

# Heuristic Opt. Techniques - Assignment 1 Report

Martin Blöschl and Cem Okulmus

## Summary

Our group consisting of Blöschl Martin and Okulmus Cem was given the task of finding a heuristic for the K Page Book Embedding Problem. The problem description will not be repeated for sake of brevity. We chose a simple two-step algorithm that constructs a greedy heuristic with no further local search. As for the randomization, we found ways to extend these steps to allow for a parameterized uncertainty factor (similar to the  $\alpha$  factor in GRASP). Our results showed that ...

## Implementation

### Solution representation

Internally, we represent a solution as the order of its vertices, an integer array, and the lists of edges assigned to pages. We decided that our construction heuristic should first fix the vertex order

### Deterministic Construction

### Randomized construction

## Evaluation