

UNIVERSITY OF POTSDAM

FINAL THESIS FOR A BACHELOR'S DEGREE IN  
COMPUTATIONAL SCIENCE

# Map Abstraction for Multi-Agent Pathfinding problems with Answer Set Programming

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**Abstract.**

## **1 Introduction**

## **2 Asprilo**

## **3 Abstraction Methods**

### **3.1 Shortest Path**

### **3.2 Node Combining**

### **3.3 Reachable Nodes**

## **4 Benchmarking**

## **5 Conclusion**

## References

## A Affidavit

I hereby affirm that this Bachelor's Thesis represents my own written work and that I have used no source and aids other than those indicated. All passages quoted from publications or paraphrased from these sources are properly cited and attributed.

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Date, Place

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Signature