

Application of graph coloring algorithm to solve scheduling problems

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Abstract: The scheduling problem is an important issue in time and task management. This topic aims to apply graph coloring algorithms to solve this problem, with the goal of building an automated system for the scheduling process. Through theoretical research on graph coloring algorithms combined with experimental methods, the topic seeks to provide an effective and flexible solution for managing academic or work schedules. The results of this topic not only contribute to the field of organizational science but can also be deployed in many practical applications.

Keywords: Graph coloring algorithm, Time management, Automation system, Scheduling, Information technology