

# List of Publications

Henning Bordihn

## 1 Theses

- [P1] H. Bordihn: Contributions to the Syntactical Analysis Beyond Context-Freeness. Habilitation, [urn:nbn:de:kobv:517-opus-59719](https://nbn-resolving.org/urn:nbn:de:kobv:517-opus-59719), Institutional Repository of the University of Potsdam, Germany, 2012.
- [P2] H. Bordihn: Über den Determiniertheitsgrad reiner Versionen formaler Sprachen (On the Degree of Non-Determinism of Pure Formal Languages). Dissertation, Technische Universität ‘Otto-von-Guericke’ Magdeburg, Germany, 1992.
- [P3] H. Bordihn: Über deterministische Grammatiken mit Bewertungen (On Deterministic Grammars with Valuations). Diplomarbeit, Technische Hochschule ‘Otto-von-Guericke’ Magdeburg, Germany, 1986.

## 2 Editorial Work

- [P1] H. Bordihn, B. Truthe: *24. Theorietag Automaten und Formale Sprachen*. Preprint TR 2014-2, Institut für Informatik und Computational Science, Universität Potsdam, 2014.
- [P2] H. Bordihn, M. Kutrib, B. Truthe: *Languages Alive*. LNCS 7300, Springer-Verlag Berlin-Heidelberg, 2012.
- [P3] H. Bordihn, J. Dassow, M. Kutrib, B. Truthe: *Selected Papers Dedicated to Friedrich Otto on the Occasion of his 60th Birthday*. Special Issue of the Journal of Automata, Languages and Combinatorics **16**(2–4), 2011.
- [P4] H. Bordihn, R. Freund, M. Holzer, M. Kutrib, F. Otto: *Second Workshop on Non-Classical Models for Automata and Applications (NCMA)*. [books@ocg.at](mailto:books@ocg.at) **263**, Österreichische Computer Gesellschaft, Wien, Österreich, 2010.
- [P5] H. Bordihn, R. Freund, M. Holzer, M. Kutrib, F. Otto: *Non-Classical Models of Automata and Applications (NCMA)*. [books@ocg.org](mailto:books@ocg.org), **256**, Österreichische Computer Gesellschaft, Wien, Österreich, 2009.

- [P6] H. Bordihn, B. Reichel, R. Stiebe, B. Truthe: *Aspects in Language and Automata Theory*. Special Issue of the International Journal of Foundations of Computer Science **18**(6), 2007.
- [P7] S. Bensch, O. Boldt, H. Bordihn, H. Jürgensen: *Workshop Formale Methoden der Linguistik und 14. Theorietag Automaten und Formale Sprachen*. Preprint 2/2004, Institut für Informatik, Universität Potsdam, 2004.

### 3 Papers in Refereed Journals

- [P8] P.P. Alarcón, F. Arroyo, H. Bordihn, V. Mitraná, M. Müller: Ambiguity of the multiple interpretations of regular languages. Accepted for publication in *Fundamenta Informaticae*, 2014.
- [P9] H. Bordihn, M. Kutrib, M. Wendlandt: Nonterminal Controlled String Assembling systems. *Journal of Automata, Languages and Combinatorics* **19**, 33–44, 2014.
- [P10] H. Bordihn, M. Kutrib, A. Malcher: On the computational capacity of parallel communicating finite automata. *International Journal of Foundations of Computer Science* **23**, 713–732, 2012.
- [P11] H. Bordihn, M. Holzer, M. Kutrib: Hairpin Finite Automata. *Journal of Automata, Languages and Combinatorics* **16**, 91–107, 2011.
- [P12] H. Bordihn, M. Kutrib, A. Malcher: Undecidability and hierarchy results for parallel communicating finite automata. *International Journal of Foundations of Computer Science* **22**, 1577–1592, 2011.
- [P13] H. Bordihn, M. Holzer, and M. Kutrib: Decidability of operation problems for TOL languages and subclasses. *Information and Computation* **209**, 344–352, 2011.
- [P14] H. Bordihn, J. Dassow, and M. Holzer: Extending regular expressions with homomorphic replacement. *RAIRO Informatique théorique et Applications/Theoretical Informatics and Applications* **44**, 229–255, 2010.
- [P15] S. Bensch, H. Bordihn, M. Holzer, and M. Kutrib: On input-revolving deterministic and nondeterministic finite automata. *Information and Computation* **207**, 1140–1155, 2009.
- [P16] H. Bordihn, M. Holzer, and M. Kutrib: Determinization of finite automata accepting subregular languages. *Theoretical Computer Science* **410**, 3209–3222, 2009.

