

References

- [1] Jirí Adámek, Filippo Bonchi, Mathias Hülsbusch, Barbara König, Stefan Milius, and Alexandra Silva. A coalgebraic perspective on minimization and determinization. In *Proceedings of the Fifteenth International Conference on Foundations of Software Science and Computation structures (FoSSaCS 2012)*, volume 7213 of *Lecture Notes in Computer Science*, pages 58–73, 2012.
- [2] Luís Barbosa, José Nuno Oliveira, and Alexandra Silva. Calculating invariants as coreflexive bisimulations. In *Proceedings of the 12th International Conference on Algebraic Methodology and Software Technology (AMAST 2008)*, volume 5140 of *Lecture Notes in Computer Science*, pages 83–99, 2008.
- [3] Simon Bliudze, Roberto Bruni, Marco Carbone, and Alexandra Silva, editors. *Proceedings ICE 2011*, volume 59 of *EPTCS*. ArXiv, 2011.
- [4] Simon Bliudze, Roberto Bruni, Marco Carbone, and Alexandra Silva, editors. *Towards Interaction Reliability in Concurrent Applications.*, volume 22 of *Scientific Annals of Computer Science*. University of Iasi, 2012.
- [5] Simon Bliudze, Roberto Bruni, Davide Grohmann, and Alexandra Silva, editors. *Proceedings ICE 2010*, volume 38 of *EPTCS*. ArXiv, 2010.
- [6] Filippo Bonchi, Marcello Bonsangue, Michele Boreale, Jan Rutten, and Alexandra Silva. A coalgebraic perspective on linear weighted automata. Technical Report SEN 11-04, Centrum Wiskunde & Informatica, 2011.
- [7] Filippo Bonchi, Marcello Bonsangue, Michele Boreale, Jan Rutten, and Alexandra Silva. A coalgebraic perspective on linear weighted automata. *Information and Computation*, 211:77–105, 2012.
- [8] Filippo Bonchi, Marcello Bonsangue, Georgiana Caltai, Jan Rutten, and Alexandra Silva. Final semantics for decorated traces. In *Proceedings of the Twenty-eighth Conference on the Mathematical Foundations of Programming Semantics (MFPS 2012)*, volume 286 of *Electronic Notes in Theoretical Computer Science*, pages 73–86, 2012.
- [9] Filippo Bonchi, Marcello Bonsangue, Georgiana Caltai, Jan Rutten, and Alexandra Silva. A coalgebraic view on decorated traces. *Mathematical Structures in Computer Science*, ?(?), 2014.
- [10] Filippo Bonchi, Marcello Bonsangue, Helle Hansen, Prakash Panangaden, Jan Rutten, and Alexandra Silva. Algebra-coalgebra duality in brzozowski’s minimization algorithm. *ACM Transactions on Computational Logic (TOCL)*, 15(1), 2014.

