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A faster FPTAS for counting two-rowed contingency tables. (English) Zbl 07395738

Summary: In this paper we provide a deterministic fully polynomial time approximation scheme (FPTAS) for counting two-rowed contingency tables that is faster than any either deterministic or randomized approximation scheme for this problem known to date. Our FPTAS is derived via a somewhat sophisticated usage of the method of $K$-approximation sets and functions introduced by Halman et al. (2009).

MSC:
90Cxx Mathematical programming
68Wxx Algorithms in computer science
05Cxx Graph theory

Keywords:
contingency tables; dynamic programming; $K$-approximation sets and functions

Full Text: DOI

References:


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