

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

June 8, 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. 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.
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. *Theoretical Computer Science* 412(28):3035–3044, 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. *Theoretical Computer Science* 412(28):3045–3071, Elsevier, 2011.
8. 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.
9. 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.
10. 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.
11. 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.
12. L. Aceto, W. J. Fokkink and A. Ingólfssdóttir. A Cancellation Theorem for BCCSP. *Fundamenta Informaticae* 88(1–2):1–21, 2008.
13. 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>.
14. 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.
15. 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).
16. 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.
17. 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.
18. L. Aceto, D. de Frutos Escrig, C. Gregorio-Rodríguez and A. Ingólfssdóttir. Complete and ready simulation semantics are not finitely based over BCCSP, even with a singleton alphabet. *Information Processing Letters* 111(9):408–413, 2011.

19. L. Aceto, D. de Frutos Escrig, C. Gregorio-Rodriguez and A. Ingólfssdóttir. Axiomatizing Weak Simulation Semantics over BCCSP. Axiomatizing Weak Simulation Semantics over BCCSP. *Theoretical Computer Science* 537:42–71, Elsevier, 5 June 2014.
20. L. Aceto, E. Goriac and A. Ingólfssdóttir. SOS Rule Formats for Idempotent Terms and Idempotent Unary Operators. *Journal of Logic and Algebraic Programming* 83(1):64–80, Elsevier, January 2014.
21. L. Aceto, E. Goriac and A. Ingólfssdóttir. A Ground-Complete Axiomatization of Stateless Bisimilarity over Linda. *Information Processing Letters*, Elsevier. To appear.
22. L. Aceto and A. Ingólfssdóttir. On the Expressibility of Priority. *Information Processing Letters* 109(1):83–85, 16 December 2008.
23. 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.
24. L. Aceto, A. Ingólfssdóttir and J. Sack. Resource bisimilarity and graded bisimilarity coincide. *Information Processing Letters* 111(2):68–76, 2010.
25. Geir Agnarsson, Ágúst Egilsson, Magnús Halldórsson. Vertex coloring acyclic digraphs and their corresponding hypergraphs. *Discrete Applied Mathematics* 156(10):1918–1928, 2008.
26. Geir Agnarsson and Magnús Halldórsson. Strongly simplicial vertices of powers of trees. *Discrete Mathematics* 307:2647–2652, 2007.
27. Geir Agnarsson and Magnús M. Halldórsson. Vertex coloring the square of outerplanar graphs of low degree. *Discussiones Mathematicae Graph Theory* 30(4):619–636, 2010.
28. 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.
29. 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.
30. 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.



31. Eyjolfur Ingi Ásgeirsson and Cliff Stein. Divide-and-Conquer Approximation Algorithm for Vertex Cover. *SIAM Journal on Discrete Mathematics* 23(3):1261–1280, 2009.
32. Eyjolfur Ingi Ásgeirsson and Cliff Stein. Bounded-space online bin cover. *Journal of Scheduling*, Springer Netherlands.
33. S. Avgustinovich, A. Glen, B. V. Halldórsson, S. Kitaev. On shortest crucial words avoiding abelian powers. *Discrete Applied Mathematics* 158:605–607 (2010).
34. S. Avgustinovich, S. Kitaev: On uniquely  $k$ -determined permutations, *Discrete Mathematics* **308** (2008), 1500–1507.
35. S. Avgustinovich, S. Kitaev, A. Pyatkin, and A. Valyuzhenich. On square-free permutations. *Journal of Automata, Languages and Combinatorics*. To appear.
36. Unnar Th. Bachmann, Magnús M. Halldórsson, Hadas Shachnai. Online selection of intervals and  $t$ -intervals. *Information and Computation* 233:1–11, December 2013.
37. J. Bang-Jensen and M. Halldórsson. Vertex coloring edge-weighted digraphs. *Information Processing Letters* **115**(10):791–796, October 2015.
38. Reuven Bar-Yehuda, Seffi Naor, Magnús M. Halldórsson, Hadas Shachnai, and Irina Shapira. Scheduling Split Intervals. *SIAM Journal on Computing*, 36(1):1–15, 2006.
39. Thomas Bataillon, Thomas Mailund, Steinunn Thorlacius, Eiríkur Steingrímsson, Thorunn Rafnar, Magnús M. Halldórsson, Violeta Calian, Mikkel H. Schierup. The effective size of the Icelandic population inferred from unphased microsatellite markers and the prospects for LD mapping. *European Journal of Human Genetics*, Advance online publication 31 May 2006; doi: 10.1038/sj.ejhg.5201669
40. 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.
41. C. Bean, B. Gudmundsson and H. Úlfarsson. Automatic discovery of structural rules of permutation classes. *Mathematics of Computations*, American Mathematical Society, 2018. To appear.
42. C. Bean, M. Tannock and H. Úlfarsson. Pattern avoiding permutations and independent sets in graphs. *Journal of Combinatorics*, 2018. To appear.
43. Yngvi Björnsson and Hilmar Finnsson. CadiaPlayer: A Simulation-Based General Game Player. *IEEE Transactions on Computational Intelligence and AI in Games* 1(1):4–15, 2009.

44. M. Bonsangue, G. Caltais, E. I. Goriac, D. Lucanu, J. Rutten and A. Silva. Automatic equivalence proofs for non-deterministic coalgebras. To appear in *Science of Computer Programming*, Elsevier.
45. 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.
46. M. Bousquet-Mélou and E. Steingrímsson: Decreasing subsequences in permutations and Wilf equivalence for involutions, *J. Algebraic Combin.* 22:383–409, 2005.
47. D. Bresolin, D. Della Monica, A. Montanari, P. Sala and G. Sciavicco. Interval temporal logics over strongly discrete linear orders: Expressiveness and complexity. *Theoretical Computer Science* 560(3):269–291, Elsevier, 2014.
48. D. Bresolin, D. Della Monica, A. Montanari, and G. Sciavicco. The Light Side of Interval Temporal Logic: the Bernays-Schönfinkel fragment of CDT. *Annals of Mathematics and Artificial Intelligence (AMAI)* 71(1–3):11–39, Springer-Verlag, 2013.
49. D. Bresolin, D. Della Monica, V. Goranko, A. Montanari and G. Sciavicco. The dark side of Interval Temporal Logic: marking the undecidability border. *Annals of Mathematics and Artificial Intelligence (AMAI)* 71(1–3):41–83, 2014.
50. D. Bresolin, D. Della Monica, V. Goranko, A. Montanari and G. Sciavicco. Metric Propositional Neighborhood Logics on Natural Numbers. *Software and Systems Modeling (SoSyM)*, 12(2):245–264, 2013.
51. 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.
52. M. Bucci, A. de Luca, A. De Luca, L.Q. Zamboni. On  $\theta$ -episturmian words. *European Journal of Combinatorics* 30:473–479, 2009.
53. M. Bucci, A. de Luca, A. De Luca, L.Q. Zamboni. On different generalizations of episturmian words. *Theoretical Computer Science* 393:23–36, 2008.
54. M. Bucci, A. de Luca, A. De Luca, L.Q. Zamboni. On some problems related to palindrome closure. *Theor. Inform. Appl. (RAIRO)* 42:679–701, 2008.
55. M. Bucci, A. De Luca, A. Glen, L.Q. Zamboni. A new characteristic property of rich words. *Theoretical Computer Science* 410(30–32):2860–2863, 2009.

56. Vadim Bulitko and Yngvi Björnsson and Ramon Lawrence. Case-Based Subgoalng in Real-Time Heuristic Search for Video Game Pathfinding. *Journal of Artificial Intelligence Research (JAIR)* 39:269–300, 2010.
57. Vadim Bulitko, Mitja Luštrek, Jonathan Schaeffer, Yngvi Björnsson and Sverrir Sigmundarson. Dynamic Control in Real-Time Heuristic Search. *Journal of Artificial Intelligence Research (JAIR)*, AAAI Press, 2008. To appear.
58. A. Burstein, S. Kitaev: On unavoidable sets of word patterns, *SIAM Journal on Discrete Mathematics* **19** (2005) 2, 371–381.
59. A. Burstein, S. Kitaev: Partially ordered patterns and their combinatorial interpretations, *Pure Mathematics and Applications (P.U.M.A.)* 19(2–3):27–38, 2008.
60. A. Burstein, S. Kitaev, T. Mansour: Independent sets in certain classes of (almost) regular graphs, *Pure Mathematics and Applications (P.U.M.A.)* 19(2–3):17–26, 2008.
61. S. Capobianco. Surjunctivity for cellular automata in Besicovitch spaces. To appear in the *Journal of Cellular Automata*.
62. S. Capobianco. Cellular automata over semi-direct product groups: reduction and invertibility results. *International Journal of Algebra and Computation* 16:1071–1085, 2006.
63. S. Capobianco. Multidimensional cellular automata and generalization of Fekete’s lemma. *Discrete Mathematics and Theoretical Computer Science* 10(3):95–104, 2008. Available at <http://www.dmtcs.org/dmtcs-ojs/index.php/dmtcs/article/view/730>.
64. S. Capobianco. Induced Subshifts and Cellular Automata. To appear in *Information and Computation*.
65. Daniele Catanzaro, Steven Chaplick, Stefan Felsner, Bjarni V. Halldórsson, Magnús M. Halldórsson, Thomas Hixon and Juraj Stacho. Max point-tolerance graphs. *Discrete Applied Mathematics* **216**(1):84–97, January 2017.
66. Daniele Catanzaro, Martine Labbé and Bjarni Halldorsson. A Mixed Integer Programming Model for the Parsimonious Loss of Heterozygosity Problem. *IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)*, November 2012.
67. Q. Chen, S. Marcus and H. Úlfarsson. Very Twisted Stable Maps. To appear in *Communications in Analysis and Geometry*, Volume 18, Number 4, 2010.

68. G. Chockler, G. Laden and Y. Vigfusson. Design and Implementation of Caching Services in the Cloud. *IBM Journal of Research and Development* 55(4), December 2011.
69. A. Claesson. Counting segmented permutations using bicoloured dyck paths. *The Electronic Journal of Combinatorics*, 12(#R39), 2005.
70. A. Claesson, M. Dukes and S. Kitaev. A direct encoding of Stoimenow's matchings as ascent sequences. *Australasian Journal of Combinatorics*, to appear.
71. A. Claesson, M. Dukes and E. Steingrímsson. Permutations sortable by  $n - 4$  passes through a stack. *Annals of Combinatorics* 14:45–51, 2010.
72. A. Claesson, V. Jelinek, E. Jelinkova and S. Kitaev. Pattern avoidance in partial permutations. *Electronic Journal of Combinatorics*, to appear.
73. Fan Chung, Anders Claesson, Mark Dukes and Ronald Graham Descent polynomials for permutations with bounded drop size. *European Journal of Combinatorics* 31:1853–1867, 2010.
74. A. Claesson and S. Kitaev. Classification of bijections between 321- and 132-avoiding permutations. *Seminaire Lotharingien de Combinatoire* B60d (2008), 30 pp.
75. A. Claesson, S. Kitaev, K. Ragnarsson and B.E. Tenner. Boolean complexes for Ferrers graphs. *The Australasian Journal of Combinatorics* 48:159–173, 2010.
76. A. Claesson, S. Kitaev and E. Steingrímsson. Decompositions and statistics for  $\beta(1, 0)$ -trees and nonseparable permutations. *Advances in Applied Mathematics* 42:313–328, 2009.
77. A. Claesson and S. Linusson.  $n!$  matchings,  $n!$  posets. *Proceedings of the American Mathematical Society*, 2010.
78. A. Claesson and T. Mansour. Enumerating permutations avoiding a pair of Babson-Steingrímsson patterns. *Ars Combin.*, 77:17–31, 2005.
79. A. Claesson and T. K. Petersen. Conway's napkin problem. *Amer. Math. Monthly*, 114(3):217–231, 2007.
80. A. Claesson, B. Tenner and H. Ulfarsson. Coincidence among families of mesh patterns. *The Australasian Journal of Combinatorics 2015*, Volume 63 Part 1 (2015).
81. Pierluigi Crescenzi, Pierre Frainaud, Magnus Halldorsson, Hovhannes A. Harutyunyan, Chiara Pierucci, Andrea Pietracaprina and Geppino Pucci. On the complexity of the shortest-path broadcast problem. *Discrete Applied Mathematics* **199**:101–109, 30 January 2016.

82. Ágnes Cseh, David F. Manlove: Stable Marriage and Roommates problems with restricted edges: Complexity and approximability. *Discrete Optimization* 20:62–89, 2016.
83. Artur Czumaj, Magnús M. Halldórsson, Andrzej Lingas, and Johan Nilsson. Approximation algorithms for optimization problems in graphs with superlogarithmic treewidth. *Information Processing Letters*, 2005. **94**(2):49–53, 30 April 2005.
84. F. David, M. Dukes, T. Jónsson and S.O. Stefánsson. Random tree growth by vertex splitting. *Journal of Statistical Mechanics*, no. 4, P04009, 2009.
85. De La Vega FM, Isaac H, Collins A, Scafe CR, Halldórsson BV, Su X, Lippert RA, Wang Y, Laig-Webster M, Koehler RT, Ziegler JS, Wogan LT, Stevens JF, Leinen KM, Olson SJ, Guegler KJ, You X, Xu LH, Hemken HG, Kalush F, Itakura M, Zheng Y, de Thé G, O’Brien SJ, Clark AG, Istrail S, Hunkapiller MW, Spier EG, Gilbert DA. The linkage disequilibrium maps of three human chromosomes across four populations reflect their demographic history and a common underlying recombination pattern. *Genome Res.* 15(4):454-462, 2005.
86. D. Della Monica, V. Goranko, A. Montanari, and G. Sciavicco. Crossing the Undecidability Border with Extensions of Propositional Neighborhood Logic over Natural Numbers. *Journal of Universal Computer Science (JUCS)*, 18(20):2798–2831, 2012.
87. A. de Luca, A. Glen, L.Q. Zamboni. Rich, Sturmian, and trapezoidal words. *Theoretical Computer Science* 407:569–573, 2008.
88. A. de Luca and L.Q. Zamboni. On graphs of central episturmian words. *Theoretical Computer Science* 411(1):70–90, 1 January 2010.
89. A. de Luca and L.Q. Zamboni. Involutions of central episturmian words. *European Journal of Combinatorics* 31 (2010), p. 867–886.
90. E. Deutsch, S. Kitaev, and J. Remmel. Equidistribution of descents, adjacent pairs, and place-value pairs on permutations. *Journal of Integer Sequences* 12 (2009), Article 09.5.1, 19pp.
91. W. M. B. Dukes, Permutation statistics on involutions, *European Journal of Combinatorics* **28** (2007), no. 1, 186–198.
92. W. M. B. Dukes, Concerning the shape of a geometric lattice, *Discrete Mathematics*, to appear 2008.
93. W. M. B. Dukes, M. F. Flanagan, T. Mansour and V. Vajnovszki, Combinatorial Gray codes for classes of pattern avoiding permutations, *Theoretical Computer Science* 396(1–3):35–49, May 2008.