- [11] Filippo Bonchi, Marcello Bonsangue, Jan Rutten, and Alexandra Silva. Deriving syntax and axioms for quantitative regular behaviours. In *Proceedings of the 20th International Conference on Concurrency Theory (CONCUR 2009)*, volume 5710 of *Lecture Notes in Computer Science*, pages 146–162, 2009.
- [12] Filippo Bonchi, Marcello Bonsangue, Jan Rutten, and Alexandra Silva. Brzozowski’s algorithm (co)algebraically. Technical Report SEN 11-14, Centrum Wiskunde & Informatica, 2011.
- [13] Filippo Bonchi, Marcello Bonsangue, Jan Rutten, and Alexandra Silva. Brzozowski’s algorithm (co)algebraically. In *Logic and Program Semantics - Essays Dedicated to Dexter Kozen on the Occasion of His 60th Birthday*, volume 7230 of *Lecture Notes in Computer Science*, pages 12–23, 2012.
- [14] Filippo Bonchi, Georgiana Caltai, Damien Pous, and Alexandra Silva. Brzozowski’s and up-to algorithms for must testing. In *11th Asian Symposium on Programming Languages and Systems (APLAS 2013)*, volume 8301 of *Lecture Notes in Computer Science*, pages 1–16, 2013.
- [15] Filippo Bonchi, Mathias Hülsbusch, Barbara König, and Alexandra Silva. A coalgebraic perspective on minimization, determinization and behavioural metrics. Technical Report SEN 11-06, Centrum Wiskunde & Informatica, 2011.
- [16] Filippo Bonchi, Stefan Milius, Alexandra Silva, and Fabio Zanasi. How to kill epsilons with a dagger – a coalgebraic take on systems with algebraic label structure. In *12th International Workshop on Coalgebraic Methods in Computer Science*, volume 8446 of *Lecture Notes in Computer Science*, pages 53–74, 2014.
- [17] Marcello Bonsangue, Georgiana Caltai, Eugen Goriac, Dorel Lucanu, Jan Rutten, and Alexandra Silva. A decision procedure for bisimilarity of generalized regular expressions. In *Proceedings of the 13th Brazilian Symposium on Formal Methods (SBMF 2010)*, volume 6527 of *Lecture Notes in Computer Science*, pages 226–241, 2010.
- [18] Marcello Bonsangue, Georgiana Caltai, Eugen Goriac, Dorel Lucanu, Jan Rutten, and Alexandra Silva. Automatic equivalence proofs for non-deterministic coalgebras (revised and extended). Technical Report SEN 11-13, Centrum Wiskunde & Informatica, 2011.
- [19] Marcello Bonsangue, Georgiana Caltai, Eugen Goriac, Dorel Lucanu, Jan Rutten, and Alexandra Silva. Automatic equivalence proofs for non-deterministic coalgebras. *Science of Computer Programming*, 78(9):1324–1345, 2013.
- [20] Marcello Bonsangue, Dave Clarke, and Alexandra Silva. Automata for context-dependent connectors. In *Proceedings of the Eleventh International*

Conference on Coordination Models and Languages (Coordination 2009), volume 5521 of *Lecture Notes in Computer Science*, pages 184–203, 2009.

- [21] Marcello Bonsangue, Dave Clarke, and Alexandra Silva. A model of context-dependent component connectors. Technical Report SEN-0903, Centrum Wiskunde & Informatica, 2009.
- [22] Marcello Bonsangue, Dave Clarke, and Alexandra Silva. A model of context-dependent component connectors. *Science of Computer Programming*, 77(6):685–706, 2012.
- [23] Marcello Bonsangue, Stefan Milius, and Alexandra Silva. Sound and complete axiomatizations of coalgebraic language equivalence. *ACM Transactions on Computational Logic (TOCL)*, 14(1), 2013.
- [24] Marcello Bonsangue, Jan Rutten, and Alexandra Silva. Coalgebraic logic and synthesis of mealy machines. Technical Report SEN-0705, Centrum Wiskunde & Informatica, 2007.
- [25] Marcello Bonsangue, Jan Rutten, and Alexandra Silva. Regular expressions for polynomial coalgebras. Technical Report SEN-0703, Centrum Wiskunde & Informatica, 2007.
- [26] Marcello Bonsangue, Jan Rutten, and Alexandra Silva. Coalgebraic logic and synthesis of mealy machines. In *Proceedings of the Eleventh International Conference on Foundations of Software Science and Computation structures (FoSSaCS 2008)*, volume 4962 of *Lecture Notes in Computer Science*, pages 231–245, 2008.
- [27] Marcello Bonsangue, Jan Rutten, and Alexandra Silva. Algebras for kripke polynomial coalgebras. In *Proceedings of the Twenty-Fourth Annual IEEE Symposium on Logic in Computer Science (LICS 2009)*, IEEE, Computer Science Press, pages 49–58, 2009.
- [28] Marcello Bonsangue, Jan Rutten, and Alexandra Silva. A kleene theorem for polynomial coalgebras. In *Proceedings of the Twelfth International Conference on Foundations of Software Science and Computation structures (FoSSaCS 2009)*, volume 5504 of *Lecture Notes in Computer Science*, pages 122–136, 2009.
- [29] Marco Carbone, Ivan Lanese, Alexandra Silva, and Ana Sokolova, editors. *Proceedings ICE 2012*, volume 104 of *EPTCS*. ArXiv, 2012.
- [30] Marco Carbone, Ivan Lanese, Alexandra Silva, and Ana Sokolova, editors. *Special issue with selected contributions of the 5th Interaction and Concurrency Experience.*, volume To appear. of *Science of Computer Programming*. Elsevier, 2014.

