

Icelandic Centre of Excellence in Theoretical
Computer Science (ICE-TCS)
List of Publications 2005–to date

April 24, 2012

Books

1. L. Aceto, A. Ingólfssdóttir, Kim G. Larsen and J. Srba. *Reactive Systems: Modelling, Specification and Verification*, Cambridge University Press, August 2007. ISBN-13: 9780521875462.
2. S. Kitaev. *Patterns in permutations and words*, to be published by Springer Verlag (EATCS monographs in Theoretical Computer Science book series); ISBN: 978-3-642-17332-5.

Edited Volumes

1. L. Aceto, J. Baeten, W. Fokkink, A. Ingólfssdóttir and U. Nestmann. *Special Issue: IFIP WG1.8 Workshop on Applying Concurrency Research in Industry*. *Journal of Logic and Algebraic Programming* 78(4):191–288, April 2009.
2. L. Aceto, M. Bravetti, W. Fokkink and A.D. Gordon. *Special Issue: Algebraic Process Calculi (The First Twenty Five Years and Beyond)*. *Journal of Logic and Algebraic Programming* 70(2):119–238, February 2007.
3. L. Aceto, M. Bravetti, W. Fokkink and A.D. Gordon. *Special Issue: Algebraic Process Calculi (The First Twenty Five Years and Beyond): Volume 2*. *Journal of Logic and Algebraic Programming* 72(1):1–122, May-June 2007.
4. L. Aceto, M. Bravetti, W. Fokkink and A.D. Gordon. *Special Issue: Algebraic Process Calculi (The First Twenty Five Years and Beyond): Volume 3*. *Journal of Logic and Algebraic Programming* 75(1):1–166 (February-March 2008).

5. L. Aceto, I. Damgård, L.A. Goldberg, M.M. Halldórsson, A. Ingólfssdóttir and I. Walukiewicz. *Automata, Languages and Programming, 35th International Colloquium, ICALP 2008, Reykjavik, Iceland, July 7–11, 2008, Proceedings, Parts I and II*. Lecture Notes in Computer Science volumes 5125 and 5126, Springer-Verlag, July 2008.
6. L. Aceto, Z. Ésik, W. J. Fokkink and A. Ingólfssdóttir. Special issue of *Theoretical Computer Science* devoted to selected papers from *Process Algebra: Open Problems and Future Directions* (July 21–25, 2003, University of Bologna Residential Center, Bertinoro (Forlì), Italy), volume 335(2–3):127–406, 23 May 2005.
7. L. Aceto and A.D. Gordon. *Essays on Algebraic Process Calculi*. Electronic Notes in Theoretical Computer Science 162, pp. 1–340, Elsevier, 29 September 2006.
8. L. Aceto, M. Henzinger and J. Sgall. *Automata, Languages and Programming, 38th International Colloquium, ICALP 2011, Zürich, Switzerland, July 4–8, 2011, Proceedings, Parts I and II*. Lecture Notes in Computer Science volumes 6755 and 6756, Springer-Verlag, July 2011.
9. L. Aceto and A. Ingólfssdóttir. *Foundations of Software Science and Computation Structures: 9th International Conference, FOSSACS 2006, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2006, Vienna, Austria, March 25–31, 2006. Proceedings*, Lecture Notes in Computer Science 3921, Springer-Verlag, March 2006. ISBN: 3-540-33045-3.
10. L. Aceto and A. Ingólfssdóttir. *Foundations of Software Science and Computation Structures: 9th International Conference, FOSSACS 2006: Special Issue*. Journal of Logic and Algebraic Programming 73(1–2): 1–146, September-October 2007.
11. L. Aceto and A. Ingólfssdóttir. *Special Issue: Eighteenth Nordic Workshop on Programming Theory 2006*. Journal of Logic and Algebraic Programming 77(1–2):1–156 (September-October 2008).
12. L. Aceto and A. Ingólfssdóttir. *Special Issue in memory of Nadia Busi of Mathematical Structures in Computer Science*, volume 19(6), pp. 1061–1287, Cambridge University Press, 4 December 2009.
Available at <http://journals.cambridge.org/action/displayIssue?jid=MSC&volumeId=19&issueId=06&iid=6798412>.
13. L. Aceto and M. Mousavi. *Proceedings of the First International Workshop on Process Algebra and Coordination (PACO 2011)*, volume 60 of Electronic Proceedings in Theoretical Computer Science, 6th August 2011. Available at <http://dx.doi.org/10.4204/EPTCS.60>.