94. W. M. B. Dukes, Vít Jelínek, Toufik Mansour and Astrid Reifegerste, New equivalences for pattern avoiding involutions, *Proceedings of the American Mathematical Society*, to appear 2008.
95. W. M. B. Dukes, S. Kitaev, J. Remmel and E. Steingrímsson. Enumerating  $(2+2)$ -free posets by indistinguishable elements. To appear in *Journal of Combinatorics*, 2011.
96. W. M. B. Dukes and Toufik Mansour, Signed involutions avoiding 2-letter signed patterns, *Annals of Combinatorics*, **11** (2007), no. 3-4, 387–403.
97. W. M. B. Dukes, T. Mansour and A. Reifegerste, Wilf classification of three and four letter signed patterns, *Discrete Mathematics*, to appear 2008.
98. W. M. B. Dukes and R. Parviainen. Ascent sequences and upper triangular matrices containing non-negative integers. *Electronic Journal of Combinatorics* 17(1) (2010), R53 (16pp). [http://www.combinatorics.org/Volume\\_17/Abstracts/v17i1r53.html](http://www.combinatorics.org/Volume_17/Abstracts/v17i1r53.html).
99. D. Durand, B.V. Halldórsson, B. Vernot. A hybrid micro-macroevolutionary approach to gene tree reconstruction. *Journal of Computational Biology* 13(2):320-335, 2006.
100. Yuval Emek, Magnús M. Halldórsson, Yishay Mansour, Boaz Patt-Shamir, Jaikumar Radhakrishnan, Dror Rawitz. Online set packing. *SIAM Journal of Computing*, 41(4):728–746, 2012.
101. Yuval Emek, Magnús M. Halldórsson, Adi Rosen. Space-Constrained Interval Selection. *ACM Transactions on Algorithms (TALG)* **12**(4), September 2016.
102. Leah Epstein, Magnús M. Halldórsson, Asaf Levin, Hadas Shachnai. Weighted Sum Coloring in Batch Scheduling of Conflicting Jobs. *Algorithmica* 55(4):643–665, Dec 2009.
103. J Evangelou, E; Chapman, K; Meulenbelt, I; Karassa, FB; Loughlin, J; Carr, A; Doherty, M; Doherty, S; Gomez-Reino, JJ; Gonzalez, A; Halldors-son, BV; Hauksson, VB; Hofman, A; Hart, DJ; Ikegawa, S; Ingvarsson, T; Jiang, Q; Jonsdottir, I; Jonsson, H; Kerkhof, HJM; Kloppenburg, M; Lane, NE; Li, J; Lories, RJ; van Meurs, JBJ; Nakki, A; Nevitt, MC; Rodriguez-Lopez, J; Shi, DQ; Slagboom, E; Stefansson, K; Tsezou, A; Wallis, GA; Watson, CM; Spector, TD; Uitterlinden, AG; Valdes, AM; Ioannidis, JPA. Large-Scale Analysis of Association Between GDF5 and FRZB Variants and Osteoarthritis of the Hip, Knee, and Hand. *ARTHRITIS AND RHEUMATISM*, JUN, 2009, 60, 1710-1721.
104. Evangelou E, Valdes AM, Kerkhof HJ, Stykarsdottir U, Zhu Y, Meulenbelt I, Lories RJ, Karassa FB, Tylzanowski P, Bos SD; arcOGEN Consortium, Akune T, Arden NK, Carr A, Chapman K, Cupples LA, Dai

- J, Deloukas P, Doherty M, Doherty S, Engstrom G, Gonzalez A, Hall-dorsson BV, Hammond CL, Hart DJ, Helgadottir H, Hofman A, Ikegawa S, Ingvarsson T, Jiang Q, Jonsson H, Kaprio J, Kawaguchi H, Kisand K, Kloppenburg M, Kujala UM, Lohmander LS, Loughlin J, Luyten FP, Mabuchi A, McCaskie A, Nakajima M, Nilsson PM, Nishida N, Ollier WE, Panoutsopoulou K, van de Putte T, Ralston SH, Rivadeneira F, Saarela J, Schulte-Merker S, Shi D, Slagboom PE, Sudo A, Tamm A, Tamm A, Thorleifsson G, Thorsteinsdottir U, Tsezou A, Wallis GA, Wilkinson JM, Yoshimura N, Zeggini E, Zhai G, Zhang F, Jonsdottir I, Uitterlinden AG, Felson DT, van Meurs JB, Stefansson K, Ioannidis JP, Spector TD. Meta-analysis of genome-wide association studies confirms a susceptibility locus for knee osteoarthritis on chromosome 7q22. *Translation Research in Europe Applied Technologies for Osteoarthritis (TreatOA)*. *Ann Rheum Dis*. 10 November 2010.
105. Evangelou E, Valdes AM, Kerkhof HJ, Styrkarsdottir U, Zhu Y, Meulendbelt I, Lories RJ, Karassa FB, Tylzanowski P, Bos SD; arcOGEN Consortium, Akune T, Arden NK, Carr A, Chapman K, Cupples LA, Dai J, Deloukas P, Doherty M, Doherty S, Engstrom G, Gonzalez A, Hall-dorsson BV, Hammond CL, Hart DJ, Helgadottir H, Hofman A, Ikegawa S, Ingvarsson T, Jiang Q, Jonsson H, Kaprio J, Kawaguchi H, Kisand K, Kloppenburg M, Kujala UM, Lohmander LS, Loughlin J, Luyten FP, Mabuchi A, McCaskie A, Nakajima M, Nilsson PM, Nishida N, Ollier WE, Panoutsopoulou K, van de Putte T, Ralston SH, Rivadeneira F, Saarela J, Schulte-Merker S, Shi D, Slagboom PE, Sudo A, Tamm A, Tamm A, Thorleifsson G, Thorsteinsdottir U, Tsezou A, Wallis GA, Wilkinson JM, Yoshimura N, Zeggini E, Zhai G, Zhang F, Jonsdottir I, Uitterlinden AG, Felson DT, van Meurs JB, Stefansson K, Ioannidis JP, Spector TD. Meta-analysis of genome-wide association studies confirms a susceptibility locus for knee osteoarthritis on chromosome 7q22. *Translation Research in Europe Applied Technologies for Osteoarthritis (TreatOA)*. *Ann Rheum Dis*. 2010 November 10. [Epub ahead of print]PMID: 21068099
106. Guy Even, Magnús M. Halldórsson, Lotem Kaplan, Dana Ron. Scheduling with Conflicts: Online and Offline Algorithms. *J. Scheduling*, 12(2):199-224, April 2009.
107. S. Ferenczi and L. Q. Zamboni. Language of  $k$ -interval exchange transformations. *Bulletin of the London Mathematical Society* 40:705–714, 2008.
108. S. Ferenczi and L. Q. Zamboni. Structure of  $k$ -interval exchange transformations: induction, trajectories, and distance theorems. *Journal d'Analyse Mathématique*, to appear in 2010.
109. Hilmar Finnsson and Yngvi Björnsson. CadiaPlayer: Search Control Techniques. *KI Journal*, Springer-Verlag, 2010. IN press.

110. Pierre Fraigniaud, Magnús M. Halldórsson, Boaz Patt-Shamir, Dror Rawitz and Adi Rosén. Shrinking Maxima, Decreasing Costs: New Online Packing and Covering Problems. *Algorithmica* 74(4):1205–1223, April 2016.
111. A. Francalanza, L. Aceto and A. Ingólfssdóttir. Monitorability for the Hennessy-Milner logic with recursion. *Journal of Formal Methods in System Design*, Special issue devoted to selected papers from RV 2015 (Ezio Bartocci and Rupak Majumdar eds.), Springer 2017. To appear.
112. Rajiv Gandhi, Magnús M. Halldórsson, G. Kortsarz and H. Shachnai. Improved results for data migration and open-shop scheduling. *ACM Transactions on Algorithms* 2(1):116–129, January 2006.
113. Rajiv Gandhi, Magnús M. Halldórsson, G. Kortsarz and H. Shachnai. Improved bounds for scheduling conflicting jobs with minsum criteria *ACM Transactions on Algorithms* 4(1), Article 11, March 2008.
114. Rajiv Gandhi, Magnús M. Halldórsson, G. Kortsarz and H. Shachnai. Corrigendum: Improved bounds for scheduling conflicting jobs with minsum criteria. *ACM Transactions on Algorithms* 9(4), Article 34, September 2013.
115. Michael M. Genesereth and Yngvi Björnsón. The international general game playing competition. *AI Magazine*, 34(2):107–111, 2013.
116. A. Glen. A characterization of fine words over a finite alphabet. *Theoretical Computer Science* 391:51–60, 2008.
117. A. Glen, B. V. Halldórsson and S. Kitaev. Crucial abelian k-power-free words. *Discrete Mathematics and Theoretical Computer Science*, to appear.
118. A. Glen, J. Justin and G. Pirillo. Characterizations of finite and infinite episturmian words via lexicographic orderings. *European Journal of Combinatorics* 29:45–58, 2008.
119. A. Glen, J. Justin, S. Widmer and L.Q. Zamboni. Palindromic richness. *European Journal of Combinatorics* 30:510–531, 2009.
120. A. Glen, A. Lauve and F.V. Saliola. A note on the Markoff condition and central words. *Information Processing Letters* 105:241–244, 2008.
121. A. Glen, F. Levé, G. Richomme. Quasiperiodic and Lyndon episturmian words. *Theoretical Computer Science* 409(3):578–600, 2008.
122. A. Glen, F. Levé and G. Richomme. Directive words of episturmian words: equivalences and normalization. *RAIRO-Theor. Inf. Appl.* 43:299–319, 2009.



123. Gottfredsson M, Halldórsson BV, Jonsson S, Kristjansson M, Kristjansson K, Kristinsson KG, Löve A, Blöndal T, Viboud C, Thorvaldsson S, Helgason A, Gulcher JR, Stefansson K, Jonsdottir I. Lessons from the past: familial aggregation analysis of fatal pandemic influenza (Spanish flu) in Iceland in 1918. *Proceedings National Academy of Sciences USA*, 105(4):1303–1308, 2008.
124. Olga Goussievskaja, Magnús M. Halldórsson, Roger Wattenhofer. Algorithms for wireless capacity. *IEEE/ACM Transactions on Networking*, 2(3):745–755, June 2014.
125. Daniel Gudbjartsson, Thorvaldur Thorvaldsson, Augustin Kong, Gunnar Gunnarsson, Anna Ingólfssdóttir. Allegro version 2. *Nature Genetics* 37:1015–1016, 2005.
126. D.F. Gudbjartsson, G.B. Walters, G. Thorleifsson, H. Stefansson, B.V. Halldorsson, et al. Many sequence variants affecting diversity of adult human height. *Nature Genetics* 40(5):609–615, May 2008.
127. R. Guerraoui, K. Huguenin, A.-M. Kermarrec, M. Monod and Y. Vigfusson. Decentralized Polling with Respectable Participants. *Journal of Parallel and Distributed Computing* 72(1), January 2012.
128. B.V. Halldorsson, Derek Aguiar, Ryan Tarpine, Sorin Istrail. The Clark Phase-able Sample Size Problem: Long-range Phasing and Loss of Heterozygosity in GWAS. *Journal of Computational Biology* 18(3):323–333, 2011.
129. B.V. Halldorsson, Aron Hjalti Bjornsson, Haukur Tyr Gudmundsson, Elvar Orn Birgisson, Bjorn Runar Ludviksson and Bjorn Gudbjornsson. A Clinical Decision Support System for the Diagnosis, Fracture Risks and Treatment of Osteoporosis. *Computational and Mathematical Methods in Medicine*, 2014. Hindawi Publishing Corporation.
130. Bjarni V. Halldorsson, Dima Blokh and Roded Sharan. Estimating population size via line graph reconstruction. *Algorithms for Molecular Biology* 8:17, 2013. <http://www.almob.org/content/8/1/17>.
131. Bjarni V. Halldorsson and Daniel Gudbjartsson. An algorithm for detecting high frequency copy number polymorphisms using SNP array. *Journal of Computational Biology*, August 2011.
132. Bjarni V. Halldórsson, Magnús M. Halldórsson, Elena Losievskaja and Mario Szegedy. Streaming Algorithms for Independent Sets in Sparse Hypergraphs. *Algorithmica* 76(2):490–501, 2016.
133. B.V. Halldórsson, S. Istrail, F.M. De La Vega. Optimal selection of SNP markers for disease association studies. *Hum. Hered.* 58(3-4):190–202, 2004. (Published in June 2005.)

134. B.V. Halldórsson and Sharan R. Network-Based Interpretation of Genomic Variation Data. *Journal of Molecular Biology*. To appear.
135. Magnús M. Halldórsson. Approximating the  $(h, k)$ -labelling problem. *Int. J. Mobile Mobile Network Design and Innovation* 1(2):113–117, 2006. (Special Issue on W-FAP '05), 2006.
136. Magnús M. Halldórsson. Online coloring of hypergraphs. *Information Processing Letters* 110:370–372, 2010.
137. Magnús M. Halldórsson. Wireless scheduling with power control. *ACM Transactions on Algorithms*, 9(1):7, December 2012.
138. Magnús M. Halldórsson, Joseph Y. Halpern, Li (Erran) Li, Vahab S. Mirrokni. On Spectrum Sharing Games. *Distributed Computing* 22(4):235–248, 2010.
139. Magnús Halldórsson, Kazuo Iwama, Shuichi Miyazaki and Hiroki Yanagisawa. Improved approximation of the stable marriage problem. *ACM Transactions on Algorithms* 3(3), Article 30, August 2007.
140. Magnús M. Halldórsson, Sergey Kitaev and Artem Pyatkin. Semi-transitive orientations and word-representable graphs. *Discrete Applied Mathematics* **201**:164–171, March 2016.
141. Magnús M. Halldórsson, Guy Kortsarz, Maxim Sviridenko. Min Sum Edge Coloring in General Multigraphs via Configuration LP. *ACM Transactions on Algorithms* 7(2), Article 22, March 2011.
142. Magnús M. Halldórsson, Elena Losievskaja Independent sets in bounded-degree hypergraphs *Discrete Applied Mathematics* 157(8):1773–1786, April 2009.
143. Magnús M. Halldórsson, Pradipta Mitra. Wireless Capacity With Arbitrary Gain Matrix. *Theoretical Computer Science*, **553**:57–63, 2014.
144. Magnús M. Halldórsson and Pradipta Mitra. Nearly Optimal Bounds for Distributed Wireless Scheduling in the SINR Model. *Distributed Computing* **29**(2):77–88, April 2016.
145. Magnús M. Halldórsson, Boaz Patt-Shamir and Dror Rawitz. Scheduling with interval conflicts. *Theory of Computing Systems* 53(2):300–317, August 2013. Special issue of STACS 2011.
146. Magnús M. Halldórsson, Takeshi Tokuyama. Minimizing Interference of a Wireless Ad-Hoc Network in a Plane. *Theoretical Computer Science* 402(1):29–42, 2008. Available at <http://dx.doi.org/10.1016/j.tcs.2008.03.003>.