- [31] Robert L. Constable and Alexandra Silva, editors. *Logic and Program Semantics - Essays Dedicated to Dexter Kozen on the Occasion of His 60th Birthday*, volume 7230 of *LNCS*. Springer, 2012.
- [32] Joerg Endrullis, Helle Hansen, Dimitri Hendriks, Andrew Polonsky, and Alexandra Silva. A coinductive treatment of infinitary rewriting. *CoRR*, abs/1306.6224, 2013.
- [33] Nate Foster, Dexter Kozen, Matthew Milano, Alexandra Silva, and Laure Thompson. A coalgebraic decision procedure for netkat. In *POPL 2015: 42nd ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, 2014.
- [34] Nate Foster, Dexter Kozen, Matthew Milano, Alexandra Silva, and Laure Thompson. A coalgebraic decision procedure for netkat. Technical Report 1813/36255, Cornell University, 2014.
- [35] Bart Jacobs, Milad Niqui, Jan Rutten, and Alexandra Silva, editors. *Proceedings CMCS 2010*, volume 264 of *ENTCS*. Elsevier, 2010.
- [36] Bart Jacobs, Milad Niqui, Jan Rutten, and Alexandra Silva, editors. *Short Contributions CMCS 2010*, CWI Technical Report SEN-1004. Centrum Wiskunde & Informatica, 2010.
- [37] Bart Jacobs, Milad Niqui, Jan Rutten, and Alexandra Silva, editors. *Special issue CMCS Tenth Anniversary Meeting*, volume 412 of *TCS*. Elsevier, 2011.
- [38] Bart Jacobs and Alexandra Silva. Automata learning: a categorical perspective. In *Horizons of the Mind. A Tribute to Prakash Panangaden.*, volume 8464 of *Lecture Notes in Computer Science*, pages 384–406, 2014.
- [39] Bart Jacobs and Alexandra Silva. Initial algebras of terms, with binding and algebraic structure. In *Categories and Types in Logic, Language and Physics. Festschrift on the occasion of Jim Lambek’s 90th birthday*, volume 8222 of *Lecture Notes in Computer Science*, pages 211–234, 2014.
- [40] Bart Jacobs, Alexandra Silva, and Ana Sokolova. Trace semantics via determinization. In *Proceedings of the 11th International Workshop on Coalgebraic Methods in Computer Science (CMCS 2012)*, volume 7399 of *Lecture Notes in Computer Science*, pages 109–129, 2012.
- [41] Bart Jacobs, Alexandra Silva, and Ana Sokolova. Trace semantics via determinization. *Journal of Computer and System Sciences*, (?), 2014.
- [42] Bart Jacobs, Alexandra Silva, and Sam Staton, editors. *Proceedings of the 30th conference on Mathematical Foundations of Programming Semantics.*, volume 308 of *Electronic Notes in Theoretical Computer Science*. Elsevier, 2014.

