

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

October 9, 2018

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, Giorgio Bacci, Giovanni Bacci, A. Ingólfssdóttir, A. Legay and R. Mardare. *Models, Algorithms, Logics and Tools — Essays Dedicated to Kim Guldstrand Larsen on the Occasion of His 60th Birthday*. Lecture Notes in Computer Science 10460, August 2017.
2. 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.
3. L. Aceto and L. Birkedal. *Special Issue: Selected papers of the conference on “Foundations of Software Science and Computation Structures”*: FOS-SACS 2012, Tallinn, Estonia, 2012. *Logical Methods in Computer Science*, 2013. Available at <http://www.lmcs-online.org/ojs/specialIssues.php?id=49>.
4. 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.

5. 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.
6. 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).
7. 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.
8. L. Aceto and D. de Frutos Escrig. Proceedings of the 26th International Conference on Concurrency Theory (CONCUR’15). LIPIcs — Leibniz International Proceedings in Informatics Vol. 42, pages i–xiv and 1–510, 2015.
9. L. Aceto and D. de Frutos Escrig. Special issue: Selected papers from the 26th International Conference on Concurrency Theory (CONCUR 2015). Acta Informatica 54(1):1–125, February 2017.
10. L. Aceto and D. de Frutos Escrig. Special issue: Selected papers from the 26th International Conference on Concurrency Theory (CONCUR 2015). Acta Informatica 54(2):127–242, March 2017.
11. L. ACETO AND D. DE FRUTOS ESCRIG. Special issue: Selected papers from the 26th International Conference on Concurrency Theory (CONCUR 2015). Acta Informatica 54(3):243–341, May 2017.
12. 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.
13. L. Aceto, I. Fabregas, A. Garcia-Pérez and A. Ingólfssdóttir Proceedings of the 27th Nordic Workshop on Programming Theory, NWPT 2015. Technical Report RUTR-SCS16001, School of Computer Science, Reykjavik University, February 2016.
14. L. Aceto, A. Francalanza and A. Ingólfssdóttir. Proceedings First Workshop on Pre- and Post-Deployment Verification Techniques, PrePost 2016. Electronic Proceedings in Theoretical Computer Science 208, 25 May 2016.

15. 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.
16. 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.
17. L. Aceto, M. Henzinger and J. Sgall. Special Issue Devoted to Selected Papers from Automata, Languages and Programming, 38th International Colloquium, ICALP 2011. *Information and Computation* 222, pages 1–306, Elsevier, January 2013.
18. 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.
19. 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.
20. 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).
21. 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>.
22. L. Aceto and A. Ingólfssdóttir. 27th Nordic Workshop on Programming Theory (NWPT 2015). Journal of Logical and Algebraic Methods in Programming, Virtual Special Issue, February 2017.
23. 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>.
24. 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>.