147. Ryan Hayward, Yngvi Björnsson, Michael Johanson, Morgan Kan, Nathan Po and Jack van Rijswijk. Solving 7x7 Hex with domination, fill-in, and virtual connections. *Theoretical Computer Science* 349(2):123–139, 2005.
148. S. Heubach and S. Kitaev. Avoiding substrings in compositions. *Congressus Numerantium*, to appear.
149. S. Heubach, S. Kitaev, T. Mansour: Partially ordered patterns and compositions, *Pure Mathematics and Applications (P.U.M.A.)* **17** (2007), No. 1–2, pp. 1–12.
150. I. Hilmarrsson, I. Jonsdottir, S. Sigurdardottir, L. Vidarsdottir and H. Ulfarsson. Wilf-classification of mesh patterns of short length. To appear in the *Electronic Journal of Combinatorics*.
151. H. Hojjat, M.R. Mousavi, and M. Sirjani. Formal Analysis of SystemC Designs in Process Algebra. *Fundamenta Informaticae*, IOS Press, 2011. To appear.
152. Anna Ingólfssdóttir and Daniel Gudbjartsson. Genetic Linkage Analysis Algorithms and Their Implementation. *Transactions on Computational System Biology* 123–144, 2005.
153. Mohammad Madhi Jaghoori, Frank S. de Boer, Tom Chothia and Marjan Sirjani. Schedulability of Asynchronous Real-Time Concurrent Objects. To appear in the *Journal of Logic and Algebraic Programming*.
154. M. M. Jaghoori, M. Sirjani, M. R. Mousavi, E. Khamespanah, A. Movaghar. Symmetry and Partial Order Reduction Techniques in Model Checking Rebeca. To appear in *Acta Informatica*.
155. V. Jelinek. The rank-width of the square grid. *Discrete Applied Mathematics* 158(7):841–850, 2010
156. Akihisa Kako, Takao Ono, Tomio Hirata, and Magnús M. Halldórsson. Approximation Algorithms for the Weighted Independent Set Problem. *Disc. Appl. Math.* 157(4):617–626, 28 February 2009.
157. Birte Kehr and Páll Melsted. chopBAI: BAM index reduction solves I/O bottlenecks in the joint analysis of large sequencing cohorts. *Bioinformatics* 32(14):2202–2204, 2016.
158. Birte Kehr, Páll Melsted, Bjarni V. Halldórsson. PopIns: Population-scale detection of novel sequence insertions. *Bioinformatics* 32(7):961–967, 2016.
159. Kerkhof HJ, Lories RJ, Meulenbelt I, Jonsdottir I, Valdes AM, Arp P, Ingvarsson T, Jhamai M, Jonsson H, Stolk L, Thorleifsson G, Zhai G, Zhang F, Zhu Y, van der Breggen R, Carr A, Doherty M, Doherty S, Felson DT, Gonzalez A, Halldorsson BV, Hart DJ, Hauksson VB, Hofman A,

- Ioannidis JP, Kloppenburg M, Lane NE, Loughlin J, Luyten FP, Nevitt MC, Parimi N, Pols HA, Rivadeneira F, Slagboom EP, Stykarsdottir U, Tsezou A, van de Putte T, Zmuda J, Spector TD, Stefansson K, Uitterlinden AG, van Meurs JB. A genome-wide association study identifies an osteoarthritis susceptibility locus on chromosome 7q22. *Arthritis Rheum.* 2010 Feb;62(2):499-510.
160. N. Khakpour, S. Jalili, M. Sirjani, U. Goltz, B. Abolhasanzadeh. HPob-SAM for Modeling and Analyzing IT Ecosystems—Through a Case Study. *Journal of Systems and Software* 85(12):2770–2784, Elsevier, 2012.
161. N. Khakpour, S. Jalili, C. Talcott, M. Sirjani and M. M. Mousavi. Formal Modeling of Evolving Self-Adaptive Systems. *Science of Computer Programming* 78(1):3–26, Special Section: Formal Aspects of Component Software (FACS’ 09), Edited by Sun Meng and Bernhard Schätz, November 2012.
162. Tuomas O. Kilpelainen et al. Genetic variation near IRS1 associates with reduced adiposity and an impaired metabolic profile. *Nature Genetics*, 2011, Published online 26 June 2011.
163. S. Kitaev, J. Liese, J. Remmel, B. Sagan: Rationality, irrationality, and Wilf equivalence in generalized factor order, *Electronic Journal of Combinatorics* 16(2), #R22, Special volume in honor of Anders Björner on the occasion of his 60th birthday, 2009.
164. S. Kitaev, T. Mansour, J. Remmel. Counting descents, rises, and levels, with prescribed first element, in words, *Discrete Mathematics & Theoretical Computer Science* 10:3 (2008) 1–22.
165. S. Kitaev, T. Mansour, A. Vella: Pattern avoidance in matrices, *Journal of Integer Sequences* **8**, no. 2 (2005), Article 05.2.2, 16pp.
166. S. Kitaev: Partially Ordered Generalized Patterns, *Discrete Mathematics* **298** (2005), 212–229.
167. S. Kitaev, T. Mansour: Simultaneous avoidance of generalized patterns, *Ars Combinatoria* **75** (2005), 267–288.
168. S. Kitaev, T. Mansour: On multi-avoidance of generalized patterns, *Ars Combinatoria* **76** (2005), 321–350.
169. S. Kitaev, T. Mansour: Linear sequences and Chebyshev polynomials, *The Fibonacci Quarterly* **43.3** (2005), 256–261.
170. S. Kitaev: Segmented partially ordered generalized patterns, *Theoretical Computer Science* **349** (2005) 3, 420–428.
171. S. Kitaev: Counting independent sets on path-schemes, *Journal of Integer Sequences* **9**, no. 2 (2006), Article 06.2.2, 8pp.

172. S. Kitaev, J. Remmel: Classifying Descents According to Equivalence mod  $k$ , *Electronic Journal of Combinatorics* **13(1)** (2006), #R64.
173. S. Kitaev, J. Remmel: Place-difference-value patterns: A generalization of generalized permutation and word patterns, *Integers: Electronic Journal of Combinatorial Number Theory* 10 (2010), A11, 129–154.
174. S. Kitaev, T. McAllister, K. Petersen: Enumerating segmented patterns in compositions and encoding with restricted permutations, *Integers: Electronic Journal of Combinatorial Number Theory* **6** (2006), A34, 16pp.
175. S. Kitaev: Introduction to partially ordered patterns, *Discrete Applied Mathematics* **155** (2007), 929–944.
176. S. Kitaev, J. Remmel: Classifying Descents According to Parity, *Annals of Combinatorics* **11** (2007), 173–193.
177. S. Kitaev, J. Remmel. Enumerating  $(2+2)$ -free posets by the number of minimal elements and other statistics. *Discrete Applied Mathematics*, to appear.
178. S. Kitaev, T. Mansour, P. Séébold: Counting ordered patterns in words generated by morphisms, *Integers: Electronic Journal of Combinatorial Number Theory* **8** (2008), A03, 28pp.
179. S. Kitaev. A survey on partially ordered patterns, in *Permutation Patterns, St Andrews 2007*, S.A. Linton, N. Ruskuc, V. Vatter (eds.), vol. 376 of London Mathematical Society Lecture Note Series, Cambridge University Press, pp. 115–135.
180. S. Kitaev, A. Pyatkin: On representable graphs, *Automata, Languages and Combinatorics* 13(1):45–54, 2008.
181. S. Kitaev, A. Pyatkin: On avoidance of  $V$ - and  $\Lambda$ -patterns in permutations, *Ars Combinatoria* 97:203–215, 2010.
182. S. Kitaev and J. Robbins. On multi-dimensional patterns, *Pure Mathematics and Applications (P.U.M.A.)* 18, No. 3–4, pp. 1–9, 2007.
183. S. Kitaev, P. Salimov, C. Severs and H. Ulfarsson. On the Representability of Line Graphs. To appear in *Open Journal of Discrete Mathematics*, 2011.
184. S. Kitaev, P. Salimov, C. Severs and H. Ulfarsson. Restricted non-separable planar maps and some pattern avoiding permutations. To appear in *Discrete Applied Mathematics*, Elsevier.
185. S. Kitaev, S. Seif: Word problem of the Perkins semigroup via directed acyclic graphs, *Order* 25(3):177–194, 2008.

186. Christian Konrad, Adi Rosn. Approximating Semi-Matchings in Streaming and in Two-Party Communication. *ACM Transactions on Algorithms (TALG)*. to appear.
187. Guy Kortsarz, Magnús Halldórsson, Jaikumar Radhakrishnan and Sivaramakrishnan Sivasubramanian. Complete Partitions of Graphs. *Combinatorica*, 27(5), 2007.
188. Kung AW, Xiao SM, Cherny S, Li GH, Gao Y, Tso G, Lau KS, Luk KD, Liu JM, Cui B, Zhang MJ, Zhang ZL, He JW, Yue H, Xia WB, Luo LM, He SL, Kiel DP, Karasik D, Hsu YH, Cupples LA, Demissie S, Styrkarsdottir U, Halldorsson BV, Sigurdsson G, Thorsteinsdottir U, Stefansson K, Richards JB, Zhai G, Soranzo N, Valdes A, Spector TD, Sham PC. Association of JAG1 with bone mineral density and osteoporotic fractures: a genome-wide association study and follow-up replication studies. *Am J Hum Genet.* 2010 Feb 12;86(2):229-39.
189. R. Melamed, G. Laden and Y. Vigfusson. Adaptive and Dynamic Funnel Replication in Clouds. *Operating Systems Review* 44(2). January 2012.
190. Melsted, Páll and Halldórsson, Bjarni V. KmerStream: Streaming algorithms for k-mer abundance estimation. *Bioinformatics* 30(24):3541–3547, 2014. Oxford University Press.
191. M.R. Mousavi, I.C.C. Phillips, M.A. Reniers, I. Ulidowski. Semantics and Expressiveness of Ordered SOS. *Information and Computation*, 2008. To appear.
192. M. R. Mousavi, M. A. Reniers, J.F. Groote. SOS formats and meta-theory: 20 years after. *Theoretical Computer Science* 373:238–272, 2007.
193. Oei L, Hsu YH, Styrkarsdottir U, Eussen BH, de Klein A, Peters MJ, Halldorsson B, Liu CT, Alonso N, Kaptoge SK, Thorleifsson G, Hallmans G, Hocking LJ, Husted LB, Jameson KA, Kruk M, Lewis JR, Patel MS, Scollen S, Svensson O, Trompet S, van Schoor NM, Zhu K, Buckley BM, Cooper C, Ford I, Goltzman D, Gonzalez-Macas J, Langdahl BL, Leslie WD, Lips P, Lorenc RS, Olmos JM, Pettersson-Kymmer U, Reid DM, Riancho JA, Slagboom PE, Garcia-Ibarbia C, Ingvarsson T, Johannsdottir H, Luben R, Medina-Gmez C, Arp P, Nandakumar K, Palsson ST, Sigurdsson G, van Meurs JB, Zhou Y, Hofman A, Jukema JW, Pols HA, Prince RL, Cupples LA, Marshall CR, Pinto D, Sato D, Scherer SW, Reeve J, Thorsteinsdottir U, Karasik D, Richards JB, Stefansson K, Uitterlinden AG, Ralston SH, Ioannidis JP, Kiel DP, Rivadeneira F, Estrada K. A genome-wide copy number association study of osteoporotic fractures points to the 6p25.1 locus. *Journal of Medical Genetics* 51(2):122–131, 2014. <http://www.ncbi.nlm.nih.gov/pubmed/24343915>.
194. Arna Óskarsdóttir, Gsli Másson, Páll Melsted. BamHash: A checksum program for verifying the integrity of sequence data. *Bioinformatics* 32(1):140–141, 2016.

195. Panoutsopoulou K, Southam L, Elliott KS, Wrayner N, Zhai G, Beazley C, Thorleifsson G, Arden NK, Carr A, Chapman K, Deloukas P, Doherty M, McCaskie A, Ollier WE, Ralston SH, Spector TD, Valdes AM, Wallis GA, Wilkinson JM, Arden E, Battley K, Blackburn H, Blanco FJ, Bumpstead S, Cupples LA, Day-Williams AG, Dixon K, Doherty SA, Esko T, Evangelou E, Felson D, Gomez-Reino JJ, Gonzalez A, Gordon A, Gwilliam R, Halldorsson BV, Hauksson VB, Hofman A, Hunt SE, Ioannidis JP, Ingvarsson T, Jonsdottir I, Jonsson H, Keen R, Kerkhof HJ, Kloppenburg MG, Koller N, Lakenberg N, Lane NE, Lee AT, Metspalu A, Meulenbelt I, Nevitt MC, O'Neill F, Parimi N, Potter SC, Rego-Perez I, Riancho JA, Sherburn K, Slagboom PE, Stefansson K, Styrkarsdottir U, Sumillera M, Swift D, Thorsteinsdottir U, Tsezou A, Uitterlinden AG, van Meurs JB, Watkins B, Wheeler M, Mitchell S, Zhu Y, Zmuda JM; arcOGEN Consortium, Zeggini E, Loughlin. Insights into the genetic architecture of osteoarthritis from stage 1 of the arcOGEN study. *J. Ann Rheum Dis.* 2010 December 21. [Epub ahead of print]PMID: 21177295
196. Harold Pimentel, Pascal Sturmfels, Nicolas Bray, Páll Melsted, Lior Pachter. The Lair: A resource for exploratory analysis of published RNA-Seq data. *BMC Bioinformatics* 17: 490:1–490:6, 2016.
197. B. Pourvatan, M. Sirjani, H. Hojjat and F. Arbab, Symbolic execution of Reo circuits using constraint automata. *Science of Computer Programming* 77(7–8): 848–869, Elsevier 2012.
198. N. Razavi, R. Behjati, H. Sabouri, E. Khamespanah A. Shali and M. Sirjani. Sysfier: Actor-based Formal Verification of SystemC. *ACM transactions on Embedded Computing Systems (Special Issue on Model-driven Embedded System Design)*, to appear.
199. Reppe, Sjur and Noer, Agate and Grimholt, Runa M and Halldórsson, Bjarni V and Medina-Gomez, Carolina and Gautvik, Vigdis T and Olstad, Ole Kristoffer and Berg, Jens Petter and Datta, Harish and Estrada, Karol and others. Methylation of bone SOST, its mRNA, and serum sclerostin levels correlate strongly with fracture risk in postmenopausal women. *Journal of Bone and Mineral Research* 30(2):249–256, 2015.
200. A.H. Reynisson, M. Sirjani, L. Aceto, M. Cimini, A. Jafari, A. Ingólfssdóttir and S.H. Sigurdarson. Modelling and Simulation of Asynchronous Real-Time Systems using Timed Rebeca. *Science of Computer Programming* 89(A):41–68, Elsevier, 1 September 2014. Special issue on the 10th International Workshop on the Foundations of Coordination Languages and Software Architectures (FOCLASA 2011), edited by M.R. Mousavi and A. Ravara.
201. Richards JB, Kavvoura FK, Rivadeneira F, Styrkarsdottir U, Estrada K, Halldorsson BV, Hsu YH, Zillikens MC, Wilson SG, Mullin BH, Amin N, Aulchenko YS, Cupples LA, Deloukas P, Demissie S, Hofman A, Kong A,

