

Facilitating Delayed-effect Requests on Trigger-Action Programming Frameworks

Project for Reinforcement Learning CS394R

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Dependencies:

Our program only needs `numpy` to run.

Go to the source folder

To run the program, go the source folder

```
cd src
```

Configurations

We support different configurations in our program in order to run experiments easily.

To get the available options:

```
python3 main.py
```

The options are:

- **oven**: To enable oven rule.
- **coffee**: To enable coffee rule.
- **etrace/sarsa**: Choose the algorithm, "etrace" is Sarsa(λ), "sarsa" is n-step Sarsa
- **extraFeature**: enable Extra features
- **baseline**: Run baseline approach

Examples:

1. Run with oven environment, N-step Sarsa:

```
python3 main.py "oven sarsa"
```

2. Run with oven environment, N-step Sarsa and extra features:

```
python3 main.py "oven sarsa extraFeature"
```

3. Run with coffee environment, Sarsa(λ):

```
python3 main.py "coffee etrace"
```

4. Run with both rules, N-step Sarsa and extra features(This one is slow):

```
python3 main.py "coffee oven sarsa extraFeature"
```