25. 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.
26. Amotz Bar-Noy, Thomas Erlebach, Magnus M. Halldórsson, Sotiris Nikoletseas and Pekka Orponen. *Algorithms for Sensor Systems, Wireless Ad Hoc Networks and Autonomous Mobile Entities*, Theoretical Computer Science 553:1–114, 9 October 2014.
27. A. Bar-Noy, M. M. Halldórsson (Eds). *Algorithmic Aspects of Wireless Sensors Networks, ALGOSENSORS 2012, Ljubljana, Slovenia, October 13-14, 2012*. Springer LNCS # 7718. <http://dx.doi.org/10.1007/978-3-642-36092-3>
28. 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.
29. C. Demetrescu and Magnús M. Halldórsson. *Special Issue: Algorithm Design and Analysis, Algorithmica* 67(2):444–565, December 2013.
30. G. Even, M. M. Halldórsson (Eds). *Structural Information and Communication Complexity, 19th International Colloquium, SIROCCO 2012, Reykjavik, Iceland, June 30 – July 2, 2012*. Springer LNCS # 7355.
31. G. Even, M. M. Halldórsson (Eds). *Structural Information and Communication Complexity. Theoretical Computer Science, Volume 610, Part B, Pages 133–218, 11 January 2016*.
32. M. M. Halldórsson (Ed). *Structural Information and Communication Complexity, 21st International Colloquium, SIROCCO 2014, Takayama, Japan, July 23–25, 2014*. Springer LNCS # 8576.
33. M. M. Halldórsson (Ed). *Structural Information and Communication Complexity. Theoretical Computer Science, Volume 608, Part 3, Pages 199–282, 10 December 2015*.
34. Magnús M. Halldórsson, Shlomi Dolev (Eds.) *ACM Symposium on Principles of Distributed Computing, PODC '14, Paris, France, July 15-18, 2014*. ACM 2014, ISBN 978-1-4503-2944-6
35. M. M. Halldórsson, Kazuo Iwama, Naoki Kobayashi, Bettina Speckmann (Eds.) *ICALP 2015, Kyoto, Japan, July 5-11, 2015, Proceedings, Part I: Track A: Algorithms, Automata, Complexity, and Games*. Springer LNCS # 9134, 2015.
36. M. M. Halldórsson, Kazuo Iwama, Naoki Kobayashi, Bettina Speckmann (Eds.) *ICALP 2015, Kyoto, Japan, July 5-11, 2015, Proceedings, Part II: Tracks B and C: Logic and Semantics; Foundations of Networked Computation* Springer LNCS # 9135, 2015.

37. 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.
38. Anna Ingólfssdóttir, Bud Mishra, Hanne Riis Nielson, and Corrado Priami. *Transactions on Computational Systems Biology VII*, Springer 2006.
39. 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 (FOCLASA 08)), Volume 76, Issue 8, Pages 627-736 (1 August 2011).
40. 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, A. Garcia-Pérez and A. Ingólfssdóttir. Rule formats for bounded nondeterminism in structural operational semantics. To appear as a chapter contribution to a Festschrift to be published by Springer-Verlag, 2016.
5. L. Aceto, M. M. Halldórsson and A. Ingólfssdóttir. Report on two events at ICE-TCS, Reykjavik University, *Bulletin of the EATCS* 114, October 2014. <http://eatcs.org/beatcs/index.php/beatcs/article/view/301>
6. 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.

7. 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.
8. 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.
9. Guy Even, Magnus M. Halldórsson, Yvonne Anne Pignolet, Christian Scheideler. Algorithms for Wireless Communication. Report on Dagstuhl Seminar 14051. Dagstuhl DROPS <http://dx.doi.org/10.4230/DagRep.4.1.152>, 2014.
10. Magnús M. Halldórsson and Calvin Newport Making Wireless Algorithm Theory More Useful. *ACM SIGACT News* 45(3):72–74, September 2014.

Journal Papers

1. Luca Aceto, Antonis Achilleos, Adrian Francalanza, Anna Ingólfssdóttir and Karoliina Lehtinen. Adventures in Monitorability: From Branching to Linear Time and Back Again. To appear in the Proceedings of 46th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL 2019), ACM journal Proceedings of the ACM on Programming Languages (PACMPL), January 2019. To appear.
2. L. Aceto, A. Birgisson, A. Ingólfssdóttir, M. Mousavi and M. Reniers. Rule Formats for Determinism and Idempotence. *Science of Computer Programming* 77(7–8):889–907, Selected Papers from Fundamentals of Software Engineering (FSEN’09) (Farhad Arbab and Marjan Sirjani guest editors), Elsevier, 2012.
3. 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>.
4. 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>.
5. 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.).
6. L. Aceto, T. Chen, A. Ingólfssdóttir, B. Luttik and J. van de Pol. On the Axiomatizability of Priority II. *Theoretical Computer Science* 412(28):3035–3044, Elsevier, 2011.

