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## Algorithmic and Computational Complexity Issues of MONET

By Matthias Hagen

Cuvillier Verlag Dez 2008, 2008. Taschenbuch. Condition: Neu. Neuware - In this thesis, we study the problem Monet: the Mo(notone) n(ormal form)e(quivalence) t(est) that asks to decide equivalence of a monotone disjunctive normal form  $\mathcal{D}$  and a monotone conjunctive normal form  $\mathcal{C}$ . This problem is a covering problem that can be interpreted as the task of enumerating all (in some sense) minimal solutions of some system. Hence, there is a huge number of similar questions in many problems from diverse applications. Our results can roughly be divided into results on the design and evaluation of algorithms for Monet and results that rather touch complexity questions related to the problem. As for the algorithmic part, we will give lower bounds for several known algorithms and report results obtained by practically examining the theoretically fastest algorithm in computational experiments. As for the complexity part of this thesis, we show several restricted classes of the problem to be solvable in logarithmic space, which improves previously known polynomial time bounds. We also show Monet to be in the complexity class of  $\text{P}^{\text{NP}}$ -parameter tractable problems with respect to several parameters. More precisely, we prove the following main results using various algorithmic and computational complexity techniques. - Several restricted classes of...



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