- Karasik D, van Meurs JB, Oostra BA, Pols HA, Sigurdsson G, Thorsteinsdottir U, Soranzo N, Williams FM, Zhou Y, Ralston SH, Thorleifsson G, van Duijn CM, Kiel DP, Stefansson K, Uitterlinden AG, Ioannidis JP, Spector TD; Genetic Factors for Osteoporosis Consortium. Collaborative meta-analysis: associations of 150 candidate genes with osteoporosis and osteoporotic fracture. *Ann Intern Med.* 2009 Oct 20;151(8):528–537.
202. G. Richomme, K. Saari and L. Zamboni. Standard factors of Sturmian words. *Theor. Inform. Appl. (RAIRO)*, 44 (2010), p. 159–174.
203. G. Richomme, K. Saari and L. Zamboni. Balance and Abelian complexity of the tribonacci word. *Advances in Applied Mathematics*, 2010. In press.
204. Rivadeneira F, Styrkarsdottir U, Estrada K, Halldorsson BV, Hsu YH, Richards JB, Zillikens MC, Kavvoura FK, Amin N, Aulchenko YS, Cupples LA, Deloukas P, Demissie S, Grundberg E, Hofman A, Kong A, Karasik D, van Meurs JB, Oostra B, Pastinen T, Pols HA, Sigurdsson G, Soranzo N, Thorleifsson G, Thorsteinsdottir U, Williams FM, Wilson SG, Zhou Y, Ralston SH, van Duijn CM, Spector T, Kiel DP, Stefansson K, Ioannidis JP, Uitterlinden AG. Twenty bone-mineral-density loci identified by large-scale meta-analysis of genome-wide association studies. the Genetic Factors for Osteoporosis (GEFOS) Consortium. *Nat Genet.* 2009 Oct 4. [Epub ahead of print]
205. Zeynab Sabahi-Kaviani, Ramtin Khosravi, Peter Csaba Ölveczky, Ehsan Khamespanah and Marjan Sirjani. Formal semantics and efficient analysis of Timed Rebeca in Real-Time Maude. *Science of Computer Programming* 113(2):85–118, 1 December 2015.
206. H. Sabouri, M. Sirjani, Actor-based Slicing Techniques for Efficient Reduction of Rebeca Models. *Science of Computer Programming* 75(10):811–827, 2010.
207. J. Sack. Extending Probabilistic Dynamic Epistemic Logic. To appear in *Knowledge, Rationality and Action*, 2009.
208. J. Sack. Logic for Update Products and Steps into the Past. To appear in *Annals of Pure and Applied Logic*, 2010.
209. J. Sack and H. Ulfarsson. Refined Inversion Statistics on Permutations. *Electronic Journal of Combinatorics*, paper number 29. volume 19, 2012.
210. Jonathan Schaeffer, Neil Burch, Yngvi Björnsson, Akihiro Kishimoto, Martin Müller, Rob Lake, Paul Lu and Steve Sutphen. Checkers is Solved. *Science* 317(5844):1518–1522, 2007. Work named by Science Magazine as one of the 10 most important scientific achievements of 2007.
211. Stephan Schiffel and Yngvi Björnsson. Efficiency of GDL reasoners. *IEEE Transactions on Computational Intelligence and AI in Games*, 2013. In press.



212. R. Sharan, B.V. Halldórsson, S. Istrail. Islands of tractability for parsimony haplotyping. *IEEE/ACM Transaction on Computational Biology and Bioinformatics* 3(3):303–311, 2006.
213. G. Sigurdsson, B.V. Halldorsson, U. Styrkarsdottir, K. Kristjansson, K. Stefansson. The Impact of Genetics on Low Bone Mass in Adults. *Journal for Bone and Mineral Research*, May 27, 2008. [Epub ahead of print]
214. Benjamn Sigurgeirsson, Haraldur orsteinsson, Sigrun Sigmundsdottir, Ramona Lieder, Hildur S. Sveinsdottir, Olafur E. Sigurjonsson, Bjarni Halldorsson and Karl Karlsson. Sleep-Wake Dynamics under Extended Light and Extended Dark Conditions in Adult Zebrafish. *Behavioural Brain Research*. To appear.
215. Stacey SN, Sulem P, Zanon C, Gudjonsson SA, Thorleifsson G, Helgason A, Jonasdottir A, Besenbacher S, Kostic JP, Fackenthal JD, Huo D, Adebamowo C, Ogundiran T, Olson JE, Fredericksen ZS, Wang X, Look MP, Sieuwerts AM, Martens JW, Pajares I, Garcia-Prats MD, Ramon-Cajal JM, de Juan A, Panadero A, Ortega E, Aben KK, Vermeulen SH, Asadzadeh F, van Engelenburg KC, Margolin S, Shen CY, Wu PE, Frsti A, Lenner P, Henriksson R, Johansson R, Enquist K, Hallmans G, Jonsson T, Sigurdsson H, Alexiusdottir K, Gudmundsson J, Sigurdsson A, Frigge ML, Gudmundsson L, Kristjansson K, Halldorsson BV, Styrkarsdottir U, Gulcher JR, Hemminki K, Lindblom A, Kiemeny LA, Mayordomo JJ, Foekens JA, Couch FJ, Olopade OI, Gudbjartsson DF, Thorsteinsdottir U, Rafnar T, Johannsson OT, Stefansson K. Ancestry-shift refinement mapping of the C6orf97-ESR1 breast cancer susceptibility locus. *PLoS Genetics* 2010 Jul 22;6(7). Available at <http://www.plosgenetics.org/article/info%3Adoi%2F10.1371%2Fjournal.pgen.1001029>.
216. E. Steingrímsson. Generalized permutation patterns — a short survey, in *Permutation Patterns, St Andrews 2007*, S.A. Linton, N. Ruskuc, V. Vatter (eds.), LMS Lecture Note Series, Cambridge University Press, to appear.
217. E. Steingrímsson and B.E. Tenner. The Möbius function of the permutation pattern poset. *Journal of Combinatorics*, to appear.
218. E. Steingrímsson and L. Williams. Permutation tableaux and permutation patterns. *J. Combin. Theory Ser. A* 114 (2007), 211–234.
219. U. Styrkarsdottir, B.V. Halldorsson, S. Gretarsdottir, Gudbjartsson DF, et al. Multiple Genetic Loci for Bone Mineral Density and Fractures. *New England Journal of Medicine*, 2008. To appear.
220. Styrkarsdottir, U; Halldorsson, BV; Gretarsdottir, S; Gudbjartsson, DF; Walters, GB; Ingvansson, T; Jonsdottir, T; Saemundsdottir, J; Snorraddottir, S; Center, JR; Nguyen, TV; Alexandersen, P; Gulcher, JR; Eisman,

- JA; Christiansen, C; Sigurdsson, G; Kong, A; Thorsteinsdottir, U; Stefansson, K. New sequence variants associated with bone mineral density. *NATURE GENETICS* JAN 2009 15-17 ISI:000262085300011
221. Styrkarsdottir U, Halldorsson BV, Gudbjartsson DF, Tang NL, Koh JM, Xiao SM, Kwok TC, Kim GS, Chan JC, Cherny S, Lee SH, Kwok A, Ho S, Gretarsdottir S, Kostic JP, Palsson ST, Sigurdsson G, Sham PC, Kim BJ, Kung AW, Kim SY, Woo J, Leung PC, Kong A, Thorsteinsdottir U, Stefansson K. European bone mineral density loci are also associated with BMD in East-Asian populations. *PLoS One*. 2010 Oct 7;5(10):e13217.
222. J.I. Sveinbjörnsson and B.V. Halldórsson. PAIR: Polymorphic Alu Insertion Recognition. *BMC Bioinformatics*. To appear.
223. C. Talcott, M. Sirjani and S. Ren. Comparing three coordination models: Reo, ARC, and PBRD. *Science of Computer Programming* 76(1):3–22, 1 January 2011. Available online on 2 December 2009 at <http://dx.doi.org/10.1016/j.scico.2009.11.006>.
224. Mandy J. W. Tak, Mark H. M. Winands, and Yngvi Björnsson. Decaying simulation strategies. *IEEE Transactions on Computational Intelligence and AI in Games*, 2013. In press.
225. Thorleifsson, G; Holm, H; Edvardsson, V; Walters, GB; Styrkarsdottir, U; Gudbjartsson, DF; Sulem, P; Halldorsson, BV; de Vegt, F; d’Ancona, FCH; den Heijer, M; Franzson, L; Christiansen, C; Alexandersen, P; Rafnar, T; Kristjansson, K; Sigurdsson, G; Kiemeny, LA; Bodvarsson, M; Indridason, OS; Palsson, R; Kong, A; Thorsteinsdottir, U; Stefansson, K. Sequence variants in the CLDN14 gene associate with kidney stones and bone mineral density. *NATURE GENETICS* Volume: 41 Issue: 8 Pages: 926-U92.
226. R. Tijdeman and L.Q. Zamboni. Fine and Wilf words for any periods II. *Theoretical Computer Science* 410(30–32):3027–3034, 2009.
227. R. Tijdeman and L.Q. Zamboni. Characterizations of words with many periods. *Integers* 9:333–342, 2009.
228. Tommaso Toffoli, Silvio Capobianco, Patrizia Mentrasti. When—and how—can a cellular automaton be rewritten as a lattice gas? *Theoretical Computer Science* 403 (2008), pp. 71–88.
229. T. Tonoyan. Conflict graphs and the SINR-capacity of the mean power scheme. *Theor. Comput. Sci.* 608 (2015), pp. 166–177.
230. H. Ulfarsson. Generalized permutation patterns and Schubert varieties. *Pure Mathematics and Applications*, special issue devoted to Permutation Patterns 2011, to appear.

231. H. Úlfarsson. Describing West-3-stack-sortable permutations with permutation patterns. *Séminaire Lotharingien de Combinatoire*, 2012. To appear.
232. Henning Ulfarsson and Alexander Woo. Which Schubert varieties are local complete intersections? To appear in *Proceedings of the London Mathematical Society*.
233. Mark Winands and Yngvi Björnsson. Enhanced Realization Probability Search. *New Mathematics and Natural Computation* 3(6), 2008. In press.
234. Mark Winands and Yngvi Björnsson. Monte Carlo Tree Search in Lines of Action. *IEEE Transactions on Computational Intelligence and AI in Games*, 2010. In press.

## Conference and Workshop Papers

1. Hussam Abu-Libdeh, Robbert van Renesse, Ymir Vigfusson. Leveraging Sharding in the Design of Scalable Replication Protocols. In the Proceedings of Symposium on Cloud Computing (SOCC) 2013, Santa Clara, CA. October, 2013.
2. L. Aceto. Impossibility Results in the Equational Logic of Processes, in Proceedings of the Workshop on Logic, Models and Computer Science (LMCS06) (F. Corradini and C. Toffalori eds.), Electronic Notes in Theoretical Computer Science 169:3–6, Elsevier, 1 March 2007.
3. L. Aceto, A. Achilleos, A. Francalanza and A. Ingólfssdóttir. The Complexity of Identifying Characteristic Formulas for muHML. *Proceedings of the 11th Panhellenic Logic Symposium 2017*. July 2017. To appear.
4. L. Aceto, A. Achilleos, A. Francalanza and A. Ingólfssdóttir. Monitoring for Silent Actions. *FSTTCS 2017, the 37th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science*, LIPIcs vol. TBA, December 2017.
5. L. Aceto, A. Achilleos, A. Francalanza and A. Ingólfssdóttir. A Framework for Parameterized Monitorability. *Proceedings of the 21st International Conference on Foundations of Software Science and Computation Structures (FoSSaCS 2018)* (Christel Baier and Ugo Dal Lago eds.), Lecture Notes in Computer Science, Springer, April 2018. To appear.
6. L. Aceto, A. Achilleos, A. Francalanza, A. Ingólfssdóttir and S.Ö. Kjar-tansson. On the Complexity of Determinizing Monitors. *Proceedings of the 22nd International Conference Implementation and Application of Automata (CIAA 2017)*, Lecture Notes in Computer Science, Springer, June 2017.

7. L. Aceto, A. Birgisson, A. Ingólfssdóttir and M. Mousavi. Decompositional Reasoning about the History of Parallel Processes. Proceedings of *IPM International Conference on Fundamentals of Software Engineering (FSEN 2011)* (F. Arbab and M. Sirjani, eds.), Lecture Notes in Computer Science, Springer-Verlag, 2011. To appear.
8. L. Aceto, A. Birgisson, A. Ingólfssdóttir, M. Mousavi and M. Reniers. Rule Formats for Determinism and Idempotency. To appear in the Proceedings of IPM International Conference on Fundamentals of Software Engineering (FSEN09), Iran, April 15–17 2009, Lecture Notes in Computer Science, Springer-Verlag, 2009.
9. Luca Aceto, Georgiana Caltais, Eugen-Ioan Goriac and Anna Ingólfssdóttir. PREG Axiomatizer - A Ground Bisimilarity Checker for GSOS with Predicates. To appear in the Proceedings of CALCO 2011 as a contribution to CALCO Tools, Lecture Notes in Computer Science, Springer Verlag, 2011.
10. Luca Aceto, Georgiana Caltais, Eugen-Ioan Goriac and Anna Ingólfssdóttir. Axiomatizing GSOS with Predicates. Proceedings of the Eight Workshop on Structural Operational Semantics (SOS 2011), Electronic Proceedings in Theoretical Computer Science volume 62, pp. 1–16, Aachen, Germany, 5th September 2011.
11. Luca Aceto, Arnaud Carayol, Zoltan Esik and Anna Ingólfssdóttir. Algebraic Synchronization Trees and Processes. To appear in the Proceedings of ICALP 2012, Lecture Notes in Computer Science, Springer-Verlag, 2012.
12. L. Aceto, I. Cassar, A. Francalanza and A. Ingólfssdóttir. On Runtime Enforcement via Suppressions. *Proceedings of the 29th International Conference on Concurrency Theory (CONCUR 2018)* (Sven Schewe and Lijun Zhang eds.), LIPIcs, September 2018. To appear.
13. L. Aceto, T. Chen, W. J. Fokkink and A. Ingólfssdóttir. On the Axiomatizability of Priority. In the Proceedings of ICALP 2006 (Michele Bugliesi, Bart Preneel, Vladimiro Sassone, Ingo Wegener editors), Lecture Notes in Computer Science 4052 (Part II), pp. 480–491, Springer-Verlag, July 2006.
14. L. Aceto, M. Cimini and A. Ingólfssdóttir. A Bisimulation-based Method for Proving the Validity of Equations in GSOS Languages. Proceedings of *Structural Operational Semantics 2009*, Electronic Proceedings in Theoretical Computer Science 18, pp. 1–16, 2010.
15. L. Aceto, M. Cimini, A. Ingólfssdóttir, M. Mousavi and M. Reniers. On Rule Formats for Zero and Unit Elements. Proceedings of *Mathematical Foundations of Programming Semantics 2010*, Electronic Notes in Theoretical Computer Science 265, pp. 145–160, Elsevier, 2010.

