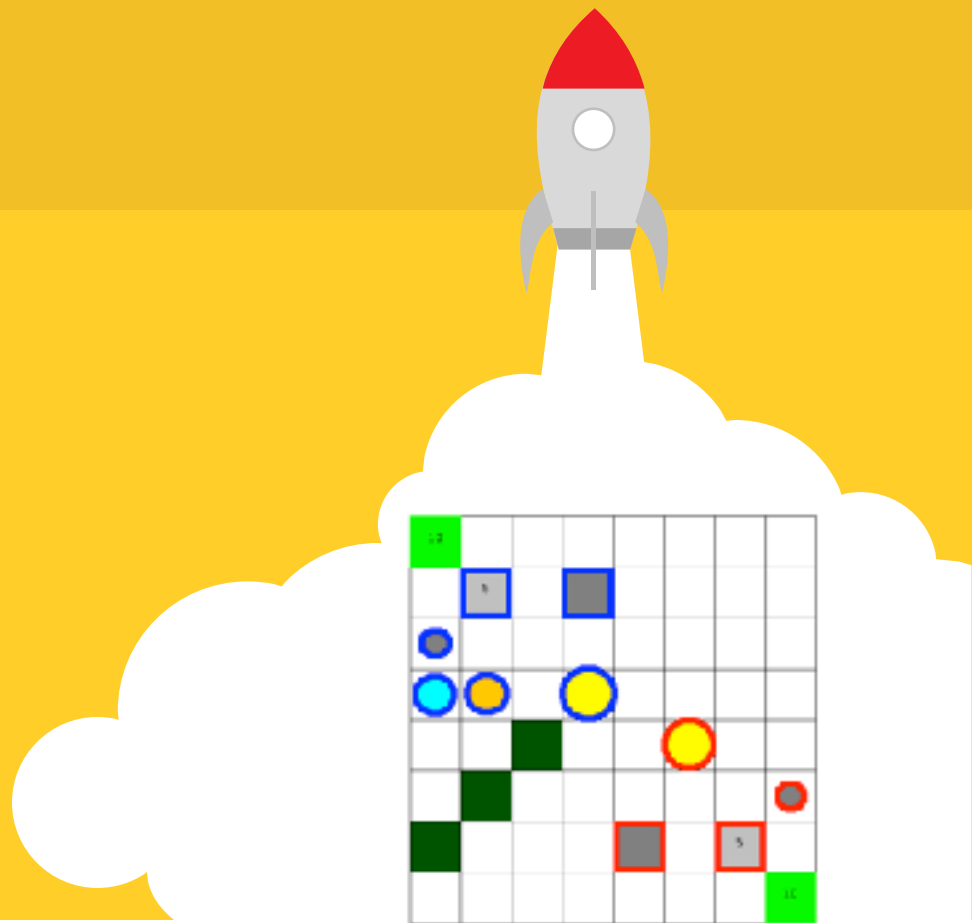
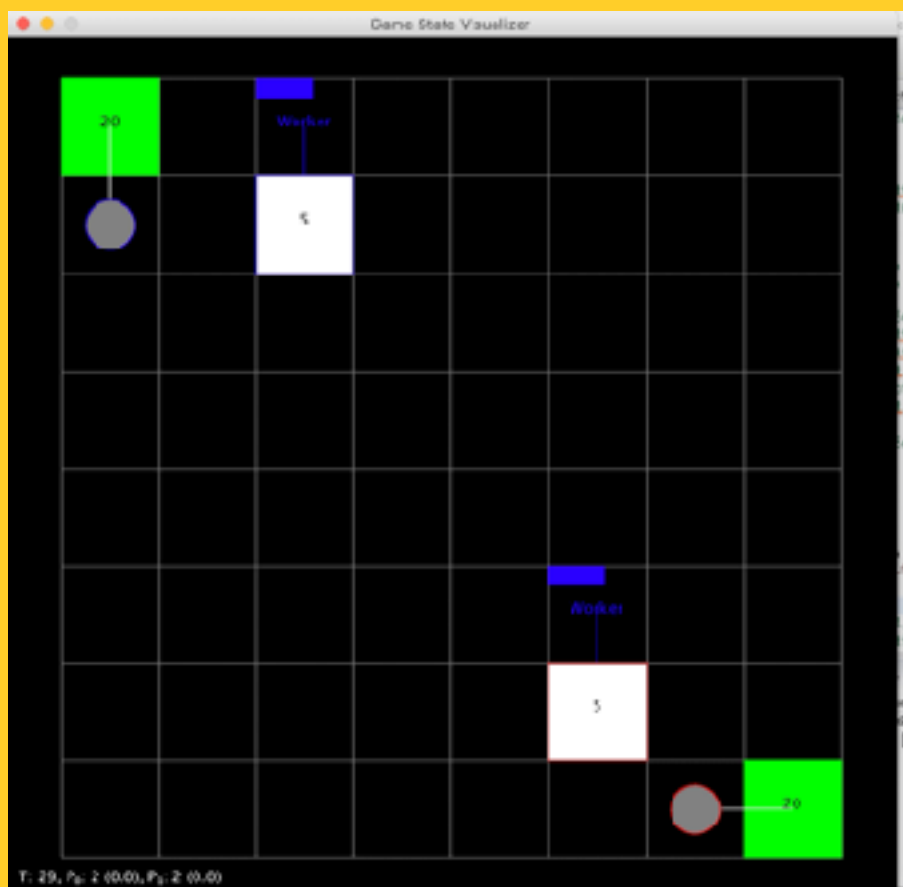