- [P17] H. Bordihn and B. Sunckel: Descriptive complexity of restricted CD grammar systems.  
*Journal of Automata, Languages and Combinatorics* **14**(1), 7–22, 2009.  
(invited)
- [P18] H. Bordihn and M. Holzer: A note on cooperating distributed grammar systems working in combined modes.  
*Information Processing Letters* **108**(1), 10–14, 2008.
- [P19] H. Bordihn and H. Fernau: The degree of parallelism.  
*Journal of Automata, Languages and Combinatorics* **12**(1/2), 25–47, 2007.
- [P20] H. Bordihn and B. Sunckel: On active symbols in CD grammar systems.  
*Journal of Automata, Languages and Combinatorics* **12**(1/2), 49–67, 2007.
- [P21] H. Bordihn, M. Holzer, and M. Kutrib: Hybrid extended finite automata.  
*International Journal of Foundations of Computer Science* **18**(4), 745–760, 2007.
- [P22] S. Bensch and H. Bordihn: Active symbols in pure systems.  
*Fundamenta Informaticae* **76**(3), 239–254, 2007.
- [P23] H. Bordihn and M. Holzer: Cooperating distributed grammar systems as models of distributed problem solving, revisited.  
*Fundamenta Informaticae* **76**(3), 255–270, 2007.
- [P24] H. Bordihn, H. Fernau, M. Holzer, V. Manca, and C. Martín-Vide: Iterated sequential transducers as language generating devices.  
*Theoretical Computer Science* **369**, 67–81, 2006.
- [P25] H. Bordihn and M. Holzer: Programmed grammars and their relation to the LBA problem.  
*Acta Informatica* **43**, 223–242, 2006.
- [P26] H. Bordihn, M. Holzer, and M. Kutrib: Economy of descriptions for basic constructions on rational transductions.  
*Journal of Automata, Languages and Combinatorics*, **9**(2/3), 175–188, 2005.
- [P27] H. Bordihn, M. Holzer, and M. Kutrib: Unsolvability levels of operation problems for subclasses of context-free languages.  
*International Journal of Foundations of Computer Science*, **16**(3), 429–440, 2005.
- [P28] H. Bordihn: On the number of components in cooperating distributed grammar systems.  
*Theoretical Computer Science*, **330**, 195–204, 2005.
- [P29] H. Bordihn: Context-freeness of the power of context-free languages is undecidable.  
*Theoretical Computer Science*, **314**, 445–449, 2004.

- [P30] S. Aydin and H. Bordihn: Sequential versus parallel grammar formalisms with respect to measures of descriptive complexity.  
*Fundamenta Informaticae*, **55**, 1–12, 2003.
- [P31] H. Bordihn and B. Reichel: On descriptions of context-free languages by CD grammar systems.  
*Journal of Automata, Languages and Combinatorics*, **7**(4), 447–454, 2002.
- [P32] H. Bordihn, H. Fernau, and M. Holzer: Accepting pure grammars.  
*Publicationes Mathematicae*, **60**, 483–510, 2002.
- [P33] H. Bordihn and M. Holzer: On the number of active symbols in L and CD grammar systems.  
*Journal of Automata, Languages, and Combinatorics*, **6**(4), 411–426, 2001.
- [P34] H. Bordihn and M. Holzer: Grammar systems with negated conditions in their co-operation protocols.  
*Journal of Universal Computer Science*, **6**(12), 1165–1184, 2000.
- [P35] H. Bordihn, J. Dassow, and Gy. Vaszil: Parallel communicating grammar systems as language analyzers.  
*Grammars*, **3**, 1–20, 2000.
- [P36] H. Bordihn, H. Fernau, and M. Holzer: On accepting pure Lindenmayer systems.  
*Fundamenta Informaticae*, **38**, 365–375, 1999.
- [P37] H. Bordihn and M. Holzer: On a hierarchy of languages generated by cooperating distributed grammar systems.  
*Information Processing Letters*, **69**(2), 59–62, 1999.
- [P38] H. Bordihn and E. Csuhaj-Varjú: On competence and completeness in CD grammar systems.  
*Acta Cybernetica*, **12**(4), 347–360, 1996.
- [P39] H. Fernau, M. Holzer, and H. Bordihn: Accepting multi-agent systems: The case of cooperating distributed grammar systems.  
*Computers and Artificial Intelligence*, **15**(2–3), 123–139, 1996.
- [P40] H. Bordihn and H. Fernau: Accepting grammars and systems via context condition grammars.  
*Journal of Automata, Languages and Combinatorics*, **1**(2), 97–112, 1996.
- [P41] H. Fernau and H. Bordihn: Remarks on accepting parallel systems.  
*International Journal of Computer Mathematics*, **56**, 51–67, 1995.
- [P42] H. Bordihn and H. Fernau: Accepting grammars with regulation.  
*International Journal of Computer Mathematics*, **53**, 1–18, 1994.

