SCHRIFTENVERZEICHNIS

1. KONFERENZEN

[1] M. Sauerhoff und P. Wölfel (2003).
Time-space tradeoff lower bounds for integer multiplication and graphs of arithmetic functions. In *Proc. of 35th STOC*, 186-195.

[2] M. Sauerhoff (2003).
Randomness versus nondeterminism for read-once and read-k branching programs. In *Proc. of 20th STACS*, *LNCS 2607*, 307–318, Springer-Verlag.

[3] P. Ďuriš, J. Hromkovič, S. Jukna, M. Sauerhoff und G. Schnitger (2001).
On multipartition communication complexity. In *Proc. of 18th STACS*, *LNCS 2010*, 206–217, Springer-Verlag.

[4] B. Bollig, M. Sauerhoff und I. Wegener (2001).
On the non-approximability of boolean functions by OBDDs and read-k-times branching programs. In *Proc. of 16th IEEE Conference on Computational Complexity*, 172-187.

[5] J. Hromkovič und M. Sauerhoff (2000).
Tradeoffs between nondeterminism and complexity for communication protocols and branching programs. In *Proc. of 17th STACS*, *LNCS 1770*, 145–156, Springer-Verlag.

[6] M. Sauerhoff (1999).
Computing with restricted nondeterminism: The dependence of the OBDD size on the number of nondeterministic variables. In *Proc. of 19th FST & TCS*, *LNCS 1738*, 342–355, Springer-Verlag. Best paper award.

[7] M. Sauerhoff, I. Wegener und R. Werchner (1999).
Relating branching program size and formula size over the full binary basis. In *Proc. of 16th STACS*, *LNCS 1563*, 57–67, Springer-Verlag.

[8] M. Sauerhoff (1999).
On the size of randomized OBDDs and read-once branching programs for k-stable functions. In *Proc. of 16th STACS*, *LNCS 1563*, 488–499, Springer-Verlag.

[9] M. Sauerhoff (1998).
Lower bounds for randomized read-k-times branching programs. In *Proc. of 15th STACS*, *LNCS 1373*, 105–115, Springer-Verlag.

[10] M. Sauerhoff, I. Wegener und R. Werchner (1996).
Optimal ordered binary decision diagrams for fanout-free circuits. In *Proc. of the Synthesis and System Integration of Mixed Technologies (SASIMI)*, 197–204.

[11] B. Bollig, M. Löbbing, M. Sauerhoff und I. Wegener (1995).
Complexity theoretical aspects of OFDDs. In *Proc. of IFIP WG 10.5 Workshop on Applications of the Reed-Muller Expansion in Circuit Design*, 198 – 205.

2. Eingeladener Konferenzbeitrag

[12] M. Sauerhoff (2001).
Randomized branching programs. In *Proc. of Stochastic Algorithms: Foundations and Applications (SAGA)*, *LNCS 2264*, 65–71, Springer-Verlag.

3. Zeitschriften

[13] A. Gronemeier, M. Sauerhoff (2007).
Applying Approximate Counting for Computing the Frequency Moments of Long Data Streams. Erscheint in *Theory of Computing Systems*.

[14] M. Sauerhoff, D. Sieling (2005).
Quantum branching programs and space-bounded nonuniform quantum complexity. *Theoretical Computer Science* 334(1–3):177–225.

[15] P. Ďuris, J. Hromkovič, S. Jukna, M. Sauerhoff und G. Schnitger (2004).
On multi-partition communication complexity. *Information and Computation* 194:49–75.

[16] M. Sauerhoff (2003).
Guess-and-verify versus unrestricted nondeterminism for OBDDs and one-way Turing machines. *Journal of Computer and System Sciences* 66(3):473–495.

[17] M. Sauerhoff (2003).
Approximation of boolean functions by combinatorial rectangles. *Theoretical Computer Science* 301:45–78.

[18] J. Hromkovič und M. Sauerhoff (2003).
On the power of nondeterminism and randomness for oblivious branching programs. *Theory of Computing Systems* 36(2):159–182.

[19] B. Bollig, M. Sauerhoff und I. Wegener (2002).
On the non-approximability of boolean functions by OBDDs and read-k-times branching programs. *Information and Computation* 178:263–278.

[20] M. Sauerhoff (2001).
On the size of randomized OBDDs and read-once branching programs for k-stable functions. *Computational Complexity* 10:155–178.

[21] M. Sauerhoff, I. Wegener und R. Werchner (2000). Optimal ordered binary decision diagrams for read-once formulas. *Discrete Applied Mathematics* 103:237–258.

[22] M. Sauerhoff (1999). An improved hierarchy result for partitioned BDDs. *Theory of Computing Systems* 33(4):313–329.

[23] B. Bollig, M. Löbbing, M. Sauerhoff und I. Wegener (1999).
On the complexity of the hidden weighted bit function for various BDD models. *Theoretical Informatics and Applications (RAIRO)* 33:103–115.

[24] R. Drechsler, M. Sauerhoff und D. Sieling (1998).
The complexity of the inclusion operation on OFDDs. *IEEE Trans. on Computer Aided Design* 17:457–459.

[25] B. Bollig, M. Sauerhoff, D. Sieling und I. Wegener (1998).
Hierarchy theorems for kOBDDs and kIBDDs. *Theoretical Computer Science* 205:45–60.

[26] M. Sauerhoff und I. Wegener (1996).
On the complexity of minimizing the OBDD size for incompletely specified functions. *IEEE Trans. on Computer Aided Design* 15:1435–1437.

4. Buchbeiträge

[27] B. Bollig, M. Sauerhoff, D. Sieling und I. Wegener (2007).
Binary decision diagrams. Erscheint als Kapitel von *Boolean Functions, Volume II*, Y. Crama und P. Hammer (Hrsg.), Cambridge University Press.

[28] M. Sauerhoff (1999).
Randomisierte Branchingprogramme. In *Ausgezeichnete Informatikdissertationen 1999*, H. Fiedler u. a. (Hrsg.), Teubner-Verlag.

[29] B. Bollig, M. Löbbing, M. Sauerhoff und I. Wegener (1996).
Complexity theoretical aspects of OFDDs. In *Representation of Discrete Functions*, T. Sasao (Hrsg.), Kluwer Academic Publishers.

5. Qualifizierende Arbeiten

[30] M. Sauerhoff (2003).
On the Resources Nondeterminism and Randomness for Branching Programs. Kumulative Habilitationsschrift, Fachbereich Informatik, Universität Dortmund.

[31] M. Sauerhoff (1999).
Complexity Theoretical Results for Randomized Branching Programs. Dissertation, Fachbereich Informatik, Universität Dortmund. Shaker-Verlag, Aachen.

[32] M. Sauerhoff (1993).
Effiziente Algorithmen für kBDDs. Diplomarbeit, Fachbereich Informatik, Universität Dortmund.