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# Graph Decompositions A Study In Infinite Graph Theory

**decompositions of graphs - people** - decompositions of graphs 3.1 why graphs? a wide range of problems can be expressed with clarity and precision in the concise pictorial language of graphs. for instance, consider the task of coloring a political map. what is the minimum number of colors needed, with the obvious restriction that neighboring countries should have different colors? **graph decompositions - orbit.dtu** - of a graph  $g$ , for example, is the smallest number of independent sets needed to decompose the vertex set of  $g$ . this thesis, however, only considers edge-decompositions of graphs, i.e. partitions of the edge set of  $g$ . 1.1 **h-decompositions all decompositions we consider in this thesis are types of h-decompositions, where  $h$  is a family of graphs.** **analysis and optimization of graph decompositions by ...** - analysis and optimization of graph decompositions by lifted multicuts  $e_1 e_2 e_3 g_0 0 0 0 1 1 1 0 1 1 1 1 1 x e_1 x e_2 x e_3$  figure 2. for any connected graph  $g$  (left), the characteristic func- **circuit decompositions of eulerian graphs - math.wvu** - circuit decompositions of planar graphs to the chinese postman problem and shortest circuit cover problem can be found in fleischner and guan [7]. it is known that planar graphs do not contain  $K_5$  or  $K_{3,3}$  as a minor. the following theorem generalizes fleischner and frank's result [6]. theorem 1.1. let  $g$  be an eulerian graph with an ... **finding graph decompositions via sat - bloomington, il** - finding graph decompositions via sat wenting zhao, mark h. liffiton, peter g. jeavons and dan roberts illinois wesleyan university, bloomington, il usa ydepartment of computer science, university of oxford, uk fwzhao, mliffito, drobert1g@iwu, ypeteravons@cs.ox abstract—we begin a systematic study of how graph de- **strong-diameter decompositions of minor free graphs** - of providing minor-free graph decompositions whose clusters have strong-diameter bounds remained open, and is addressed by the present work. our first result is stated in the following theorem: theorem 1. every weighted graph excluding a  $K_{r,r}$  minor has a  $(O(r^2), 2O(r)!)^2$  sparse cover scheme constructible in polynomial time. **nodal decompositions of graphs - mit mathematics** - nodal decompositions of graphs john c. urschel department of mathematics, massachusetts institute of technology, cambridge, ma 02139 abstract a nodal domain of a function is a maximally connected subset of the domain for which the func- **triangle decompositions of planar graphs - arxiv** - triangle decompositions of planar graphs c. m. (kieka) ... the planar graph  $h$  obtained by joining the two vertices of  $K_{2,7}$  of degree seven shows that a strongly  $K_3$ -divisible graph need not be  $K_3$ -decomposable: the removal of any triangle of  $h$  results in a triangle-free graph. **large-treewidth graph decompositions and applications** - large-treewidth graph decompositions and applications chandra chekuri julia chuzhoy y abstract treewidth is a graph parameter that plays a fundamental role in several structural and algorithmic results. we study the problem of decomposing a given graph  $g$  into node-disjoint subgraphs, where each subgraph has sufficiently large treewidth.

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