- [P43] H. Bordihn: Pure languages and the degree of nondeterminism. *Journal of Information Processing and Cybernetics (formerly: EIK)*, **28**(5), 231–240, 1992.
- [P44] H. Bordihn: On some deterministic grammars with regulated rewriting. *Analele Universitații București*, **XXXIX-XL**(3), 35–48, 1990-1991.

## 4 Papers in Refereed Conference Proceedings

- [P45] P. Bottoni, H. Bordihn, A. Labella, V. Mitrana: Solving 2D-pattern matching with networks of picture processors. In A.-H. Dediu, M. Lozano, C. Martín-Vide, editors, *International Conference on the Theory and Practice of Natural Computing, TPNC 2014, Proceedings* (LNCS 8890), 157–168. Springer-Verlag, 2014.
- [P46] H. Bordihn, M. Kutrib, A. Malcher: Measuring communication in parallel communicating finite automata. In Z. Ésik, Z. Fülöp, editors, *Automata and Formal Languages, AFL 2014*, EPTCS 151, 124-138, 2014.
- [P47] H. Bordihn, M. Kutrib, and A. Malcher: Undecidability and hierarchy results for parallel communicating finite automata. In Y. Gao, H. Lu, S. Seki, and S. Yu, editors, *Developments in Language Theory, 14th International Conference, DLT 2010, London, ON, Canada, August 17-20, 2010. Proceedings* (LNCS 6224), 88–99. Springer-Verlag Berlin, Heidelberg, 2010.
- [P48] H. Bordihn, M. Holzer, and M. Kutrib: Undecidability of operation problems for TOL languages and subclasses. In A.H. Dediu, A.M. Ionescu, and C. Martín-Vide, editors, *Language and Automata Theory and Applications: Third International Conference, LATA 2009, Tarragona, Spain, April 2009. Proceedings* (LNCS 5457), 236–246. Springer-Verlag Berlin, Heidelberg, 2009.
- [P49] H. Bordihn, M. Kutrib, and A. Malcher: On the computational capacity of parallel communicating finite automata. In M. Ito and M. Toyama, editors, *Developments in Language Theory: 12th International Conference, DLT 2008, Kyoto, Japan, September 2008, Proceedings*, (LNCS 5257), 146–157. Springer-Verlag Berlin, Heidelberg, 2008.
- [P50] H. Bordihn, M. Holzer, and M. Kutrib: State complexity of NFA to DFA conversion for subregular language families. In C. Cămpăanu and G. Pighizzini, editors, *Descriptive Complexity of Formal Systems, DCFS 2008*, Proceedings, 85–96. University of Prince Edward Island, Kanada, 2008.
- [P51] S. Bensch, H. Bordihn, M. Holzer, and M. Kutrib: Deterministic input-reversal and input-revolving finite automata. In C. Martín-Vide, F. Otto, and H. Fernau, editors, *Languages, Automata Theory and Applications: 2nd International Conference*,

