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Recognition, Generation, and Application of Binary Matrices with the Consecutive-Ones Property

By Michael Dom

Cuvillier Verlag Apr 2009, 2009. Taschenbuch. Condition: Neu. Neuware - This thesis is about the computational complexity of several combinatorial problems closely related to the consecutive-ones property of binary matrices (0/1-matrices). Herein, a binary matrix has the consecutive-ones property (C1P) if there is a permutation of its columns that places the 1s consecutively in every row. The C1P has a long history and plays an important role in many applications, ranging from computational biology to railway optimization. This thesis aims, on the one hand, to investigate how the C1P can be established when a given binary matrix initially does not have this property, and, on the other hand, to analyze how the C1P and 'relaxed' variants of the C1P can help to tackle matrix problems that are hard to solve in general. Apart from giving an overview on the C1P and its connections to graph theory and algorithmics, the thesis examines four problem complexes. Finding small forbidden submatrices. Here, one has given a binary matrix M without the C1P, and the task is to find a minimum-size submatrix of M that does not have the C1P. Such a submatrix is called a forbidden submatrix because it is a cause for...



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