

Rapid Scheduling: a Constraint Satisfaction Approach to River Usage Scheduling

Team: 16677

February 12, 2012

1 Preliminaries

1.1 Introduction

1.2 Assumptions and Simplifications

1.3 General Commentary

2 Details of the Model

2.1 High-Level Parameters

2.1.1 Tolerance

2.2 Constraint Satisfaction

2.2.1 Travel Groups as Variables

2.2.2 Campsites as Domain Values

2.2.3 Backtracking Search

3 Predictions and Analysis

3.1 General Expectations

3.2 Results

3.3 Sensitivity Analysis

4 Conclusions

4.1 Advantages to the Approach

4.2 Detractors from the Approach

4.3 Future Extensions

4.4 Final Recommendations