## Oberseminar Theoretische Informatik Sommersemester 2007

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## The Search for Consecutive Ones Submatrices: Faster and More General

Mo, 07.05.2007 um 14 Uhr (c.t.) im SR 225 (Carl-Zeiß-Str. 3, 2. Stock).

Finding for a given 0/1-matrix a maximum-size submatrix that fulfills the Consecutive Ones Property is generally an NP-hard problem. Based on previous work, we present much faster approximation and fixed-parameter algorithms for obtaining such submatrices by a minimum number of column deletions. Moreover, we show how to extend these results to the non-symmetrical case where instead of column deletions we allow row deletions. Finally, we initiate research on the case where one minimizes the number of flippings of 1-entries into 0-entries.

Internetseite der Veranstaltung: http://theinf1.informatik.uni-jena.de/teaching/ss07/oberseminar-ss07