Research School for
Operations Management
and Logistics

# Variations of Late Acceptance Hill Climbing: A Component-Based Study

**Maarten Van den Abeele**
Antwerp University

The Late Acceptance Hill Climbing (LAHC) is a competitive metaheuristic that has been implemented and varied across multiple domains. This study develops a component-based analysis that captures variations found in the literature as well as newly proposed ones. Applications of variations in literature are scattered across problem contexts. The objective of this study is to determine whether such variations produce measurable performance differences when applying best practices for algorithmic comparison. Their common testbed is QAPlib, an established library for the Quadratic Assignment Problem (QAP). Variations are ranked and analysed based on their time-to-target.