MicroRTS AI Competition 2023

Rubens Moraes - Universidade Federal de Viçosa - Brazil
Levi Lelis - University of Alberta - Amii - Canada







Summary

01

Participants

11 competitors from 5 different universities

02

Maps

12 maps: 8 for ranking + 4 for research purposes

03

Round Robin

10 for each map

04

Baselines

6 baselines

Participants

Bot Name	University/City	Bot Type
Predator	Frankfurt University of Applied Sciences	Programmatic Policy
myBot	Frankfurt University of Applied Sciences	Programmatic Policy
sophia	Game AI Group of Queen Mary University of London	Programmatic Policy
NIIS-iBot	Otto-von-Guericke University, Germany	Programmatic Policy
BRHEAdBot	Otto-von-Guericke University, Germany	Programmatic Policy
ObiBotKenobi	Otto-von-Guericke University, Germany	Programmatic Policy
Aggrobot	Otto-von-Guericke University, Germany	Programmatic Policy
MyMicroRtsBot	Otto-von-Guericke University, Germany	Programmatic Policy
SaveTheBeesV4	Otto-von-Guericke University, Germany	Programmatic Policy
RAISocketAI	San Francisco, CA - USA	Deep RL
Ragnar	UofA - Alberta Canada	Synthesized Programmatic Policy



Maps

Public Maps	Hidden Maps
8x8/basesWorkers8x8A.xml	maps/itsNotSafe.xml
8x8/FourBasesWorkers8x8.xml	maps/24x24/basesWorkers24x24A.xml
NoWhereToRun9x8.xml	maps/chambers32x32.xml
16x16/basesWorkers16x16A.xml	maps/basesWorkers32x32A.xml
16x16/TwoBasesBarracks16x16.xml	
DoubleGame24x24.xml	
BWDistantResources32x32.xml	
BroodWar/(4)BloodBath.scmB.xml	



Results on Public Maps



Bots	Win Rate
RAISocketAI (Winner)	72.15
ObiBotKenobi	66.48
Aggrobot(AStarPathFinding)	64.77
sophia	62.07
bRHEAdBot	60.63
Ragnar	56.33
SaveTheBeesV4	54.34
MyMicroRtsBot	49.34
NaiveMCTS	40.35
myBot	39.92
NiISiBot	34.69
Predator	25.66

Results on Public Maps with Baselines



Bots	Win Rate
Mayari (BL)*	82.42
2L (BL)*	76.02
RAISocketAI (Winner)	72.15
ObiBotKenobi	66.48
Aggrobot(AStarPathFinding)	64.77
sophia	62.07
bRHEAdBot	60.63
Ragnar	56.33
POLightRush(BL)*	55.31
SaveTheBeesV4	54.34
POWorkerRush (BL)*	53.28
MyMicroRtsBot	49.34
NaiveMCTS	40.35
myBot	39.92
NIISiBot	34.69
Predator	25.66
RandomBiasedAI (BL)*	18.87

Results on Public and Hidden Maps



Bots	Win Rate
Mayari (BL)*	85.1
2L (BL)*	76.67
ObiBotKenobi	67.16
Aggrobot	66.56
bRHEAdBot	64.71
Ragnar	62.45
POLightRush(BL)*	59.9
sophia	58.65
RAISocketAI	55.57
SaveTheBeesV4	51.95
POWorkerRush(BL)*	48.8
myBot	46.61
MyMicroRtsBot	44.92
NaiveMCTS(BL)*	40.26
NIISiBot(GreedyPathFinding)	36.9
Predator	23.72
RandomBiasedAI(BL)*	16.67