- [43] Jean-Baptiste Jeannin, Dexter Kozen, and Alexandra Silva. Cocaml: Programming with coinductive types. Technical Report 1813/30798, Cornell University, 2012.
- [44] Jean-Baptiste Jeannin, Dexter Kozen, and Alexandra Silva. Language constructs for non-well-founded computation. Technical Report SEN 12-02, Centrum Wiskunde & Informatica, 2012.
- [45] Jean-Baptiste Jeannin, Dexter Kozen, and Alexandra Silva. Language constructs for non-well-founded computations. In *22nd European Symposium on Programming, ESOP 2013*, volume 7792 of *Lecture Notes in Computer Science*, pages 61–80, 2013.
- [46] Jean-Baptiste Jeannin, Dexter Kozen, and Alexandra Silva. Well-founded coalgebras, revisited. Technical Report 1813/33330, Cornell University, 2013.
- [47] Jean-Baptiste Jeannin, Dexter Kozen, and Alexandra Silva. Well-founded coalgebras, revisited. *Mathematical Structures in Computer Science*, ?(?), 2014.
- [48] Dexter Kozen and Alexandra Silva. Left-handed completeness. Technical Report 1813/23556, Cornell University, 2011.
- [49] Dexter Kozen and Alexandra Silva. On moessner’s theorem. Technical Report 1813/22959, Cornell University, 2011.
- [50] Dexter Kozen and Alexandra Silva. Left-handed completeness. In *13th International Conference on Relational and Algebraic Methods in Computer Science*, volume 7560 of *Lecture Notes in Computer Science*, pages 162–178, 2012.
- [51] Dexter Kozen and Alexandra Silva. Practical coinduction. Technical Report 1813/30510, Cornell University, 2012.
- [52] Dexter Kozen and Alexandra Silva. On moessner’s theorem. *American Mathematical Monthly*, 120(2):131–139, 2013.
- [53] Dexter Kozen and Alexandra Silva. Practical coinduction. *Mathematical Structures in Computer Science*, ?(?), 2014.
- [54] Stefan Milius, Sergey Goncharov, and Alexandra Silva. Towards a coalgebraic chomsky hierarchy. In *Theoretical Computer Science – 8th IFIP TC 1/WG 2.2 International Conference*, volume 8705 of *Lecture Notes in Computer Science*, pages 265–280, 2014.
- [55] Sonia Ben Mokhtar, Simon Bliudze, Roberto Bruni, Alexandra Silva, and Angelo Troina, editors. *Concurrency and Interaction in Complex Systems (special issue with selected papers of the Discotec’10 workshops)*, volume XXI of *Scientific Annals of Computer Science*. ”Alexandru Ioan Cuza” University of Iasi, 2011.

- [56] Young-Joo Moon, Farhad Arbab, Alexandra Silva, Andries Stam, and Chrétien Verhoef. Stochastic reo: a case study. In *Proceedings of the 5th International Workshop on Harnessing Theories for Tool Support in Software (TTSS '11)*, 2011.
- [57] Young-Joo Moon, Alexandra Silva, Christian Krause, and Farhad Arbab. A compositional semantics for stochastic reo connectors. Technical Report SEN 10-07, Centrum Wiskunde & Informatica, 2010.
- [58] Young-Joo Moon, Alexandra Silva, Christian Krause, and Farhad Arbab. A compositional semantics for stochastic reo connectors. In *Proceedings of the 9th International Workshop on the Foundations of Coordination Languages and Software Architectures (FOCLASA '10)*, volume 30 of *Electronic Proceedings in Theoretical Computer Science*, pages 93–107, 2010.
- [59] Young-Joo Moon, Alexandra Silva, Christian Krause, and Farhad Arbab. A compositional model to reason about end-to-end qos in stochastic reo connectors. *Science of Computer Programming*, 80:3–24, 2014.
- [60] Nuno Oliveira, Alexandra Silva, and Luís Barbosa. Imc-reo: Interactive markov chains for stochastic reo. *Journal of Internet Services and Information Security*, ?(?), 2014.
- [61] Nuno Oliveira, Alexandra Silva, and Luís Barbosa. Quantitative analysis of reo-based service coordination. In *29th Annual ACM Symposium on Applied Computing (ACM SAC)*, volume 2, pages 1247–1254, 2014.
- [62] Jurriaan Rot, Filippo Bonchi, Marcello Bonsangue, Damien Pous, Jan Rutten, and Alexandra Silva. Enhanced coalgebraic bisimulation. *Mathematical Structures in Computer Science*, ?(?), 2014.
- [63] Alexandra Silva. A specification language for reo connectors. In *Proceedings of the Fundamentals of Software Engineering - 4th IPM International Conference (FSEN 2011)*, volume 7141 of *Lecture Notes in Computer Science*, pages 368–376, 2011.
- [64] Alexandra Silva. A specification language for reo connectors. Technical Report SEN 11-02, Centrum Wiskunde & Informatica, 2011.
- [65] Alexandra Silva. Position automata for kleene algebra with tests. *Scientific Annals of Computer Science*, 22(2):367–394, 2012.
- [66] Alexandra Silva, Filippo Bonchi, Marcello Bonsangue, and Jan Rutten. Generalizing the powerset construction, coalgebraically. In *Proceedings of the IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2010)*, volume 8 of *Leibniz International Proceedings in Informatics (LIPIcs)*, pages 272–283, 2010.