16. L. Aceto, M. Cimini, A. Ingólfssdóttir, M. Mousavi and M. Reniers. Rule Formats for Distributivity. To appear in the Proceedings of *LATA 2011*, , *Fifth International Conference on Languages and Automata Theory and Applications*, Lecture Notes in Computer Science, Springer-Verlag, 2011.
17. L. Aceto, M. Cimini, A. Ingólfssdóttir, A.H. Reynisson, S.H. Sigurdarson and M. Sirjani. Modelling and Simulation of Real-Time Systems using Timed Rebeca. Proceedings of FOCLASA 2011, volume 58 of Electronic Proceedings in Computer Science, pages 1–19, 29 July 2011. <http://arxiv.org/abs/1108.0228v1>
18. L. Aceto, D. Della Monica, I. Fabregas and A. Ingólfssdóttir. When are prime formulae characteristic? *Proceedings of the 40th MFCS, Mathematical Foundations of Computer Science* (G. Italiano, G. Pighizzini and D. Sannella eds.), Lecture Notes in Computer Science, Springer Verlag, 2015. To appear.
19. L. Aceto, D. Della Monica, A. Ingólfssdóttir, A. Montanari and G. Sciavicco. A complete classification of the expressiveness of interval logics of Allen’s relations over dense linear orders. To appear in the *Proceedings of TIME 2013: 20th International Symposium on Temporal Representation and Reasoning*, IEEE Press, 2013.
20. L. Aceto, D. Della Monica, A. Ingólfssdóttir, A. Montanari and G. Sciavicco. An Algorithm for Enumerating Maximal Models of Horn Theories with an Application to Modal Logics. *Proceedings of LPAR-19, Logic for Programming, Artificial Intelligence and Reasoning*, Lecture Notes in Computer Science, Springer Verlag, 2013. To appear.
21. L. Aceto, D. Della Monica, A. Ingólfssdóttir, A. Montanari and G. Sciavicco. On the expressiveness of the interval logic of Allen’s relations over finite and discrete linear orders. *Proceedings of JELIA 2014, 14th European Conference on Logics in Artificial Intelligence* (E. Fermé and J. Leite eds.), Lecture Notes in Artificial Intelligence 8761, pp. 267–281, Springer Verlag, 2014.
22. L. Aceto, I. Fábregas, D. de Frutos Escrig, A. Ingólfssdóttir and M. Palomino. Relating modal refinements, covariant-contravariant simulations and partial bisimulations. Proceedings of *IPM International Conference on Fundamentals of Software Engineering (FSEN 2011)* (F. Arbab and M. Sirjani, eds.), Lecture Notes in Computer Science, Springer-Verlag, 2011. To appear.
23. L. Aceto, I. Fábregas, D. de Frutos Escrig, A. Ingólfssdóttir and M. Palomino. Graphical representation of covariant-contravariant modal formulas. Proceedings of *EXPRESS 2011* (B. Luttik and F. Valencia, eds.), Electronic Proceedings in Theoretical Computer Science 64, pp. 1–15, 2011.

24. L. Aceto, I. Fabregas, A. Garcia-Pérez, A. Ingólfssdóttir and Y. Ortega-Mallén. Rule Formats for Nominal Transition Systems. *Proceedings of CONCUR 2017* (Uwe Nestmann and Roland Meyer eds.), LIPIcs, September 2017.
25. L. Aceto, I. Fabregas, C. Gregorio-Rodríguez and A. Ingólfssdóttir. Logical characterisations and compositionality of input-output conformance simulation. To appear in the *Proceedings of the 43rd International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2017, Foundations Of Computer Science Track*, Lecture Notes in Computer Science, Springer, January 2017.
26. L. Aceto, D. de Frutos Escrig, C. Gregorio-Rodríguez and A. Ingólfssdóttir. Axiomatizing Weak Simulation Semantics over BCCS. In the *Proceedings of ICTAC 2011, the 8th International Colloquium on Theoretical Aspects of Computing, 31 August–2 September 2011* (A. Cerone and P. Pihlajasaari, eds.), Johannesburg, South Africa, Lecture Notes in Computer Science 6919, pp. 7–24, Springer-Verlag, 2011.
27. L. Aceto, D. de Frutos Escrig, C. Gregorio-Rodríguez and A. Ingólfssdóttir. The Equational Theory of Weak Complete Simulation Semantics over BCCSP. To appear in the *Proceedings of the 38th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2012)*, Lecture Notes in Computer Science, Springer-Verlag, 2012.
28. L. Aceto, W. J. Fokkink, and A. Ingólfssdóttir. Ready to Preorder: Get Your BCCSP Axiomatization for Free! In the *Proceedings of Algebra and Coalgebra in Computer Science, 2nd Conference, CALCO 2007* (Ugo Montanari, Till Mossakowski and Magne Haveraaen editors), Bergen, Norway, 20–24 August 2007, Lecture Notes in Computer Science 4624, pp. 65–79, Springer-Verlag, 2007.
29. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and B. Luttik. A Finite Equational Base for CCS with Left Merge and Communication Merge. In the *Proceedings of ICALP 2006* (Michele Bugliesi, Bart Preneel, Vladimiro Sassone, Ingo Wegener editors), Lecture Notes in Computer Science 4052 (Part II), pp. 492–503, Springer-Verlag, July 2006.
30. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and MohammadReza Mousavi. Lifting Non-Finite Axiomatizability Results to Extensions of Process Algebras. In the *Proceedings of TCS 2008, 5th IFIP International Conference on Theoretical Computer Science*, IFIP International Federation for Information Processing Series, pp. 301–316, Springer-Verlag, September 2008.
31. L. Aceto, W. J. Fokkink, A. Ingólfssdóttir and S. Nain. Bisimilarity is not Finitely Based over BPA with Interrupt. In the *Proceedings of Algebra and Coalgebra in Computer Science, 1st Conference, CALCO 2005*,

- Swansea, Wales, 3–6 September 2005, Lecture Notes in Computer Science 3629, pp. 54–68, Springer-Verlag, 2005.
32. L. Aceto, E. Goriac and A. Ingólfssdóttir. SOS Rule Formats for Idempotent Terms and Idempotent Unary Operators. In the *Proceedings of SOFSEM 2013: The 39th International Conference on Current Trends in Theory and Practice of Computing*, Lecture Notes in Computer Science 7741, pp. 108–120, Springer-Verlag, 2013.
  33. L. Aceto, E. Goriac and A. Ingólfssdóttir. Meta SOS — A Maude Based SOS Meta-Theory Framework. *Proceedings of EXPRESS/SOS 2013: Combined 20th International Workshop on Expressiveness in Concurrency and 10th Workshop on Structural Operational Semantics*, Electronic Proceedings in Theoretical Computer Science, 2013. To appear.
  34. L. Aceto, E. Goriac, A. Ingólfssdóttir, M. Mousavi and M. Reniers. Exploiting Algebraic Laws to Improve Mechanized Axiomatization. In the *Proceedings of CALCO 2013, 5th Conference on Algebra and Coalgebra in Computer Science*, Lecture Notes in Computer Science, Springer-Verlag, 2013. To appear.
  35. L. Aceto, W. van der Hoek, A. Ingólfssdóttir and J. Sack. Sigma Algebras in Probabilistic Epistemic Dynamics. In the *Proceedings of the 13th Conference on Theoretical Aspects of Rationality and Knowledge (TARK-2011)*, pp. 191–199, ACM 2011.
  36. L. Aceto and A. Ingólfssdóttir. The Saga of the Axiomatization of Parallel Composition. In the Proceedings of CONCUR 2007 (Luis Caires and Vasco Thudichum Vasconcelos editors), Lisbon, Portugal, 3–8 September 2007, Lecture Notes in Computer Science 4703, pp. 2–16, Springer-Verlag, 2007.
  37. L. Aceto and A. Ingólfssdóttir. Characteristic formulae for relations with nested fixed points. Proceedings of *FICS 2012, Workshop on Fixed Points in Computer Science*, Electronic Proceedings in Theoretical Computer Science, 2012.
  38. L. Aceto, A. Ingólfssdóttir, Kim G. Larsen and J. Srba. Teaching Concurrency: Theory in Practice. Proceedings of *TFM2009, 2nd Int. FME Conference on Teaching Formal Methods: “Widening Access to Formal Methods”* (J. Gibbons and J. N. Oliveira, eds.), Lecture Notes in Computer Science 5846, pp. 158–175, Springer-Verlag, 2009.
  39. L. Aceto, A. Ingólfssdóttir, B. Luttik and P. van Tilburg. Finite Equational Bases for Fragments of CCS with Restriction and Relabelling. In the Proceedings of TCS 2008, 5th IFIP International Conference on Theoretical Computer Science, IFIP International Federation for Information Processing Series, pp. 317–332, Springer-Verlag, September 2008.

40. L. Aceto, A. Ingólfssdóttir and M. Mousavi. Impossibility Results for the Equational Theory of Timed CCS. In the Proceedings of Algebra and Coalgebra in Computer Science, 2nd Conference, CALCO 2007 (Ugo Montanari, Till Mossakowski and Magne Haveraaen editors), Bergen, Norway, 20–24 August 2007, Lecture Notes in Computer Science 4624, pp. 80–95, Springer-Verlag, 2007.
41. L. Aceto, A. Ingólfssdóttir, M. Mousavi and M. Reniers. A Rule Format for Unit Elements. To appear in the Proceedings of *SOFSEM 2010*, Lecture Notes in Computer Science, Springer-Verlag, 2010.
42. L. Aceto, A. Ingólfssdóttir, C. Prisacariu and J. Sack. Compositional Reasoning for Epistemic Logics. To appear in the Proceedings of *LFCS 2013*, Lecture Notes in Computer Science. Springer-Verlag, 2013.
43. L. Aceto, A. Ingólfssdóttir and J. Sack. Characteristic Formulae for Fixed-Point Semantics: A General Framework. To appear in the Proceedings of *EXPRESS 2009*, Electronic Proceedings in Theoretical Computer Science.
44. L. Aceto, A. Morichetta and F. Tiezzi. Decision Support for Mobile Cloud Computing Applications via Model Checking. *Proceedings of the 3rd IEEE International Conference on Mobile Cloud Computing, Services, and Engineering*, IEEE Computer Society, 2015. To appear.
45. A. Achilleos. The Completeness Problem for Modal Logic. Proceedings of the Symposium on LOGICAL FOUNDATIONS OF COMPUTER SCIENCE (LFCS'18), Lecture Notes in Computer Science, Springer, December 2017. To appear.
46. G. Agnarsson, Magnús M. Halldórsson and E. Losievskaja. SDP-based Algorithms for Maximum Independent Set Problems on Hypergraphs. To appear in the *Proceedings of ICALP 2009*, Lecture Notes in Computer Science, Springer-Verlag, 2009.
47. Derek Aguiar, Bjarni Halldórsson, Eric Morrow and Sorin Istrail. DELISHUS: A Fast and Accurate Algorithm for Computing Genomic Deletion Variation with Applications to Autism. Proceedings of ISMB 2012, Intelligent systems in Molecular Biology, 2012.
48. Yusuke Aoki, Bjarni V. Halldórsson, Magnús M. Halldórsson, Takehiro Ito, Christian Konrad, Xiao Zhou. The Minimum Vulnerability Problem on Graphs. *Proceedings of the 8th Annual International Conference on Combinatorial Optimization and Applications (COCO A 2014)*, Lecture Notes in Computer Science, pp. 299–313, Springer, 2014.
49. E. I. Ásgeirsson. Bridging the gap between self schedules and feasible schedules in staff scheduling. *Proceedings of the 8th International Conference on the Practice and Theory of Automated Timetabling (PATAT)*, pp. 81–96, 2010.



50. E. I. Ásgeirsson, G. S. Axelsdóttir and H. Stefánsson. Automating a manual production scheduling process at a pharmaceutical company. *IEEE Symposium Series in Computational Intelligence, Workshop on Computational Intelligence in Production and Logistics Systems (CIPLS)*, 2011.
51. Eyjólfur Ingi Ásgeirsson, Magnús M. Halldórsson and Pradipta Mitra. Wireless Network Stability in the SINR Model. *Proceedings of SIROCCO 2012*, Lecture Notes in Computer Science, Springer, 2012. To appear.
52. Eyjólfur Ingi Ásgeirsson, Magnús M. Halldórsson and Pradipta Mitra. Distributed Algorithms for Throughput Performance in Wireless Networks (brief announcement). To appear in the Proceedings of PODC 2012, ACM Press, 2012.
53. Eyjólfur I. Ásgeirsson, Magnús M. Halldórsson, Pradipta Mitra. Maximum MIMO Flow in Wireless Networks under the SINR Model. In *Proceedings of the 12th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOPT)*, May 2014.
54. Eyjólfur I. Ásgeirsson, Magnús M. Halldórsson, Tigran Tonoyan. Universal Framework for Wireless Scheduling Problems. In *Proc. 44th International Conference on Automata, Languages, and Programming (ICALP)*, Warzaw, Poland, July 2017. To appear.
55. E. I. Ásgeirsson, J. Kyngäs, K. Nurmi and M. Stølevik. A Framework for Implementation-Oriented Staff Scheduling. *5th Multidisciplinary International Scheduling Conference: Theory & Applications (MISTA)*, 2011.
56. Eyjólfur Ingi Ásgeirsson and Pradipta Mitra. On a game theoretic approach to capacity maximization in wireless networks. *Proceedings of INFOCOM 2011*, IEEE Computer Society, 2011.
57. Eyjólfur Ingi Ásgeirsson, Magnús M. Halldórsson and Pradipta Mitra. A Fully Distributed Algorithm for Throughput Performance in Wireless Networks. *Proceedings of CISS 2012, 46 Annual Conference on Information Sciences and Systems*, 2012.
58. S. Avgustinovich, S. Kitaev: On uniquely k-determined permutations, Proceedings of the *The 19th International Conference on Formal Power Series & Algebraic Combinatorics*, Nankai University, Tianjin, China, July 2–6 (2007).
59. U.T. Bachman, Magnús M. Halldórsson and H. Shachnai. Online Scheduling Intervals and  $t$ -Intervals. To appear in the Proceedings of SWAT 2010.
60. Razieh Behjati, Marjan Sirjani and Majid Nili Ahmadabadi. Bounded Rational Search for On-the-fly Model Checking of LTL Properties. To appear in the Proceedings of IPM International Conference on Fundamentals of Software Engineering (FSEN09), Iran, April 15–17 2009, Lecture Notes in Computer Science, Springer-Verlag, 2009.

