

Introduction to DP-coloring

Friday, 30 September 2022 15:45 (50 minutes)

Graph coloring is one of the fundamental research topics in graph theory. Graph coloring is closely related with the Four Color Problem, and graph coloring is widely applied in a variety of applications. The aim of graph coloring is to minimize the number of colors used to color the vertices in a graph such that no two adjacent vertices have the same color.

DP-coloring was introduced by Dvořák and Postle (2015) to study list coloring. DP-coloring of a graph is a generalization of list coloring, and also a generalization of signed coloring of signed graphs. In this talk, we will give an overview of DP-coloring, and introduce online DP-coloring which is an online version of DP-coloring.

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