming: Concepts & Experience GPCE 2018*, pages 1-14, 2018. **Best paper award.**
70. Frédéric Besson and Alexandre Dang and Thomas P. Jensen Securing Compilation Against Memory Probing *Proc. 13th Workshop on Programming Languages and Analysis for Security, PLAS@CCS 2018*, pages 29–40, ACM, 2018.
71. **Martin Bodin, Philippa Gardner, Thomas Jensen, Alan Schmitt. Skeletal semantics and their interpretations.** *Proc. ACM Program. Lang. 3(POPL):44:1–44:31, 2019.*
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74. **Frédéric Besson, Sandrine Blazy, Alexandre Dang, Thomas Jensen, Pierre Wilke. Compiling Sandboxes: Formally Verified Software Fault Isolation.** *Proc. of 28. European Symp. on Programming (ESOP 2019)*, Springer LNCS vol. 11423, pp. 499-524, 2019.
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