61. Arnar Birgisson, Mohan Dhawan, Ulfar Erlingsson, Vinod Ganapathy and Liviu Iftode. Enforcing Authorization Policies using Transactional Memory Introspection. To appear in the Proceedings of the 15th ACM Computer and Communications Security Conference (CCS 2008), 28-31 October, Alexandria, VA, USA.
62. Arnar Birgisson and Ulfar Erlingsson. An Implementation and Semantics for Transactional Memory Introspection in Haskell. Proceedings of the 4th ACM SIGPLAN Workshop on Programming Languages and Analysis for Security, 2009. To appear.
63. Yngvi Björnsson, Vadim Bulitko and Nathan Sturtevant. TBA\*: Time-Bounded A\*. Proceedings of IJCAI09, 2009.
64. Yngvi Björnsson, Markus Enzenberger, Robert Holte and Jonathan Schaeffer. Fringe search: Beating A\* at Pathfinding on Computer Game Maps. Proceedings of the IEEE Symposium on Computational Intelligence in Games (CIG'05), April 4-6, Colchester, Essex, UK, pp. 125–132, 2005.
65. Yngvi Björnsson and Kári Halldórsson. Improved Heuristics for Optimal Path-finding on Game Maps. Proceedings of AIIDE 2006, pp. 9–14, 2006.
66. Yngvi Björnsson, Ryan Hayward, Michael Johanson and Jack van Rijswijk. Dead Cell Analysis in Hex and the Shannon Game. Graph Theory in Paris: Proceedings of a Conference in Memory of Claud Berge (CT'04 Paris), pp. 45–60, 2006.
67. Yngvi Björnsson and Jónheidur Isleifsdóttir. GTQL: A Query Language for Game Trees. Proceedings of the Computer Games Workshop, Amsterdam, The Netherlands, pp. 205–216, 2007.
68. Yngvi Björnsson, Jonathan Schaeffer and Nathan R. Sturtevant. Partial Information Endgame Databases. Proceedings of Advances in Computer Games 11, pp. 11–22, 2006.
69. Yngvi Björnsson and Stephan Schiffel. Comparison of GDL reasoners. In IJCAI'13 Workshop on General Intelligence in Game Playing Agents (GIGA'13), pages 55–62, 2013.
70. Marijke H. L. Bodlaender, Magnús M. Halldórsson, Pradipta Mitra. Connectivity and Aggregation in Multihop Wireless Networks. In *Proc. 32nd ACM Symposium on Principles of Distributed Computing (PODC)*, July 2013.
71. Marijke Bodlaender and Magnús M. Halldórsson. Beyond Geometry: Towards Fully Realistic Wireless Models. *Proceedings of PODC 2014, ACM Symposium on Principles of Distributed Computing*, ACM, 2014.

72. Marijke Bodlaender, Magnús M. Halldórsson, Christian Konrad and Fabian Kuhn. Brief Announcement: Local Independent Set Approximation. *Proceedings of PODC 2016, ACM Symposium on Principles of Distributed Computing*, ACM, 2016.
73. F. Bonchi, M. Bonsangue, G. Caltais, J. Rutten and A. Silva. Final semantics for decorated traces. To appear in the *Proceedings of the Twenty-eighth Conference on the Mathematical Foundations of Programming Semantics*, Electronic Notes in Theoretical Computer Science, Elsevier, 2012.
74. M. Bonsangue, G. Caltais, E. Goriac, D. Lucanu, J. Rutten and A. Silva. A decision procedure for bisimilarity of generalized regular expressions. To appear in the Proceedings of the 13th Brazilian Symposium on Formal Methods (SBMF'2010), Lecture Notes in Computer Science, Springer-Verlag, 2010.
75. M. Bousquet-Mélou, A. Claesson, M. Dukes, and S. Kitaev. Unlabeled  $(2 + 2)$ -free posets, ascent sequences and pattern avoiding permutation. To appear in Proceedings of the 21th International Conference on Formal Power Series and Algebraic Combinatorics, Hagenberg, Austria, July 20–24 (2009).
76. D. Bresolin, D. Della Monica, A. Montanari, P. Sala, and G. Sciavicco. On the Complexity of Fragments of the Modal Logic of Allen's Relations over Dense Structures. To appear in the Proceedings of the 9th International Conference on Language and Automata Theory and Applications (LATA), Lecture Notes in Computer Science, Springer Verlag, 2015.
77. Davide Bresolin, Dario Della Monica, Angelo Montanari and Guido Sciavicco. A Tableau System for Right Propositional Neighborhood Logic over Finite Linear Orders: an Implementation. Proceedings of Tableaux 2013: Automated Reasoning with Analytic Tableaux and Related Methods, Lecture Notes in Computer Science, Springer, 2013.
78. Davide Bresolin, Dario Della Monica, Angelo Montanari, Pietro Sala and Guido Sciavicco. Interval Temporal Logics over Finite Linear Orders: the Complete Picture. To appear in the Proceedings of the 20th European Conference on Artificial Intelligence (ECAI 2012), 2012.
79. Davide Bresolin, Dario Della Monica, Angelo Montanari, Pietro Sala and Guido Sciavicco. Interval Temporal Logics over Strongly Discrete Linear Orders: the Complete Picture. To appear in the Proceedings of the 3rd International Symposium on Games, Automata, Logics and Formal Verification (GandALF), Electronic Proceedings in Theoretical Computer Science, 2012.
80. M. Bucci, A. De Luca, A. Glen, L.Q. Zamboni. A new characteristic property of rich words. To appear in Proceedings of the 12th Mons Theoretical Computer Science Days, 2008.

81. Samuel Bucheli, Roman Kuznets, Bryan Renne, Joshua Sack and Thomas Studer. Justified Belief Change. To appear in the *Proceedings of the International Workshop on Logic and Philosophy of Knowledge, Communication and Action*, The University of the Basque Country Press, 2010.
82. Vadim Bulitko and Yngvi Björnsson. kNN LRTA\*: Simple Subgoaling for Real-Time Search. Proceedings of the Artificial Intelligence and Interactive Digital Entertainment conference (AIIDE), Stanford, California, pp. 2–7, 2010.
83. Vadim Bulitko, Yngvi Björnsson, Mitja Luvstrek, Jonathan Schaeffer and Sverrir Sigmundarson. Dynamic Control in Path-Planning with Real-Time Heuristic Search. Proceedings of the International Conference on Automated Planning and Scheduling (ICAPS'07), September 22-26, Providence, RI, USA, pp. 49–56, 2007.
84. Vadim Bulitko, Yngvi Björnsson, Nathan Sturtevant and Ramon Lawrence. Real-time Heuristic Search for Pathfinding in Video Games. *Artificial Intelligence for Computer Games*, Springer-Verlang, 2010. In press.
85. S. Capobianco. Induced Subshifts and Cellular Automata. To appear in the Proceedings of the 2nd International Conference on Language and Automata Theory and Applications (LATA 2008).
86. J. Cassaigne, T. Kärki and L.Q. Zamboni. Relationally periodic sequences and subword complexity. Lecture Notes in Computer Science 5257, pp. 196–205, 2008.
87. I. Cassar, A. Francalanza, L. Aceto and A. Ingólfssdóttir. eAOP — An Aspect Oriented Programming Framework for Erlang. *Proceedings of the 16th ACM Erlang Workshop 2017*, ACM Press 2017.
88. I. Cassar, A. Francalanza, L. Aceto and A. Ingólfssdóttir. A Survey of Runtime Monitoring Instrumentation Techniques. *Proceedings of PrePost 2017*, Electronic Proceedings in Theoretical Computer Science, September 2017.
89. I. Cassar, A. Francalanza, D.P. Attard, L. Aceto and A. Ingólfssdóttir. A generic instrumentation tool for Erlang. *Proceedings of RV-CuBES 2017 (International Workshop on Competitions, Usability, Benchmarks, Evaluation, and Standardisation for Runtime Verification Tools)*, Kalpa Publications in Computing, EasyChair, 2017. To appear.
90. I. Cassar, A. Francalanza, D.P. Attard, L. Aceto and A. Ingólfssdóttir. A Suite of Monitoring Tools for Erlang. *Proceedings of RV-CuBES 2017 (International Workshop on Competitions, Usability, Benchmarks, Evaluation, and Standardisation for Runtime Verification Tools)*, Kalpa Publications in Computing, EasyChair, 2017. To appear.

91. Daniele Catanzaro, Martine Labbé and Bjarni Halldorsson. A Mixed Integer Programming Model for the Parsimonious Loss of Heterozygosity Problem. To appear in the *Proceedings of ISBRA 2012*, Lecture Notes in Computer Science, Springer-Verlag, 2012.
92. Di Chen, Christian Konrad, Ke Yi, Wei Yu, Qin Zhang. Robust Set Reconciliation. *Proceedings of the International Conference on Management of Data, SIGMOD 2014*, pp. 135–146, ACM 2014.
93. Fan Chung, Anders Claesson, Mark Dukes and Ronald Graham Descent polynomials for permutations with bounded drop size. To appear in the *Proceedings of the 22nd International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2010)*, San Francisco State University, August 2–6, 2010.
94. Matteo Cimini, MohammadReza Mousavi, Michel Reniers and Murdoch Gabbay. Nominal SOS. To appear in the *Proceedings of the Twenty-eighth Conference on the Mathematical Foundations of Programming Semantics*, Electronic Notes in Theoretical Computer Science, Elsevier, 2012.
95. M. Cimini, C. Sacerdoti Coen and D. Sangiorgi.  $\lambda$ -barmumutilde calculus,  $\pi$ -calculus, and abstract machines. To appear as a short paper in the Proceedings of *EXPRESS 2009*, Electronic Proceedings in Theoretical Computer Science.
96. M. Cimini, C. Sacerdoti Coen and D. Sangiorgi. Functions as processes: termination and the  $\lambda$ -bar- $\mu$ -mutilde-calculus. To appear in the Proceedings of *Trustworthy Global Computing 2010*, Lecture Notes in Computer Science, Springer-Verlag, 2010.
97. A. Claesson, V. Jelinek, E. Jelinkova and S. Kitaev. Pattern avoidance in partial permutations. To appear in the *Proceedings of the 22nd International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2010)*, San Francisco State University, August 2–6, 2010.
98. A. Claesson and S. Kitaev. Classification of bijections between 321- and 132-avoiding permutations. In *The proceedings of the 20th International Conference on Formal Power Series and Algebraic Combinatorics, Valparaiso, Chile*, 2008.
99. Anders Claesson and Svante Linusson.  $n!$  matchings,  $n!$  posets. To appear in the *Proceedings of the 22nd International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2010)*, San Francisco State University, August 2–6, 2010.
100. Anders Claesson and Henning Ulfarsson. Sorting and preimages of pattern classes. To appear in the *Proceedings of the 24th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2012)*, Nagoya University, July 30–August 3, 2012.

101. Ágnes Cseh, Robert W. Irving, David F. Manlove. The Stable Roommates problem with short lists. Proceedings of SAGT 2016. To appear.
102. Ágnes Cseh, Telikepalli Kavitha. Popular Edges and Dominant Matchings. Proceedings of IPCO 2016, pp. 138–151, 2016.
103. D. Della Monica, A. Montanari, G. Sciavicco, and D. Tishkovsky. First steps towards automated synthesis of tableau systems for interval temporal logics. In Proceedings of the 5th International Conference on Computational Logics, Algebras, Programming, Tools, and Benchmarking (COMPUTATION TOOLS), pages 32–37, 2014. Best paper award.
104. Dario Della Monica, Margherita Napoli and Mimmo Parente A lower bound in model checking coalitional games in shortage resource scenarios. To appear in the *Proceedings of the Fourth International Symposium on Games, Automata, Logics and Formal Verification (Gandalf 2013)*, Electronic Notes in Theoretical Computer Science, 2013.
105. F. Deschesne, M.R. Mousavi and S. Orzan, Operational and Epistemic Approaches to Protocol Analysis: Bridging the Gap, Proceedings of the 14th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR’07), Yerevan, Armenia, volume 4790 of Lecture Notes in Artificial Intelligence, pages 226–241, Springer-Verlag, October 2007.
106. Mark Dukes and Toufik Mansour, Involutions avoiding the class of permutations in  $S_k$  with prefix 12. *19th International Conference on Formal Power Series and Algebraic Combinatorics*, Nankai, China, 2007.
107. Mark Dukes, Vít Jelínek, Toufik Mansour and Astrid Reifegerste. Equivalences for pattern avoiding involutions and classification. *20th International Conference on Formal Power Series & Algebraic Combinatorics*, Valparaiso, Chile, 2008.
108. R. Ehrenborg, S. Kitaev, P. Perry: A Spectral Approach to Pattern-Avoiding Permutations, Proceedings of the *The 18th International Conference on Formal Power Series & Algebraic Combinatorics*, the University of California, San Diego, USA, June 19–23 (2006).
109. Yuval Emek, Magnús M. Halldórsson, Yishay Mansour, Boaz Patt-Shamir, Jaikumar Radhakrishnan and Dror Rawitz. Online set packing and competitive scheduling of multi-part tasks. To appear in *Proc. 29th ACM Symposium on Principles of Distributed Computing (PODC)*, 2010.
110. Yuval Emek, Magnús M. Halldórsson and Adi Rosen. Space-Constrained Interval Selection. To appear in the Proceedings of ICALP 2012, Lecture Notes in Computer Science, Springer-Verlag, 2012.