- [67] Alexandra Silva, Filippo Bonchi, Marcello Bonsangue, and Jan Rutten. Generalizing the powerset construction, coalgebraically. Technical Report SEN 10-08, Centrum Wiskunde & Informatica, 2010.
- [68] Alexandra Silva, Filippo Bonchi, Marcello Bonsangue, and Jan Rutten. Quantitative kleene coalgebras. *Information and Computation*, 209(5):822–849, 2011.
- [69] Alexandra Silva, Filippo Bonchi, Marcello Bonsangue, and Jan Rutten. Generalizing determinization from automata to coalgebras. *Logical Methods in Computer Science*, 9(1), 2013.
- [70] Alexandra Silva, Marcello Bonsangue, and Jan Rutten. Non-deterministic kleene coalgebras. *Logical Methods in Computer Science*, 6(3):1–39, 2010.
- [71] Alexandra Silva, Marcello Bonsangue, and Jan Rutten. Non-deterministic kleene coalgebras. Technical Report SEN 10-01, Centrum Wiskunde & Informatica, 2010.
- [72] Alexandra Silva and Jan Rutten. Behavioural differential equations and coinduction for binary trees. In *Proceedings of the Workshop on Logic, Language, Information and Computation 2007 (WoLLIC 2007)*, Lecture Notes in Computer Science, pages 322 – 336, 2007.
- [73] Alexandra Silva and Jan Rutten. Behavioural differential equations and coinduction for binary trees. Technical Report SEN-0702, Centrum Wiskunde & Informatica, 2007.
- [74] Alexandra Silva and Jan Rutten. A coinductive calculus of binary trees. Technical Report SEN-0707, Centrum Wiskunde & Informatica, 2007.
- [75] Alexandra Silva and Jan Rutten. A coinductive calculus of binary trees. *Information and Computation*, 208(5):578–593, 2010.
- [76] Alexandra Silva and Pawel Sobocinski. Report on calco 2013. *Bulletin of the EATCS*, 111, 2013.
- [77] Alexandra Silva and Ana Sokolova. Sound and complete axiomatization of trace semantics for probabilistic systems. In *Proceedings of the Twenty-seventh Conference on the Mathematical Foundations of Programming Semantics (MFPS '11)*, volume 276 of *Electronic Notes in Theoretical Computer Science*, pages 291–311, 2011.
- [78] Alexandra Silva and Joost Visser. Strong types for relational databases. In *Proceedings of the 2006 ACM SIGPLAN workshop on Haskell (Haskell '06)*, pages 25–36, 2006.
- [79] Alexandra Silva and Bram Westerbaan. A coalgebraic view of epsilon-transitions. In *CALCO 2013*, volume 8089 of *Lecture Notes in Computer Science*, pages 267–282, 2013.