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RECENT TRENDS IN METAHEURISTIC GRAPH PARTITIONING TECHNIQUES

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Abstract

Graph partitioning plays vital role in solving application problems like social network, road network, scientific simulation, air traffic control, image analysis and for many other purposes. Despite many years of research and significant contributions, graph partitioning is still a very challenging task to suit for variety of applications. Among the different partitioning approaches, metaheuristic techniques are most popular due to their capabilities of generating balanced partitioning structures. This paper in depth explains graph partitioning methods along with their detailed analysis. The study and evaluation is useful in improving the performance of existing methods as well as helpful in the development of new methods.

Keywords: Graph Partitioning, Graph Cuts, Multilevel Technique, Hpergraphs.

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