111. Leah Epstein, Magnús M. Halldórsson, Asaf Levin, Hadas Shachnai. Weighted Sum Coloring in Batch Scheduling of Conflicting Jobs. AP-PROX '06, Barcelona. Springer Lecture Notes in Computer Science, Vol. 4271. LNCS.
112. Michael Fellows, Fedor Fomin, Daniel Lokshtanov, Elena Losievskaja, Frances A. Rosamond and Saket Saurabh. Distortion is Fixed Parameter Tractable. To appear in the *Proceedings of ICALP 2009*, Lecture Notes in Computer Science, Springer-Verlag, 2009.
113. Hilmar Finnsson and Yngvi Björnsson. Simulation-Based Approach to General Game Playing. The Twenty-Third AAAI Conference on Artificial Intelligence, AAAI Press, 2008. To appear.
114. Hilmar Finnsson and Yngvi Björnsson. Learning Simulation Control in General Game-Playing Agents. The Twenty-Fourth AAAI Conference on Artificial Intelligence, AAAI Press, 2010.
115. Pierre Fraigniaud, Magnús M. Halldórsson, Amos Korman. On the Impact of Identifiers on Local Decision. In *16th International Conference On Principles Of Distributed Systems (OPODIS)*, December 17th-21th, 2012.
116. Pierre Fraigniaud, Magnús M. Halldórsson, Boaz Patt-Shamir, Dror Rawitz, Adi Rosen. Shrinking Maxima, Decreasing Costs: New Online Packing and Covering Problems. In *Proc. 16th. International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX'2013)*, LNCS, 2013.
117. A. Francalanza, L. Aceto and A. Ingólfssdóttir. On Verifying Hennessy-Milner Logic with Recursion at Runtime. *Proceedings of the 15th International Conference on Runtime Verification (RV 2015)*, Lecture Notes in Computer Science, Springer Verlag, 2015. To appear.
118. Takuro Fukunaga, Magnús M. Halldórsson, Hiroshi Nagamochi. "Rent-or-Buy" scheduling and cost coloring problems. In *Proc. 27th Int'l Conf. on Foundations of Software Technology and Theoretical Computer Science (FSTTCS)*, New Delhi, India, December 2007, Springer LNCS #4855.
119. Takuro Fukunaga, Magnús M. Halldórsson, Hiroshi Nagamochi. Robust Cost Colorings. In *Proc. 18th SIAM-ACM Symposium on Discrete Algorithms (SODA)*, San Francisco, January 2008.
120. Rajiv Gandhi, Magnús M. Halldórsson, Christian Konrad, Guy Kortsarz and Hoon Oh. Radio Aggregation Scheduling. Proceedings of ALGOSENSORS 2015, 17 -18 September, Patras, Greece.
121. Daniel Gebler, Eugen-Ioan Goriac and Mohammadreza Mousavi. Algebraic Meta-Theory of Processes with Data. *Proceedings of EXPRESS/SOS*

- 2013: *Combined 20th International Workshop on Expressiveness in Concurrency and 10th Workshop on Structural Operational Semantics*, Electronic Proceedings in Theoretical Computer Science, 2013. To appear.
122. A.H. Ghamarian, M. Geilen, T. Basten, B. Theelen, M.R. Mousavi and S. Stuijk. Liveness and Boundedness of Synchronous Data Flow Graphs, Proceedings of the 6th International Conference on Formal Methods in Computer-Aided Design (FMCAD'06), San Jose, CA, USA, IEEE CS, pp. 68–75, November 2006.
  123. A. Glen, B.V. Halldórsson and S. Kitaev. Crucial words for abelian powers. Proceedings of DLT 2009, Lecture Notes in Computer Science 5583 (2009) 264–275, Springer-Verlag, 2009.
  124. E. I. Goriac, D. Lucanu and G. Rosu. Automating Coinduction with Case Analysis. *Proceedings of ICFEM 2010*, Lecture Notes in Computer Science, Springer-Verlag, 2010.
  125. Olga Goussevskaja, Magnús M. Halldórsson, Roger Wattenhofer and Emo Welzl. The Capacity of Arbitrary Wireless Networks. To appear in the Proceedings of INFOCOM 2009.
  126. Helga Gudmundsdottir, Eyjólfur I. Ásgeirsson, Marijke H. L. Bodlaender, Joseph T. Foley, Magnús M. Halldórsson, Ymir Vigfusson. Wireless Scheduling Algorithms in Complex Environments. In *Proc. 17th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)*, Montreal, Canada, September 2014.
  127. B.A. Gudmundsson, T.K. Magnússon and B.O. Sæmundsson. Bounds and Fixed-Parameter Algorithms for Weighted Improper Coloring. Proceedings of the 16th Italian Conference on Theoretical Computer Science (ICTCS 2015), Electronic Notes in Theoretical Computer Science, Elsevier, 2015.
  128. Stefan Freyr Gudmundsson and Yngvi Björnsson. Sufficiency-based selection strategy for MCTS. In Francesca Rossi, editor, *IJCAI 2013*, Proceedings of the 23rd International Joint Conference on Artificial Intelligence, Beijing, China, August 3–9, 2013, pages 559–565. *IJCAI/AAAI*, 2013.
  129. V. Gudmundsson, M. Lindvall, L. Aceto, J. Bergthorsson and D. Ganesan. Model-based testing of mobile systems — An empirical study on QuizUp Android App. *Proceedings of the First International Workshop on Pre- and Post-Deployment Verification Techniques (PrePost 2016)*, Electronic Proceedings in Theoretical Computer Science 208, pp. 16–30, 25 May 2016.
  130. Bjarni V. Halldórsson, Derek Aguiar, Sorin Istrail. Haplotype Phasing by Multi-Assembly of Shared Haplotypes: Phase-Dependent Interactions Between Rare Variants. Proceedings of the Pacific Symposium on Bio-computing, 2011, to appear.



131. B.V. Halldorsson, Derek Aguiar, Ryan Tarpine, Sorin Istrail. The Clark Phase-able Sample Size Problem: Long-range Phasing and Loss of Heterozygosity in GWAS. To appear in the Proceedings of RECOMB 2010.
132. Bjarni V. Halldorsson, Dima Blokh and Roded Sharan. Estimating population size via line graph reconstruction. To appear in the Proceedings of WABI 2012.
133. B.V. Halldorsson, Magnús M. Halldórsson, E. Losievskaja and M. Szegedy. Streaming Algorithms for Independent Sets. To appear in the *Proceedings of ICALP 2010*.
134. Magnús M. Halldórsson. Wireless scheduling with power control. To appear in the Proceedings of the 17th European Symposium on Algorithms (ESA 2009), Lecture Notes in Computer Science, Springer-Verlag, 2009.
135. Magnús M. Halldórsson. Locality in wireless scheduling (Brief announcement). In *Proc. 25th ACM Symposium on Parallelism in Algorithms and Architectures (SPAA)*, July 2013.
136. Magnús M. Halldórsson. Modeling Reality Algorithmically: The Case of Wireless Communication. Invited paper to *Proc. 9th Int. Symp. on Algorithms and Experiments for Sensor Systems, Wireless Networks and Distributed Robotics (ALGOSENSORS)*, Sophia Antipolis, France, September 5–6, 2013. Springer LNCS # 8243, 1–5.
137. Magnús M. Halldórsson. Progress (and Lack Thereof) for Graph Coloring Approximation Problems. Invited paper to *Proc. 41st International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM)*, Pec pod Snezkou, Czech Republic, Springer LNCS, January 2015.  
Magnús M. Halldórsson. Invited Paper: Models for Wireless Algorithms. In *Proc. 14th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOPT)*, Tempe, Arizona, May 2016.
138. Magnús M. Halldórsson, Stephan Holzer, Nancy Lynch. A Local Broadcast Layer for the SINR Network Model. In *Proc. 34th ACM Symposium on Principles of Distributed Computing (PODC)*, San Sebastian, Spain, July 2015.
139. Magnús M. Halldórsson, Stephan Holzer, Pradipta Mitra, Roger Wattenhofer. The Power of Non-Uniform Wireless Power. In *Proc. 24th ACM-SIAM Symposium on Discrete Algorithms (SODA)*, New Orleans, January 2013.
140. Magnús M. Halldórsson, Toshimasa Ishii, Kazuhisa Makino and Kenjiro Takazawa. Posimodular Function Optimization. In *Proc. Algorithms and*

- Data Structures Symposium (WADS)*, St. John's, Canada, July 2017. To appear.
141. Magnús M. Halldórsson, S. Kitaev and A. Pyatkin. Graphs Capturing Alternations in Words. Proceedings of Developments in Language Theory 2010, Lecture Notes in Computer Science 6224, pp. 436–437, 2010.
  142. Magnús M. Halldórsson and Christian Konrad. Distributed Algorithms for Coloring Interval Graphs. In *Proc. 28th International Symposium on Distributed Computing (DISC)*, Austin, Texas, October 2014.
  143. Magnús M. Halldórsson, Christian Konrad. Distributed Large Independent Sets in One Round On Bounded-independence Graphs. In *Proc. 29th International Symposium on Distributed Computing (DISC)*, Tokyo, Japan, October 2015.
  144. Magnús M. Halldórsson, G. Kortsarz, P. Mitra and T. Tonoyan. Spanning Trees With Edge Conflicts and Wireless Connectivity. In *Proceedings of ICALP 2018*, LIPIcs, July 2018.
  145. Magnús M. Halldórsson, Sven Köhler, Boaz Patt-Shamir and Dror Rawitz. Distributed Backup Placement in Networks. Proceedings of SPAA 2015, the 27th ACM Symposium on Parallelism in Algorithms and Architectures, Portland, Oregon, USA June 13-15, 2015.
  146. Magnús M. Halldórsson, Sven Köhler, Dror Rawitz. Distributed Approximation of  $k$ -Service Assignment. In *Proc. 19th International Conference On Principles Of Distributed Systems (OPODIS)*, Rennes, France, December 2015. LIPIcs vol. 46, 2016.
  147. Magnús M. Halldórsson, Pradipta Mitra. Towards Tight Bounds for Local Broadcasting. In *Proc. 8th ACM SIGACT/SIGMOBILE International Workshop on Foundations of Mobile Computing (FOMC)*, 2012.
  148. Magnús M. Halldórsson and Tigran Tonoyan. How Well Can Graphs Represent Wireless Interference?. In *Proc. 47th ACM Symposium on Theory of Computing (STOC)*, Portland, Oregon, June 2015.
  149. Magnús M. Halldórsson and Tigran Tonoyan. Limitations of Current Wireless Scheduling Algorithms. Proceedings of ALGOSENSORS 2015, 17 -18 September, Patras, Greece.
  150. Magnús M. Halldórsson and Tigran Tonoyan. The Price of Local Power Control in Wireless Scheduling. Proceedings of FSTTCS 2015, the 35th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science, Indian Institute of Science, Bangalore. December 16–18, 2015.

151. Magnús M. Halldórsson, Tigran Tonoyan. Wireless Link Capacity under Shadowing and Fading. In *Proc. Eighteenth International Symposium on Mobile Ad Hoc Networking and Computing (ACM MobiHoc)*, Chennai, July 2017. To appear.
152. Magnús M. Halldórsson, Tigran Tonoyan, Yuexuan Wang and Dongxiao Yu. Brief Announcement: Data Dissemination in Unified Dynamic Wireless Networks. *Proceedings of PODC 2016*, ACM.
153. Magnús M. Halldórsson, Tigran Tonoyan, Yuexuan Wang and Dongxiao Yu. Dynamic Adaptation in Wireless Networks Under Comprehensive Interference Via Carrier Sense. In *Proc. 31st IEEE International Parallel & Distributed Processing Symposium (IPDPS)*, May 29 – June 2, 2017, Orlando, Florida.
154. Magnús M. Halldórsson, Yuexuan Wang and Dongxiao Yu. Leveraging Multiple Channels in Ad Hoc Networks. In *Proc. 34th ACM Symposium on Principles of Distributed Computing (PODC)*, San Sebastian, Spain, July 2015.
155. K.V. Jonsson, K. Palmkog and Y. Vigfusson. Secure Distributed Top- $k$  Aggregation. In IEEE International Conference on Communications (ICC), Ottawa, Canada. June, 2012.
156. K.V. Jonsson and Y. Vigfusson. Bootstrapping Trust in Networked Measurement Systems with Secure Sensors. In IEEE Sensors Applications Symposium (SAS), Brescia, Italy. February 2012
157. K.V. Jonsson and Y. Vigfusson. Robust Authentication in Trusted Sensing Networks with Physically Uncloneable Functions. In 17th Nordic Conference in Secure IT Systems (NordSec). October, 2012. (Short paper).
158. K.V. Jonsson, Y. Vigfusson and O.R. Helgason. Simulating Large-Scale Dynamic Random Graphs in OMNeT++. In 5th International Workshop on OMNeT++ joint with SIMUTools, Desenzano, Italy. March, 2012.
159. Magnús M. Halldórsson. S. Kitaev and A. Pyatkin. Alternation graphs. To appear in the Proceedings of the 37th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2011, Tepla Monastery, Czech Republic, June 21-24, 2011, Lecture Notes in Computer Science, Springer-Verlag.
160. Magnús M. Halldórsson and P. Mitra. Wireless Capacity with Oblivious Power in General Metrics. In *Proc. 22nd ACM-SIAM Symposium on Discrete Algorithms (SODA)*, San Francisco, California, January 2011.
161. Magnús M. Halldórsson and P. Mitra. Nearly Optimal Bounds for Distributed Wireless Scheduling in the SINR Model. In *Proc. 38th International Conference on Automata, Languages, and Programming (ICALP)*, July 2011. Springer LNCS 6756.

162. Magnús M. Halldórsson and P. Mitra. Wireless Capacity With Arbitrary Gain Matrix. To appear in Proc. 7th Int. Symp. Algorithms for Sensor Systems, Wireless Ad Hoc Networks and Autonomous Mobile Entities (ALGOSENSORS), September 2011, Springer LNCS.
163. Magnús M. Halldórsson and P. Mitra. Wireless Connectivity and Capacity. In Proc. 23rd ACM-SIAM Symposium on Discrete Algorithms (SODA), Kyoto, Japan, January 2012.
164. Magnús M. Halldórsson and P. Mitra. Algorithms for Weighted Capacity and Admission Control in Wireless Networks. To appear in Proc. 30th Annual IEEE Conference on Computer Communications (INFOCOM), March 2012.
165. Magnús M. Halldórsson and P. Mitra. Distributed Connectivity of Wireless Networks. To appear in the Proceedings of PODC 2012, ACM Press, 2012.
166. Magnús M. Halldórsson, Boaz Patt-Shamir and Dror Rawitz. Online Scheduling with Interval Conflicts. Proceedings of STACS 2011, LIPIcs 9 Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2011, pp. 472–483.
167. Magnús M. Halldórsson and H. Shachnai. Return of the Boss Problem: Competing Online Against a Non-Adaptive Adversary. Proceedings of FUN in Algorithms.
168. Magnús M. Halldórsson, Chengu Wang, Xiaoming Sun and Mario Szegedy. Streaming and Communication Complexity of Clique Approximation. To appear in the Proceedings of ICALP 2012, Lecture Notes in Computer Science, Springer-Verlag, 2012.
169. Magnús M. Halldórsson and R. Wattenhofer. Wireless Communication is in APX. To appear in the *Proceedings of ICALP 2009*, Lecture Notes in Computer Science, Springer-Verlag, 2009.
170. H. Hojjat, M.R. Mousavi, M. Sirjani, A Framework for Performance Evaluation and Verification in Stochastic Process Algebras, Proceedings of the 22nd ACM Symposium on Applied Computing, Software Verification Track (SV'08), Fortaleza, Brazil, ACM Press, March 2008.
171. H. Hojjat, M. Sirjani, M.R. Mousavi, J.F. Groote, Sarir: A Rebeca to mCRL2 Translator (Tool Paper). Proceedings of the 7th International Conference on Application of Concurrency to System Design (ACSD'07), Bratislava, Slovak Republic, IEEE CS, July 2007.
172. Jónheidur Isleifsdóttir and Yngvi Björnsson. GTQ: A Language and Tool for Game-Tree Analysis. Proceedings of Computers and Games 2008. To appear.