- LATA 2008, Tarragona, Spain, March 2008, Proceedings*, (LNCS 5196), 113–124. Springer-Verlag Berlin, Heidelberg, 2008.
- [P52] H. Bordihn and M. Holzer: Random context in regulated rewriting versus cooperating distributed grammar systems. In C. Martín-Vide, F. Otto, and H. Fernau, editors, *Languages, Automata Theory and Applications: 2nd International Conference, LATA 2008, Tarragona, Spain, March 2008, Proceedings*, (LNCS 5196), 125–136. Springer-Verlag Berlin, Heidelberg, 2008.
- [P53] H. Bordihn and Gy. Vaszil: Top-down deterministic parsing of languages generated by CD grammar systems. In E. Csuhaj-Varjú and Z. Ésik, editors, *Fundamentals of Computation Theory: 16th International Symposium, FCT 2007, Budapest, Hungary, August 2007, Proceedings*, (LNCS 4639), 113–124. Springer-Verlag Berlin, Heidelberg, 2007.
- [P54] H. Bordihn, M. Holzer, and M. Kutrib: Hairpin Finite Automata. In T. Harju, J. Karhumäki, and A. Lepistö, editors, *Developments in Language Theory: 11th International Conference, DLT 2007, Turku, Finland, July 2007, Proceedings*, (LNCS 4588), 108–119. Springer-Verlag Berlin, Heidelberg, 2007.
- [P55] H. Bordihn and Gy. Vaszil: On leftmost derivations in CD grammar systems. In R. Loos, Sz.Zs. Fazekas, and C. Martín-Vide, editors, *1st International Conference on Language and Automata Theory and Applications, LATA 2007*, Reports 35/07, 187–198. Universitat Rovira I Virgili, Tarragona, Spanien, 2007.
- [P56] H. Bordihn, M. Holzer, and M. Kutrib: Hybrid extended finite automata. In O.H. Ibarra and H.C. Yen, editors, *Implementation and Application of Automata, 11th International Conference, CIAA 2006, Taipei, Taiwan, August 21–23, 2006, Proceedings*, (LNCS 4094), 34–45. Springer-Verlag Berlin, Heidelberg, 2006.
- [P57] H. Bordihn, M. Holzer, and M. Kutrib: On revolving input automata. In C. De Felice and A. Restivo, editors, *Developments in Language Theory: 9th International Conference, DLT 2005, Palermo, Italy* (LNCS 3572), 168–179. Springer-Verlag, Berlin, Heidelberg, 2005.
- [P58] H. Bordihn and H. Fernau: The degree of parallelism. In C. Mereghetti, B. Palano, G. Pighizzini, and D. Wotschke, editors, *Descriptive Complexity of Formal Systems, DCFS 2005*, 51–62. Rapporto Tecnico 06-05, Università degli Studi di Milano, Milan, Italy, 2005.
- [P59] H. Bordihn and B. Sunckel: On active symbols in CD grammar systems. In C. Mereghetti, B. Palano, G. Pighizzini, and D. Wotschke, editors, *Descriptive Complexity of Formal Systems, DCFS 2005*, 63–74. Rapporto Tecnico 06-05, Università degli Studi di Milano, Milan, Italy, 2005.

