

Oberseminar Theoretische Informatik
Sommersemester 2010

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Measuring Indifference: Unit Interval Vertex Deletion

Mo. 10.05.2010 um 14:00 (c.t.) im Seminarraum 3319 (Ernst-Abbe-Platz 2, 3. Stock).

Making a graph unit interval by a minimum number of vertex deletions is NP-hard. The problem is motivated by applications in seriation and measuring indifference between data items. We present a fixed-parameter algorithm based on the iterative compression technique that finds in $O((14k + 14)^{k+1}kn^6)$ time a set of k vertices whose deletion from an n -vertex graph makes it unit interval.

Homepage:

<http://theinf1.informatik.uni-jena.de/teaching/ss10/oberseminar-ss10>