173. Mohammad Jaghoori, Olafur Hlynsson and Marjan Sirjani. Networks of Real-Time Actors: Schedulability Analysis and Coordination. Proceedings of FACS 2011, the 8th International Symposium on Formal Aspects of Component Software, Oslo, Norway, September 14–16, 2011. Lecture Notes in Computer Science, Springer-Verlag, to appear.
174. V. Jelinek, E. Jelinkova and E. Steingrímsson. The Möbius function of separable permutations. To appear in the *Proceedings of the 22nd International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2010)*, San Francisco State University, August 2–6, 2010.
175. K.V. Jónsson and Y. Vigfusson. Bootstrapping Trust in Networked Measurement Systems with Secure Sensors. To appear in the Proceedings of IEEE Sensors Applications Symposium, February 2012. .
176. K.V. Jónsson, K. Palmkog and Y. Vigfusson. Secure Distributed Top- $k$  Aggregation. To appear in the Proceedings of IEEE International Conference on Communications 2012, June 2012.
177. Narges Khakpour, Saeed Jalili, Carolyn Talcott, Marjan Sirjani and Mohammad Reza Mousavi. PobsAM: Policy-based Managing of Actors in Self-Adaptive Systems. Proceedings of the 6th International Workshop on Formal Aspects of Component Software (FACS 2009), ENTCS 263, pp. 129-143, Elsevier, 2010.
178. N. Khakpour, R. Khosravi, M. Sirjani and S. Jalili. Formal Analysis of Policy-Based Self-Adaptive Systems. In the *Proceedings of SAC'10*, pp. 2536–2543, 2010.
179. Narges Khakpour, Marjan Sirjani and Saeed Jalili. Formal Analysis of Smart Home Policies using Compositional Verification. To appear in the Proceedings of ICFI 2009, 10th International Conference on Feature Interactions in Telecommunications and Software Systems, 2009.
180. E. Khamespanah, Z. Sabahi Kaviani, R. Khosravi, M. Sirjani and M.J. Izadi. Timed-Rebeca Schedulability and Deadlock-Freedom Analysis Using Floating-Time Transition System. Proceedings of ACM AGERE! 2012.
181. S. Kitaev, J. Liese, J. Remmel, and B. Sagan. Rationality, irrationality, and Wilf equivalence in generalized factor order. *Discrete Math. Theor. Comput. Sci. Proc. AK (2009)* 515–526. Proceedings of the 21st International Conference on Formal Power Series and Algebraic Combinatorics, Hagenberg, Austria, July 20–24 (2009).
182. S. Kitaev, T. Mansour, P. Séébold: Counting ordered patterns in words generated by morphisms, *2nd International Conference on Language and Automata Theory and Applications (LATA)*, Tarragona, Spain, March 13–19 (2008).

183. S. Kitaev, P. Salimov, C. Severs and H. Ulfarsson. On the Representability of Line Graphs. In *Proceedings of Developments of Language Theory 2011*, Lecture Notes in Computer Science, Springer-Verlag 2011.
184. Akihisa Kako, Takao Ono, Tomio Hirata, and Magnús M. Halldórsson. Approximation Algorithms for the Weighted Independent Set Problem. In *Proc. 31st International Workshop on Graph-Theoretic Concepts in Computer Science (WG '05)*, Metz, France, June 2005.
185. Magnús M. Halldórsson, Ragnar K. Karlsson. On split interval graphs and scheduling. In *Proc. 32nd International Workshop on Graph-Theoretic Concepts in Computer Science WG 2006*, Bergen. Springer Lecture Notes in Computer Science, Vol. 4110.
186. Magnús M. Halldórsson, Takeshi Tokuyama. Minimizing Interference of a Wireless Ad-Hoc Network in a Plane In *Proc. 2nd International Workshop, ALGOSENSORS Venice, Italy, July, 2006*, Springer Lecture Notes in Computer Science, Vol. 4240.
187. Magnús M. Halldórsson, Elena Losievskaja. Independent sets in bounded-degree hypergraphs. In *Proc. of 10th Int'l Workshop on Algorithms and Data Structures (WADS)*, Halifax, Canada, August 2007, Springer LNCS #4619.
188. M. M. Jaghoori, O. Hlynsson and M. Sirjani. Networks of Real-Time Actors: Schedulability Analysis and Coordination. In *Proceedings of the 8th International Workshop on Formal Aspects of Component Software (FACS 2011)*, 2011
189. Magnús M. Halldórsson, C. Knauer, A. Spillner, and T. Tokuyama. Parameterized algorithms and complexity of non-crossing spanning trees. In *Proc. of 10th Int'l Workshop on Algorithms and Data Structures (WADS)*, Halifax, Canada, August 2007, Springer LNCS #4619.
190. Christian Konrad. Maximum Matching in Turnstile Streams. To appear in *Proceedings of ESA 2015*, Lecture Notes in Computer Science, Springer Verlag, 2015.
191. Christian Konrad Streaming Partitioning of Sequences and Trees. To appear in *Proceedings of the 19th International Conference on Database Theory (ICDT 2016)*, Leibniz International Proceedings in Informatics (LIPIcs) series, March 2016.
192. Magnús M. Halldórsson, Guy Kortsarz, Maxim Sviridenko. Min Sum Edge Coloring in General Multigraphs via Configuration LP. To appear in *Proc. 13th Conf. on Integer Programming and Combinatorial Optimization (IPCO)*, Bertinoro, May 2008. LNCS.

193. Magnús M. Halldórsson, and Hadas Shachnai. Batch Coloring Flat Graphs and Thin. To appear in the Proceedings of SWAT 2008, Lecture Notes in Computer Science, Springer-Verlag, July 2008.
194. S. Kitaev and J. Remmel. Enumerating  $(2 + 2)$ -free posets by the number of minimal elements and other statistics. Discrete Math. Theor. Comput. Sci. Proc. AK (2010) 689–700. Proceedings of the 22nd International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2010), San Francisco State University, August 2–6, 2010.
195. E. Korshunova, M. Petkovic, M.G.J. van den Brand and M.R. Mousavi. CPP2XMI: Reverse Engineering of UML Class, Sequence, and Activity Diagrams from C++ Source Code (Tool Paper), Proceedings of the 13th Working Conference on Reverse Engineering (WCRE'06), Benevento, Italy, pages 297–298, IEEE CS, October 2006.
196. H. Maarand and T. Uustalu. Certified Foata normalization for generalized traces. Proceedings of the Tenth NASA Formal Methods Symposium (NFM 2018), Lecture Notes in Computer Science, Springer, April 2018. To appear.
197. M.R. Mousavi and M.A. Reniers, A Congruence Rule Format with Universal Quantification, Proceedings of the 4th Workshop on Structural Operational Semantics (SOS'07), Wroclaw, Poland, volume 192 of Electronic Notes in Theoretical Computer Science, pages 109–124, Elsevier Science B.V., July 2007.
198. M.R. Mousavi, M.A. Reniers. On Well-Foundedness and Expressiveness of Promoted Tyft, Proceedings of the 3rd Workshop on Structural Operational Semantics (SOS'06), Bonn, Germany, Electronic Notes in Computer Science, Elsevier, August 2006.
199. M.R. Mousavi, I.C.C. Phillips, M.A. Reniers, I. Ulidowski. The Meaning of Ordered SOS. Proceedings of the 26th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'06), Kolkata, India, volume 4337 of Lecture Notes in Computer Science, pages 334–345, Springer-Verlag, December 2006.
200. B. Pourvatan, M. Sirjani, F. Arbab and M. Bonsangue. Synthesis of Reo Circuits through Decomposition of Complete Constraint Automata. In the *Proceedings of the 7th International Workshop on Formal Aspects of Component Software (FACS 2010)*, October 14–16, 2010, Guimaraes, Portugal.
201. Bahman Pourvatan, Marjan Sirjani, Hossein Hojjat and Farhad Arbab. Analysis of Reo Circuits using Symbolic Execution. To appear in the Proceedings of FOCLASA 09, 8th International Workshop on the Foundations of Coordination Languages and Software Architectures, ENTCS, Elsevier, 2009.

202. Bryan Renne, Joshua Sack and Audrey Yap. Dynamic Epistemic Temporal Logic. To appear in the Proceedings of the Second International Workshop on Logic, Rationality and Interaction (LORI-II), Chongqing, China, October 8-11, 2009, FoLLI-LNAI series, Springer-Verlag, 2009.
203. D. Romero-Hernández, D. de Frutos-Escrig and D. Della Monica. Proving Continuity of Coinductive Global Bisimulation Distances: A Never Ending Story. Proceedings XV Jornadas sobre Programación y Lenguajes (PROLE 2015), Santander, Spain, 15–17th September 2015, Electronic Proceedings in Theoretical Computer Science 200, pp. 48–63, December 2015.
204. Hamideh Sabouri and Marjan Sirjani. Slicing-based Reductions for Rebeca. Proceedings of the 5th International Workshop on Formal Aspects of Component Software (FACS 2008), Electronic Notes in Theoretical Computer Science Volume 260, pp. 209–224, 1 January 2010.
205. Jonathan Schaeffer, Yngvi Björnsson, Neil Burch, Akihiro Kishimoto, Martin Müller, Robert Lake, Paul Lu and Steve Sutphen. Solving Checkers. Proceedings of IJCAI05, pp. 292–297, 2005. (Distinguished Paper Prize, IJCAI’05)
206. Z. Sharifi, M. Mosaffa, S. Mohammadi and M. Sirjani. Functional and Performance Analysis of Network-on-Chips Using Actor-based Modeling and Formal Verification. Proceedings of AVoCS 2013.
207. Z. Sharifi, S. Mohammadi and M. Sirjani. Comparison of NoC Routing Algorithms Using Formal Methods. Proceedings of PDPTA 2013.
208. Sverrir Sigmundarson and Yngvi Björnsson. Value Back-Propagation vs. Backtracking in Real-Time Search. Proceedings of the National Conference on Artificial Intelligence (AAAI), Workshop on Learning For Search, pp. 136–141, AAAI Press, 2006.
209. S. Sigurdarson, M. Sirjani, Y. Björnsson and A. Reynisson. Guided Search for Deadlocks in Actor-Based Models. Proceedings of FACS 2012, LNCS, Springer, 2012.
210. M. Sirjani and M. M. Jaghoori. Ten Years of Analyzing Actors: Rebeca Experience. LNCS 7000, pp. 20–56, 2011.
211. Pálmi Skowronski, Yngvi Björnsson and Mark H. M. Winands. Automatic Discovery of Search-Control Features. Proceedings of the Twelfth International Conference on Advances in Computer Games, pp. 182–194, 2009.
212. Steinunn M. Stefansdottir. Different models for solving Minimum Parsimony Haplotyping. Bioinformatics 2007, conference abstract book, p. 32.



213. Nathan Sturtevant, Vadim Bulitko and Yngvi Björnsson. On Learning in Real-Time Heuristic Search. Proceedings of the 9th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), Toronto, Canada, 2010.
214. Mandy J. W. Tak, Mark H. M. Winands, and Yngvi Björnsson. Decaying simulation strategies. In IJCAI'13 Workshop on General Intelligence in Game Playing Agents (GIGA'13), pages 23–30, 2013.
215. H. Ulfarsson. Permutation Patterns and Singularities of Schubert Varieties. To appear in the *Proceedings of the 22nd International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2010)*, San Francisco State University, August 2–6, 2010.
216. Henning Ulfarsson and Alexander Woo. Which Schubert varieties are local complete intersections? To appear in the *Proceedings of the 24th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2012)*, Nagoya University, July 30–August 3, 2012.
217. Tarmo Uustalu, Niccolò Veltri and Noam Zeilberger. The sequent calculus of skew monoidal categories. *Proceedings of the 34th Conference on the Mathematical Foundations of Programming Semantics (MFPS 2018)*, Electronic Notes in Theoretical Computer Science, Elsevier, 2018.
218. Y. Vigfusson, K. Birman, D.A. Freedman, Q. Huang, K.V. Jonsson and G. Sigurbjornsson. Live Streaming with Utilities, Quality and Cost. In Proc. Principles of Distributed Computing (PODC), Madeira, Portugal. July 2012. (Brief announcement).
219. Mark Winands and Yngvi Björnsson. Monte-Carlo Tree Search Solver. Proceedings of Computers and Games 2008. To appear.
220. Mark Winands and Yngvi Björnsson. Evaluation Function Based Monte-Carlo LOA. Proceedings of the Twelfth International Conference on Advances in Computer Games, pp. 33–44, 2009.

## Abstracts and Other Publications in ISI-indexed Scientific Journals

1. L. Aceto and A. Ingólfssdóttir. Foreword: special issue in memory of Nadia Busi. *Mathematical Structures in Computer Science*, 19(06):1061–1063, December 2009.
2. Gislason, T; Halldorsson, B; Pack, A; Benediktsdottir, B; Thorsteinsdottir, U; Jonsdottir, I; Stefansson, K. Genetics of obstructive sleep apnea. *JOURNAL OF SLEEP RESEARCH* DEC 2008 Suppl. 1. 60  
ISI:000262850300147

3. Richards, J; Kavvoura, FK; Rivadeneira, F; Styrkarsdottir, U; Estrada, K; Halldorsson, B; Hsu, Y; Zillikens, M; Wilson, SG; Mullins, B; Amin, N; Aulchenko, YA; Cupples, L; Deloukas, P; Demissie, S; Hofman, A; Kong, A; Karasik, D; van Meurs, JM; Oostra, B; Pols, HAP; Sigurdsson, G; Thorsteinsdottir, U; Soranzo, N; Williams, FMK; Zhou, Y; Ralston, S; Thorleifsson, G; van Duijn, CM; Kiel, D; Stefansson, K; Uitterlinden, A; Ioannidis, JPA; Spector, TD. A systematic evaluation of 151 candidate genes for their association with osteoporosis and osteoporotic fracture in a meta-analysis of genome-wide association data. BONE JUN 2009 Suppl. S222-S223 ISI:000266348600061
4. Rivadeneira, F; Kavvoura, F; Karasik, D; Richards, B; Halldorsson, B; Hsu, Y; Demissie, S; Cupples, A; Zillikens, C; van Duijn, C; Estrada, K; van Meurs, J; Pols, H; Thorsteinsdottir, U; Brown, M; Spector, T; Ralston, S; Kiel, D; Ioannidis, J; Styrkarsdottir, U. Large-scale Meta-analysis of Genome-wide Association (GWA) Scans for Osteoporosis Traits: the GEFOS Consortium. JOURNAL OF BONE AND MINERAL RESEARCH Suppl. S S27 ISI:000259411000092
5. Rivadeneira, F; Styrkarsdottir, U; Estrada, K; Halldorsson, B; Hsu, Y; Richards, JB; Zillikens, MC; Kavvoura, F; Amin, N; Aulchenko, Y; Cupples, L; Deloukas, P; Demissie, S; Grundberg, E; Hofman, A; Kong, A; Karasik, D; van Meurs, J; Oostra, B; Pastinen, T; Pols, HAP; Sigurdsson, G; Soranzo, N; Thorleifsson, G; Thorsteindottir, U; Williams, F; Wilson, S; Zhou, Y; Ralston, S; van Duijn, C; Spector, T; Kiel, D; Stefansson, K; Ioannidis, J; Uitterlinden, AG. Twenty loci associated with bone mineral density identified by large-scale meta-analysis of genome-wide association datasets. BONE JUN 2009 Suppl. S230-S231 ISI:000266348600078
6. Sigurdsson, G; Halldorsson, BV; Styrkarsdottir, U. The impact of genetics on low bone mass in adults. CALCIFIED TISSUE INTERNATIONAL S148
7. Sigurdsson, G; Styrkarsdottir, U; Halldorsson, BV; Stefansson, K. Variants in the LRP5 gene influence RMD both through common variants of small effect and rare mutations of large effect in osteoporotic families. BONE JUN2009 Suppl. S223-S224 ISI:000266348600063