

overlooked multiagent environment
structured multiagent challenge

Swarm particle simulation

Curriculum adversarial training

Ensemble RL

Namedtuple aware test domain

resume / website update

blurbs on topics w/ summaries

Final RMZ state transfer

MEB31 Project: simulation: matrix transforms
Harvest ENV

Paper parser

masters rough draft

auto curricula proposal

more support types / methods of support

support as an action

Population migration

Tensor/RM2 integration

Masters registries

credits, committee, paperwork

QD inherent Diversity proposal

Vision state representation

Survey Papers

Fitness models

ENV generation

QD methods

Island models

Frame reliance as a tradeoff of individualized skills
and all learning simultaneously

reliance to fixed/contributor
cannot have everyone possibly switch behaviors

not using own behaviors versus relying on others
shared policies all learn same thing

↓
tell other agents
how to act/
what to do

act function on island
(learn on mainland)
→ Another island multiobjective } islands produce instructions
for optimization process
running on mainland
EAs from local machine
based on steady conditions

Q61 - look at diversity as an inherent characteristic based on the network, not the behavior

- in RL, behavior might come later since the changes are gradual and specific in order to achieve a desired behavior

- in RL, the alteration may or may not have a direct impact on the expressed behavior as the reachability set is based on the weights altered

- it Q1) is the end step, behaviors are what we are looking for, but it is a step before optimization, there we would care about ^{diversity in} how they can be achieved

- basing diversity on characteristics of the behavior is also very domain dependent as determining what behavior means is very

from bounded
- reachability analysis

Stack of rules

Bias \leftrightarrow var

weight policies based on state features
Simple

Non stationarity is a core challenge in multiagent learning. Some methods of dealing with it break learning into several phases, where the first phase learns individual skills, and then a separate optimizer learns to select between these high level skills, effectively reducing the requirement that agents handle upon random joint actions that lead to an external reward. (Self-play, options)

Another approach employed by UCBer rewards is to freeze the policies of other agents in the system and cycle through the agents such that only a single agent is actually updating its policy at any given iteration. The challenge here is that this greatly increases the combinatorial burden of the learning process, and more the agents more likely to converge to a local optimum due to additional factors such as the ordering the agents are cycled through or how many iterations each agent is allowed to learn before freezing it.

and allowing another agent to update its policy.
In this paper

^{intentionally altered}
Bring up individualistic behaviors when discussing
weaknesses of multi-agent approach

Program of study

Committee Dauter
Greer

Pull from second

edition in Q&A's

John wrote at 11th

13 14 11 R ^{no 2-4}

6 7 6 } fall back
