

Publications

Ph.D. dissertation:

- [1] Samuel R. Buss, *Bounded Arithmetic*. Ph.D. thesis, Princeton University, 1985.

Books authored:

- [2] Samuel R. Buss, *Bounded Arithmetic*. Bibliopolis, 1986. Revision of Princeton University Ph.D. thesis.
- [3] Samuel R. Buss, *3D Computer Graphics: A Mathematical Introduction with OpenGL*. Cambridge University Press, 2003.

Books edited:

- [4] Samuel R. Buss and Phillip J. Scott, editors, *Feasible Mathematics, a Mathematical Sciences Institute Workshop held in Ithaca, New York, June 1989*, Progress in Computer Science and Applied Logic, volume 9, Birkhäuser, 1990.
- [5] Paul W. Beame and Samuel R. Buss, editors, *Proof Complexity and Feasible Arithmetics* Proceedings of a DIMACS Workshop held April 1996, American Mathematical Society, 1998.
- [6] Samuel R. Buss, editor, *Handbook of Proof Theory*, Elsevier Science Publishers, 1998.
- [7] Samuel R. Buss, Petr Hájek, and Pavel Pudlák, editors, *Logic Colloquium'98, Proc. of the Annual ASL European Summer Meeting*, Lecture Notes in Logic #13, Association for Symbolic Logic, 1999.

Patents:

- [8] Peter N. Yianilos and Samuel R. Buss, "Associative memory circuit system and method, continuation-in-part." U.S. Patent #4490811, December 1984. European Patent #83903352.9, January 1986.
- [9] Samuel R. Buss and Peter N. Yianilos, "Linear and near-linear time methods for minimum-cost matching on quasiconvex tours." U.S. Patent #5841958, November 1998.

Articles:

- [10] Peter N. Yianilos, Robert A. Harbort, Samuel R. Buss, “The application of a pattern matching algorithm to searching medical record text.” In *IEEE Symposium on Computer Applications in Medical Care*, pages 308–313, 1978.
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Other Publications:

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Technical Reports and Unpublished Items:

More unpublished items available on my web page.

- [85] Samuel R. Buss, “Neighborhood metrics on n -dimensional blocks of characters”, MSRI Technical Report. Submitted to PAMI back in 1986. Never obtained a final answer after several queries to the editor and the editor-in-chief (neither accepted nor rejected!) and I have not gone back to it in years.
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