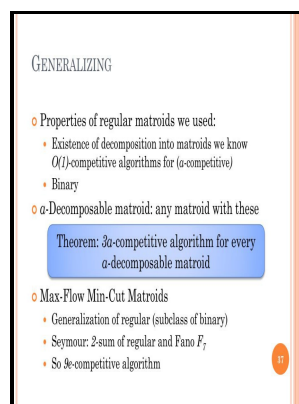


Matroid decomposition

Academic Press - Decomposition width of matroids



Description: -

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Decomposition (Mathematics)
Matroids.Matroid decomposition
-Matroid decomposition

Notes: Includes bibliographical references (p. 350-377) and indexes.
This edition was published in 1992



Filesize: 55.22 MB

Tags: #Branch #decomposition #heuristics #for #linear #matroids

Matroid Decomposition by Klaus Truemper

In linear algebra, this corresponds to restricting to the subspace generated by the vectors in S . In the late 1960s matroid theorists asked for a more general notion that shares the different aspects of finite matroids and generalizes their duality.

Branch decomposition heuristics for linear matroids

An older standard source is Welsh 1976.

Matroid Decomposition Book Re

According to a matroid version of , the dual of a graphic matroid M is a graphic matroid if and only if M is the matroid of a . Not to be confused with or.

Matroid decomposition (1998 edition)

To be able to extend these algorithmic results to matroids not representable over finite fields, we introduce a new width parameter for matroids, the decomposition width, and show that every matroid property expressible in the monadic second-order logic can be computed in linear time for matroids given by a decomposition with bounded width.

Branch decomposition heuristics for linear matroids

It was also independently discovered by , whose work was forgotten for many years.

Matroid base polytope decomposition

Computational results using the methods on linear matroid instances are shown respectively.

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