- [P60] H. Bordihn, M. Holzer, and M. Kutrib: Some undecidability problems for linear and deterministic context-free languages. In M. Domaratzki, A. Okhotin, K. Salomaa, et al., editors, *Implementation and Application of Automata: 9th International Conference, CIAA 2004, Kingston, Canada, July 22-24, 2004, Revised Selected Papers* (LNCS 3317), 68–79. Springer-Verlag, Berlin, Heidelberg, 2005.
- [P61] H. Bordihn, M. Holzer, and M. Kutrib: Input reversals and iterated pushdown automata—a new characterization of Khabbaz geometric hierarchy of languages. In C.S. Calude, E. Calude, and M.J. Dinneen, editors, *Developments in Language Theory: 8th International Conference, DLT 2004. Auckland, New Zealand, December 13-17. Proceedings*, (LNCS 3340), 102–113. Springer-Verlag, Berlin, Heidelberg, 2004.
- [P62] H. Bordihn and H. Jürgensen: Pushdown information. In L. Ilie and D. Wotschke, editors, *Descriptive Complexity of Formal Systems, DCFS 2004*, 111–120. Report No. 619, Department of Computer Science, The University of Western Ontario, London, Ontario, 2004.
- [P63] S. Aydin and H. Bordihn: Sequential versus parallel grammar formalisms with respect to measures of descriptive complexity. In M. Ito, editor, *Algebraic Systems, Formal Languages and Conventional and Unconventional Computation Theory*, 13–21. Report No. 1366, Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, 2004.
- [P64] H. Bordihn: On the number of components in cooperating distributed grammar systems. In E. Csuhaj-Varjú, C. Kintala, D. Wotschke, and Gy. Vaszil, editors, *Fifth International Workshop Descriptive Complexity of Formal Systems, DCFS 2003*, 81–89. Computer and Automation Institute, Hungarian Academy of Sciences (MTA SZTAKI), Budapest, Hungary, 2003.
- [P65] H. Bordihn, M. Holzer, and M. Kutrib: Economy of descriptions for basic constructions on rational transductions. In J. Dassow, M. Hoeberechts, H. Jürgensen, and D. Wotschke, editors, *Descriptive Complexity of Formal Systems, DCFS 2002*, 55–69. Report No. 586, Department of Computer Science, The University of Western Ontario, London, Ontario, 2002.
- [P66] H. Bordihn and B. Reichel: On descriptions of context-free grammars by CD grammar systems. In J. Dassow and D. Wotschke, editors, *Third International Workshop on Descriptive Complexity of Automata, Grammars and Related Structures, DCAGRS 2001 (Vienna, Austria, 2001)*, Preprint Nr. 16/2001, Fakultät für Informatik, Otto-von-Guericke-Universität Magdeburg, Germany, 2001.
- [P67] H. Bordihn and M. Holzer: On the number of active symbols in L and CD grammar systems. In O. Boldt and H. Jürgensen, editors, *Pre-Proceedings of DCAGRS 2000*,

- Descriptive Complexity of Automata, Grammars and Related Structures (London/Ontario 2000)*, Report No. 555/2000, Department of Computer Science, The University of Western Ontario, London, Ontario, 2000.
- [P68] H. Bordihn and M. Holzer: Cooperating distributed grammar systems with non-terminating components. In G. Rozenberg and W. Thomas, editors, *Developments in Language Theory, Foundations, Applications, and Perspectives, DLT 1999*, 305–315. World Scientific, Singapore, 2000.
- [P69] H. Bordihn, J. Dassow, and Gy. Vaszil: Grammar systems as language analyzers and recursively enumerable languages. In G. Ciobanu and Gh. Păun, editors, *Fundamentals of Computation Theory, 12th International Symposium, FCT 1999* (LNCS 1684), 136–147. Springer-Verlag, Berlin, Heidelberg, 1999.
- [P70] H. Bordihn and H. Fernau: Accepting grammars and systems: An overview. In J. Dassow, G. Rozenberg, and A. Salomaa, editors, *Developments in Language Theory II, DLT 1995*, 199–208. World Scientific, Singapore, 1996.
- [P71] H. Bordihn and J. Dassow: A note on the degree of nondeterminism. In G. Rozenberg and A. Salomaa, editors, *Developments in Language Theory*, 70–80. World Scientific, Singapore, 1994. Proceedings, International Conference *Developments in Language Theory, DLT 1993*, Turku, Finland, 1993.
- [P72] H. Bordihn: On the degree of nondeterminism. In J. Dassow and A. Kelemenova, editors, *Developments in Theoretical Computer Science*, 133–140. Gordon and Breach Science, 1994. Proceedings, 7th *International Meeting of Young Computer Scientists, IMYCS 1992*, Smolenice, Tschechoslovakei, 1992.
- [P73] H. Bordihn: Über den Determiniertheitsgrad reiner Grammatiken mit gesteuerten Ableitungen (On the degree of non-determinism of pure grammars with regulated rewriting). In: *VII. Zentrale Studentenkonferenz Mathematik, Autorreferate*, p. 42. Greifswald University, Germany, 1989.
- [P74] H. Bordihn: On some deterministic grammars with regulations. In J. Demetrovics, E. Chuhaj-Varjú, and J. Kelemen, editors, *Proceedings of the 5. International Meeting of Young Computer Scientists, IMYCS 1988*, 87–93. Computer and Automation Institute, Hungarian Academy of Sciences (MTA SZTAKI), Hungary, 1988.
- [P75] H. Bordihn: Über deterministische Grammatiken mit Bewertungen (On deterministic grammars with valuations). In: *V. Zentrale Studentenkonferenz Mathematik, Autorreferate*, p. 101. Rostock University, Germany, 1986.



