AI in Robotics

Localization of a kidnapped robot

Department of Engineering - Aarhus University

Marts 9, 2017

Stud. no.: 201270782	Torben Werenberg Vogt
Stud. no.: 201270097	Simon Østergaard Kristensen
Stud. no.: 201270278	Ivan Bjerring Hansen

Contents

1 Introduction

Part I

Theory

2 Localization

3 Kalman Filter

4 ParticleFilter

5 Search

6 PID

7 SLAM

Part II

Project

8 System description

9 Implementation

10 Discussion

11 Conclusion