14. L. Aceto and P. Sobocinski. *Proceedings of the Seventh Workshop on Structural Operational Semantics*, volume 32 of *Electronic Proceedings in Theoretical Computer Science*, 11th August 2010. Available at <http://dx.doi.org/10.4204/EPTCS.32>.
15. F. Arbab and M. Sirjani. *Fundamentals of Software Engineering, Third IPM International Conference, FSEN 2009, Kish Island, Iran, April 15–17, 2009*, *Lecture Notes in Computer Science* 5961, 2010.
16. C. Demetrescu and Magnús M. Halldórsson. *Proceedings of Algorithms, ESA 2011, 19th Annual European Symposium, Saarbrücken, Germany, September 5–9, 2011*. *Lecture Notes in Computer Science* 6942, Springer-Verlag, 2011.
17. H. Jaap van den Herik, Yngvi Björnsson and Nathan S. Netanyahu. *Computers and Games, Forth International Conference, CG 2004, Ramat-Gan, Israel, July 5-7, 2004, Revised Papers*. *Lecture Notes in Computer Science* 3846, Springer-Verlag, 2006.
18. Anna Ingólfssdóttir, Bud Mishra, Hanne Riis Nielson, and Corrado Priami. *Transactions on Computational Systems Biology VII*, Springer 2006.
19. Pascal Poizat, Marjan Sirjani and Carlos Canal. *Science of Computer Programming* (Special issue on the 7th International Workshop on the Foundations of Coordination Languages and Software Architectures (FO-CLASA 08)), Volume 76, Issue 8, Pages 627-736 (1 August 2011).
20. Einar Steingrímsson. *Annals of Combinatorics*, special issue devoted to selected papers from *Permutation Patterns 2006*, December 2007.

Chapters in Books and Collections

1. L. Aceto, J. Baeten, W. Fokkink, A. Ingólfssdóttir and U. Nestmann. Applying Concurrency Research in Industry: Report on a Strategic Workshop. *Bulletin of the European Association for Theoretical Computer Science* 94:113–129, February 2008.
2. L. Aceto and W. Fokkink. The Quest for Equational Axiomatizations of Parallel Composition: Status and Open Problems, in *Essays on Algebraic Process Calculi* (L. Aceto and A.D. Gordon eds.), *Electronic Notes in Theoretical Computer Science* 162:43–48, Elsevier, 29 September 2006.
3. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir, and B. Luttik. Finite Equational Bases in Process Algebra: Results and Open Questions. *Processes, Terms and Cycles: Steps on the Road to Infinity: Essays Dedicated to Jan Willem Klop on the Occasion of His 60th Birthday* (Aart Middeldorp, Vincent van Oostrom, Femke Raamsdonk, and Roel de Vrijer editors), *Lecture Notes in Computer Science* 3838, pp. 338–367, Springer-Verlag, December 2005. ISBN: 3-540-30911-X.

4. L. Aceto and A. Ingólfssdóttir. Characteristic Formulae: From Automata to Logic. In *The Concurrency Column* (L. Aceto ed.), *Bulletin of the EATCS* 91, pp. 58–75, February 2007.
5. L. Aceto, A. Ingólfssdóttir, M. Mousavi and M. Reniers. Algebraic Properties for Free!. *Bulletin of the European Association for Theoretical Computer Science* 99, October 2009. To appear.
6. L. Aceto, A. Ingólfssdóttir and J. Srba. The Algorithmics of Bisimilarity. In *Bisimulation and Coninduction*, two-volume book edited by J. Rutten and D. Sangiorgi, Cambridge University Press, to appear in 2011.