## 5 Invited Papers in Conference Proceedings and Collections

- [P76] H. Bordihn, F. Manea, V. Mitrana, D.-C. Voinescu: Two variants of synchronized shuffle on backbones. In Gh. Păun, G. Rozenberg, A. Salomaa, editors, *Discrete Mathematics and Computer Science*, 77–87, Editura Academiei Române, 2014.
- [P77] H. Bordihn, H. Jürgensen, H. Ritter: Soliton automata with multiple waves. In C.S. Calude, R. Freivalds, I. Kazuo, editors, *Computing with New Resources, Essays dedicated to Jozef Gruska on the occasion of his 80th birthday* (LNCS 8808), 32–48. Springer-Verlag, 2014.
- [P78] H. Bordihn: Mildly Context-Sensitive Grammars. In C. Martín-Vide, V. Mitrana, and Gh. Păun, editors, *Formal Languages and Application, Studies in Fuzziness and Soft Computing 148*, 163–173. Springer-Verlag, Berlin, Heidelberg, 2004.
- [P79] H. Bordihn, H. Fernau, and M. Holzer: On iterated sequential transducers. In C. Martín-Vide and V. Mitrana, editors, *Grammars and Automata for String Processing: From Mathematics and Computer Science to Biology, and Back*. (Topics in Computer Mathematics: 9), 121–130, Taylor and Francis, London, 2003. (refereed)
- [P80] H. Bordihn and M. Holzer: On the computational complexity of synchronized context-free languages. In C. S. Calude, K. Salomaa, and S. Yu, editors, *Advances and Trends in Automata and Formal Languages, Journal of Universal Computer Science*, **8**(2), 119–140, 2002. (refereed)
- [P81] H. Bordihn, E. Csuhaj-Varjú, and J. Dassow: CD grammar systems versus L systems. In Gh. Păun and A. Salomaa, editors, *Grammatical Models of Multi-Agent Systems*, 18–32. Gordon and Breach Science, 1999. (refereed)
- [P82] H. Bordihn: A grammatical approach to the lba problem. In Gh. Păun and A. Salomaa, editors, *New Trends in Formal Languages* (LNCS 1218), 1–9. Springer-Verlag, Berlin, Heidelberg, 1997. (refereed)

## 6 Papers in Unrefereed Journals

- [P83] H. Bordihn: On deterministic grammars with valuations. *Wissenschaftliche Zeitschrift der Technischen Universität ‘Otto-von-Guericke’ Magdeburg*, **31**, 1–3, 1987.

## 7 Abstracts and Extended Abstracts at Unrefereed Conferences

*Most of the papers listed here have been published in a more comprehensive form somewhere else.*

- [P84] H. Bordihn: Vergleich zweier Vergleichsmethoden für Beschreibungsgrößen. In: J. Mielke, L. Staiger, and R. Winter, editors, *19. Theorietag Automaten und Formale Sprachen*, Proceedings, Technischer Report 2009/03, Institut für Informatik, Martin-Luther-Universität Halle-Wittenberg, 2009.
- [P85] H. Bordihn, M. Kutrib, and A. Malcher: On the computational capacity of parallel communicating finite automata. In M. Holzer, M. Kutrib, and A. Malcher, editors, *18. Theorietag Automaten und Formale Sprachen*, Proceedings, 39–44. Institut für Informatik, Justus-Liebig-Universität Gießen, 2008.
- [P86] H. Bordihn and Gy. Vaszil: Top-down deterministic parsing of languages generated by CD grammar systems. In M. Droste and M. Lohrey, editors, *17. Theorietag Automaten und Formale Sprachen*, Proceedings, 35–37. Universität Leipzig, 2007.
- [P87] H. Bordihn: Hybrid extended automata. In R. Freund and M. Oswald, editors, *16. Theorietag Automaten und Formale Sprachen*, Proceedings, 36–39. TU Wien, 2006.
- [P88] S. Bensch and H. Bordihn: Active symbols in pure systems. In E. Csuhaj-Varjú and Gy. Vaszil, editors, *Preliminary Proceedings of Grammar Systems Week 2004*, 47–62. Computer and Automation Institute, Hungarian Academy of Sciences (MTA SZTAKI), Budapest, Hungary, 2004.
- [P89] H. Bordihn and M. Holzer: CD grammar systems as models of distributed problem solving, revisited. In E. Csuhaj-Varjú and Gy. Vaszil, editors, *Preliminary Proceedings of Grammar Systems Week 2004*, 66–82. Computer and Automation Institute, Hungarian Academy of Sciences (MTA SZTAKI), Budapest, Hungary, 2004.
- [P90] H. Bordihn and Gy. Vaszil: CD grammar systems with LL(k) conditions. In E. Csuhaj-Varjú and Gy. Vaszil, editors, *Preliminary Proceedings of Grammar Systems Week 2004*, 83–100. Computer and Automation Institute, Hungarian Academy of Sciences (MTA SZTAKI), Budapest, Hungary, 2004.
- [P91] H. Bordihn and H. Fernau: On the degree of parallelism. In M. Holzer, editor, *Workshop Petrinetze und 12. Theorietag Automaten und Formale Sprachen*, 19–26. Bericht TUM-I0322, Institut für Informatik, Technische Universität München, Germany, 2003.

