Solving Sudoku with Boolean Algebra

Abstract

Sudoku is a very popular puzzle which consists of placing several numbers in a squared grid according to some simple rules. In this paper, we present a Sudoku solving technique named Boolean Sudoku Solver (BSS) using only simple Boolean algebras. Use of Boolean algebra increases the execution speed of the Sudoku solver. Simulation results show that our method returns the solution of the Sudoku in minimum number of iterations and outperforms the existing popular approaches.

References

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Index Terms

- Computer Science
- Algorithms

Keywords

- Sudoku
- Boolean algebra
- Memory representation