7. 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.
8. L. Aceto, M. Cimini, A. Ingólfssdóttir, M. Mousavi and M. Reniers. SOS Rule Formats for Zero and Unit Elements. *Theoretical Computer Science* 412(28):3045–3071, Elsevier, 2011.
9. L. Aceto, M. Cimini, A. Ingólfssdóttir, M. Mousavi and M. Reniers. Rule Formats for Distributivity. Rule Formats for Distributivity. *Theoretical Computer Science* 458:1–28, Elsevier, 2012.
10. L. Aceto, I. Fabregas, D. de Frutos Escrig, A. Ingólfssdóttir and M. Palomino. On the specification of modal systems: a comparison of three frameworks. *Science of Computer Programming* 78:2468–2487, Elsevier, 2013.
11. L. Aceto, I. Fabregas, A. Garcia-Pérez and A. Ingólfssdóttir. A unified rule format for bounded nondeterminism in SOS with terms as labels. *Journal of Logical and Algebraic Methods in Programming*, Special issue on Metamodels for Process Languages (Thomas Hildebrandt and Marino Miculan eds.), Elsevier, 2017. To appear.
12. L. Aceto, D. de Frutos-Escrig and A. Ingólfssdóttir. Trace simulation semantics is not finitely based over BCCSP. *Acta Cybernetica* 83(1):81–90, 2017.
13. L. Aceto, W. J. Fokkink and A. Ingólfssdóttir. A Cancellation Theorem for BCCSP. *Fundamenta Informaticae* 88(1–2):1–21, 2008.
14. 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>.
15. 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.
16. 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).
17. 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.

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23. L. Aceto and A. Ingólfssdóttir. On the Expressibility of Priority. *Information Processing Letters* 109(1):83–85, 16 December 2008.
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26. Geir Agnarsson, Ágúst Egilsson, Magnús Halldórsson. Vertex coloring acyclic digraphs and their corresponding hypergraphs. *Discrete Applied Mathematics* 156(10):1918–1928, 2008.
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29. Geir Agnarsson, Magnús M. Halldórsson and Elena Losievskaja. SDP-based algorithms for maximum independent set problems on hypergraphs. *Theoretical Computer Science* 470:1–9, 28 January 2013.

30. Tatsuya Akutsu, Daiji Fukagawa, Magnús M. Halldórsson, Atsuhiko Takasu and Keisuke Tanaka. Approximation and Parameterized Algorithms for Common Subtrees and Edit Distance between Unordered Trees. *Theoretical Computer Science* 470:10–22, 28 January 2013.
31. Yusuke Aoki, Bjarni V. Halldórsson, Magnús M. Halldórsson, Takehiro Ito, Christian Konrad and Xiao Zhou. The minimum vulnerability problem on specific graph classes. *Journal of Combinatorial Optimization* **32**(4):1288–1304, 2016.
32. Eyjolfur Ingi Ásgeirsson and Cliff Stein. Divide-and-Conquer Approximation Algorithm for Vertex Cover. *SIAM Journal on Discrete Mathematics* 23(3):1261–1280, 2009.
33. Eyjolfur Ingi Ásgeirsson and Cliff Stein. Bounded-space online bin cover. *Journal of Scheduling*, Springer Netherlands.
34. S. Avgustinovich, A. Glen, B. V. Halldórsson, S. Kitaev. On shortest crucial words avoiding abelian powers. *Discrete Applied Mathematics* 158:605–607 (2010).
35. S. Avgustinovich, S. Kitaev: On uniquely k -determined permutations, *Discrete Mathematics* **308** (2008), 1500–1507.
36. S. Avgustinovich, S. Kitaev, A. Pyatkin, and A. Valyuzhenich. On square-free permutations. *Journal of Automata, Languages and Combinatorics*. To appear.
37. Unnar Th. Bachmann, Magnús M. Halldórsson, Hadas Shachnai. Online selection of intervals and t -intervals. *Information and Computation* 233:1–11, December 2013.
38. J. Bang-Jensen and M. Halldórsson. Vertex coloring edge-weighted digraphs. *Information Processing Letters* **115**(10):791–796, October 2015.
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41. C. Bean, A. Claesson and H. Úlfarsson. Enumerations of Permutations Simultaneously Avoiding a Vincular and a Covincular Pattern of Length 3 *Journal of Integer Sequences* (2017), no. 7, Art. 17.7.6, 25 pp.

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