- [P92] H. Bordihn: Decision problems on the power of languages. In J. Dassow and B. Reichel, editors, *11. Theorietag Automaten und Formale Sprachen mit dem Workshop Coding Theory and Formal Languages, Proceedings*, 43–45. Preprint Nr. 18/2001, Fakultät für Informatik, Otto-von-Guericke-Universität Magdeburg, Germany, 2001.
- [P93] H. Bordihn: On the number of active symbols in L and CD grammar systems. In R. Freund, editors, *Theorietag 2000 mit Workshop New Computing Paradigms: Molecular Computing and Quantum Computing (Wien, Österreich)*, 175–176. Technische Universität Wien, Austria, 2000.
- [P94] H. Bordihn, J. Dassow, and M. Holzer: H-Ausdrücke – eine Erweiterung regulärer Ausdrücke (H expressions—an extension of regular expressions). In F. Otto und G. Niemann, editors, *9. Theorietag der GI-Fachgruppe 0.1.5 Automaten und Formale Sprachen (Schauenburg-Elmshagen bei Kassel)*, p. 26. Preprint No. 12/99, Universität GH Kassel, Germany, 1999.
- [P95] H. Bordihn: Cooperating/distributed grammar systems—various different points of view. In H. Petersen, editors, *Workshop on Formal Languages, Automata and Petri-Nets (Stuttgart 1998)*, p. 3. Report Nr. 1998/01, Fakultät für Informatik, Universität Stuttgart, Germany, 1998.
- [P96] H. Bordihn and H. Fernau: Accepting programmed grammars without nonterminals. In M. Kutrib und Th. Worsch, editors, *5. Theorietag Automaten und Formale Sprachen (Schloß Rauischholzhausen, 1995)*, 4–16. Bericht 9503, Arbeitsgruppe Informatik, Universität Giessen, Germany, 1995.
- [P97] H. Bordihn and H. Fernau: Programmierte Grammatiken und limitierte L-Systeme als Sprachakzeptoren (Programmed grammars and limited L systems as language acceptors). In M. Holzer, editor, *4. GI Theorietag Automaten und Formale Sprachen (Herrsching 1994)*, 21–24. WSI-95-10, Wilhelm-Schickard-Institut, Universität Tübingen, Germany, 1995.

## 8 Technical Reports

*Only reports which have not been published elsewhere in this version are listed here.*

- [P98] H. Bordihn, H. Jürgensen, H. Ritter: Soliton Automata with Multiple Waves. Technical Report 759, Department of Computer Science, The University of Western Ontario, London, Ontario, Kanada, 2014.
- [P99] H. Bordihn, J. Dassow, and M. Holzer: Extending Regular Expressions with Homomorphic Replacement. Bericht TUM-I0102, Institut für Informatik, Technische Universität München, Germany, 2001.

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## 9 Further Technical Reports

*Many of the above publications have also appeared as technical reports at several universities, including Magdeburg, Tübingen, University of Western Ontario, Université de Montréal, Giessen, Munich, etc. These are not listed here individually.*