Journal Papers

1. L. Aceto, A. Birgisson, A. Ingólfssdóttir, M. Mousavi and M. Reniers. Rule Formats for Determinism and Idempotence. To appear in *Science of Computer Programming*, Special Issue devoted to FSEN 2009 (Farhad Arbab and Marjan Sirjani guest editors).
2. L. Aceto, S. Capobianco and A. Ingólfssdóttir. On the Existence of a Finite Base for Complete Trace Equivalence over BPA with Interrupt. *Bulletin of the EATCS* 95:220–240, June 2008. Available at <http://www.eatcs.org/bulletin/beatcs95.pdf>.
3. L. Aceto, S. Capobianco, A. Ingólfssdóttir and B. Luttik. The Equational Theory of Prebisimilarity over Basic CCS with Divergence. *Information Processing Letters* 108:284–289, 26 September 2008 (on-line publication). Available at <http://dx.doi.org/10.1016/j.ipl.2008.05.019>.
4. L. Aceto, T. Chen, W. J. Fokkink and A. Ingólfssdóttir. On the Axiomatizability of Priority. *Mathematical Structures in Computer Science* 18(1):5–28, February 2008. Special issue devoted to LMCS 2006 (Flavio Corradini and Carlo Toffalori eds.).
5. L. Aceto, T. Chen, A. Ingólfssdóttir, B. Luttik and J. van de Pol. On the Axiomatizability of Priority II. To appear in *Theoretical Computer Science*, Elsevier, 2011.
6. L. Aceto, M. Cimini and A. Ingólfssdóttir. A Bisimulation-based Method for Proving the Validity of Equations in GSOS Languages. *Mathematical Structures in Computer Science* 22(2):291–331, 2012, Cambridge University Press.
7. L. Aceto, M. Cimini, A. Ingólfssdóttir, M. Mousavi and M. Reniers. SOS Rule Formats for Zero and Unit Elements. To appear in *Theoretical Computer Science*, Elsevier, 2011.
8. L. Aceto, W. J. Fokkink and A. Ingólfssdóttir. A Cancellation Theorem for BCCSP. *Fundamenta Informaticae* 88(1–2):1–21, 2008.

9. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and B. Luttik. A Finite Equational Base for CCS with Left Merge and Communication Merge. *ACM Transactions on Computational Logic* Volume 10, Number 1, January 2009. Available at <http://doi.acm.org/10.1145/1459010.1459016>.
10. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and MohammadReza Mousavi. Lifting Non-Finite Axiomatizability Results to Extensions of Process Algebras. *Acta Informatica* 47(3):147–177, May 2010.
11. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and S. Nain. Bisimilarity is not Finitely Based over BPA with Interrupt. *Theoretical Computer Science* 366(1–2):60–81, 2006. Special issue devoted to Algebra and Coalgebra in Computer Science (J. Fiadeiro and J. Rutten guest editors).
12. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and B. Luttik. Split-2 Bisimilarity has a Finite Axiomatization over CCS with Hennessy’s Merge. *Logical Methods in Computer Science*, Vol. 1 (1:3), 2005, 12 pages.
13. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and B. Luttik. CCS with Hennessy’s Merge has no Finite Equational Axiomatization. *Theoretical Computer Science* 330(3):377–405, 2005.
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15. L. Aceto and A. Ingólfssdóttir. On the Expressibility of Priority. *Information Processing Letters* 109(1):83–85, 16 December 2008.
16. L. Aceto, A. Ingólfssdóttir, P. B. Levy and J. Sack. Characteristic Formulae for Fixed-Point Semantics: A General Framework. *Mathematical Structures in Computer Science* 22(2):125–173, Cambridge University Press, 2012.
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19. Geir Agnarsson and Magnús Halldórsson. Strongly simplicial vertices of powers of trees. *Discrete Mathematics* 307:2647–2652, 2007.
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22. Eyjolfur Ingi Ásgeirsson and Cliff Stein. Bounded-space online bin cover. *Journal of Scheduling*, Springer Netherlands.
23. S. Avgustinovich, A. Glen, B. V. Halldórsson, S. Kitaev. On shortest crucial words avoiding abelian powers. *Discrete Applied Mathematics* 158:605–607 (2010).
24. S. Avgustinovich, S. Kitaev: On uniquely k -determined permutations, *Discrete Mathematics* **308** (2008), 1500–1507.
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30. M. Bousquet-Mélou, A. Claesson, M. Dukes, and S. Kitaev. $(2 + 2)$ -free posets, ascent sequences and pattern avoiding permutation. *Journal of Combinatorial Theory, Series A* 117:884–1867, 2010.
31. M. Bousquet-Mélou and E. Steingrímsson: Decreasing subsequences in permutations and Wilf equivalence for involutions, *J. Algebraic Combin.* 22:383–409, 2005.
32. M. Bucci, A. De Luca, A. Glen, L.Q. Zamboni. A connection between palindromic and factor complexity using return words. *Advances in Applied Mathematics* 42:60–74, 2009.

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