# Literature Review

### 2. Literature Review

#### 2.1 Integrated Grasp and Motion Planning: Setting the Context

#### 2.2 Understanding RRT and its Extensions

* 2.2.1 Overview of the RRT Algorithm
* 2.2.2 RRT\*: Optimal Path Planning
* 2.2.3 JPplusRRT: Enhanced Speed and Adaptability
* 2.2.4 IK-RRT and BIK-RRT: Addressing Complex Configurations

#### 2.3 Comparative Analysis of Motion Planning Algorithms

* 2.3.1 Criteria for Comparison: Planning Time, Success Rate, and Exploration
* 2.3.2 Testing in Shared Environments: Consistency and Parameters
* 2.3.3 Performance Insights from the Literature

#### 2.4 Grasp Selection in Motion Planning

* 2.4.1 What is a Grasp? Definition and Importance
* 2.4.2 Grasp Planner: Selection Process and Technical Steps

#### 2.5 Other Relevant Algorithms in Grasp and Motion Planning

#### 2.6 Influence of the Literature on Methodology and Research Questions

2.7 Gaps in literature

2.8 summary