Relatório de FIA do trabalho do PacMan Professor: Andersor Priebe Ferugem

Alunos: Douglas L. B. Schiavi e Leonardo G. Coelho

### Mapa "Tiny Maze"

### 1 – Hill Climbing Search

Path found with total cost of 1 in 0.0 seconds Search nodes expanded: 1  $\,$ 

#### 2 – Simulated Annealing Search

Path found with total cost of 10 in 0.0 seconds Search nodes expanded: 10

#### 3 – Uniform Cost Search

Path found with total cost of 8 in 0.0 seconds Search nodes expanded: 14

#### $4 - A^*$ (Manhattan)

Path found with total cost of 8 in 0.0 seconds Search nodes expanded: 14

### Mapa "Medium Maze"

# 1 – Hill Climbing Search

Path found with total cost of 1 in 0.0 seconds Search nodes expanded: 1

#### 2 – Simulated Annealing Search

Path found with total cost of 152 in 0.0 seconds Search nodes expanded: 165

#### 3 – Uniform Cost Search

Path found with total cost of 68 in 0.0 seconds Search nodes expanded: 265  $\,$ 

### 4 - A\* (Manhattan)

Path found with total cost of 68 in 0.0 seconds Search nodes expanded: 219

# Mapa "Big Maze"

#### 1 – Hill Climbing Search

Path found with total cost of 1 in 0.0 seconds Search nodes expanded: 1

#### 2 – Simulated Annealing Search

Path found with total cost of 210 in 0.0 seconds Search nodes expanded: 435

# 3 – Uniform Cost Search

Path found with total cost of 210 in 0.2 seconds Search nodes expanded: 616

# 4 - A\* (Manhattan)

Path found with total cost of 210 in 0.0 seconds Search nodes expanded: 538

# Mapa "Medium Scary Maze"

### 1 – Hill Climbing Search

Path found with total cost of 1 in 0.0 seconds Search nodes expanded: 1  $\,$ 

## 2 – Simulated Annealing Search

Path found with total cost of 92 in 0.0 seconds Search nodes expanded: 92

### 3 – Uniform Cost Search

Path found with total cost of 72 in 0.0 seconds Search nodes expanded: 276

#### $4 - A^*$ (Manhattan)

Path found with total cost of 72 in 0.0 seconds Search nodes expanded: 228