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**Re: Reproducing SAC UAV Paper - Ophir**

16 messages

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**Gabriel Moraes Barros** <gabrielmoraesbarros@gmail.com>  
To: Ophir Gal <ophirgal@umd.edu>

Sat, Nov 14, 2020 at 7:53 PM

Hi Ophir, thanks for your contact.

I've fixed the README.md since this repository does not need a setup.py script.

I prepared a little test to see if it is a problem with SAC\_uav or with Drone\_RL and Pyrep.

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env = DroneEnv(random='Gaussian', state='New_Double')
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Em sáb., 14 de nov. de 2020 às 21:15, Ophir Gal <ophirgal@umd.edu> escreveu:

Dear authors,

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University of Campinas, SP - Brazil



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**Ophir Gal** <ophirgal@terpmail.umd.edu>

Sat, Nov 14, 2020 at 8:40 PM

To: Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com>

Cc: Ophir Gal <ophirgal@umd.edu>

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Ophir Gal <ophirgal@terpmail.umd.edu>

Sun, Nov 15, 2020 at 12:28 AM

To: Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com>

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Sun, Nov 15, 2020 at 5:09 PM

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Can you run this script in your env? It imports DroneEnv, instantiates a DroneEnv class (that fails if Pyrep isn't correctly installed), and runs a random policy in our scene.

Best regards,  
Gabriel.

```
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# env = DroneEnv(random=False)
# env = DroneEnv(random='Discretized_Uniform', state='New_Double')
# env = DroneEnv(random='Uniform', state='New_Double')
env = DroneEnv(random='Gaussian', state='New_Double')
state = env.reset()
print(state.shape)
for i in range(20):
    a = np.asarray([0,0,0,0])
    next_state, reward, done, env_info = env.step(a)
    print(next_state.shape)
    print('ok')
env.shutdown()
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Any help would be deeply appreciated,

Best,  
Ophir

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**Ophir Gal** <ophirgal@terpmail.umd.edu>  
To: Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com>

Sun, Nov 15, 2020 at 5:35 PM

I uninstalled all my python versions, and now I only have python 3.8.2 on my computer, I have Coppelia, PyRep, and I've installed Drone\_RL, and the 4 packages in your requirements.txt file I haven't been able to install are:

```
pygobject==3.26.1
python-apt==1.6.5+ubuntu0.3
torch==1.6.0
unattended-upgrades==0.1
```

any advice?

On Sun, Nov 15, 2020 at 5:09 PM Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com> wrote:  
Anything 3.4+ should work. I've tested in a 3.8 and it worked.

On Sun, Nov 15, 2020 at 6:44 PM Ophir Gal <ophirgal@terpmail.umd.edu> wrote:  
Which version of Python did you use for this project?

On Sun, Nov 15, 2020 at 12:28 AM Ophir Gal <ophirgal@terpmail.umd.edu> wrote:  
Thanks! I'll keep try your suggestions, and it's definitely possible that I have some conflict of python versions, I have multiple versions installed since they were needed for different projects, this is what I get when running `python -c "import sys;print(sys.path)"` (which is using a 32-bit python):

```
['', 'C:\\Program Files (x86)\\Python38-32\\python38.zip', 'C:\\Program Files (x86)\\Python38-32\\DLLs', 'C:\\Program Files (x86)\\Python38-32\\lib', 'C:\\Program Files (x86)\\Python38-32', 'C:\\Users\\ophir\\AppData\\Roaming\\Python\\Python38\\site-packages', 'C:\\Program Files (x86)\\Python38-32\\lib\\site-packages']
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state = env.reset()
print(state.shape)
for i in range(20):
    a = np.asarray([0,0,0,0])
    next_state, reward, done, env_info = env.step(a)
    print(next_state.shape)
```

```
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env.shutdown()
```

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Best,  
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To: Ophir Gal <[ophirgal@terpmail.umd.edu](mailto:ophirgal@terpmail.umd.edu)>

Sun, Nov 15, 2020 at 5:40 PM

Nice, I think you do not need them. They are probably dependencies of some other package (pandas, torch, etc).

Install torch 1.6.0 and I think you are good to go. <https://pytorch.org/get-started/previous-versions/>

Gabriel

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**Ophir Gal** <ophirgal@terpmail.umd.edu>

Sun, Nov 15, 2020 at 6:43 PM

To: Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com>

I've installed torch, and for sure installed Drone\_RL , and I still get this when running the training script :

```
Traceback (most recent call last):
  File "main.py", line 13, in <module>
    from sim_framework.envs.drone_env import DroneEnv
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Any ideas?

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Gabriel

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**Ophir Gal** <ophirgal@terpmail.umd.edu>

Sun, Nov 15, 2020 at 6:48 PM

To: Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com>

I tried overriding this by simply copying over the files from the Drone\_RL folder. It seems that I'm getting some errors about packages missing, and I think this is because my PATH is cluttered with paths to the previous versions of Python which are now deleted from my computer.. will get to the bottom of this..

On Sun, Nov 15, 2020 at 6:43 PM Ophir Gal <ophirgal@terpmail.umd.edu> wrote:

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Sun, Nov 15, 2020 at 6:50 PM

To: Ophir Gal <ophirgal@terpmail.umd.edu>

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Sun, Nov 15, 2020 at 7:05 PM

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See if you can run one example from here <https://github.com/stepjam/PyRep/tree/master/examples>

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Sun, Nov 15, 2020 at 7:08 PM

Tried the first example and got the same exact import error.

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Install torch 1.6.0 and I think you are good to go. <https://pytorch.org/get-started/previous-versions/>

Gabriel

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**Gabriel Moraes Barros** <gabrielmoraesbarros@gmail.com>  
To: Ophir Gal <ophirgal@terpmail.umd.edu>

Sun, Nov 15, 2020 at 7:09 PM

Yes, I see. It seems that Pyrep is not compatible with Windows :/

On Sun, Nov 15, 2020 at 9:08 PM Ophir Gal <ophirgal@terpmail.umd.edu> wrote:  
Tried the first example and got the same exact import error.

On Sun, Nov 15, 2020 at 7:05 PM Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com> wrote:  
I see. It really seems that the problem is Pyrep.

See if you can run one example from here <https://github.com/stepjam/PyRep/tree/master/examples>

On Sun, Nov 15, 2020 at 9:00 PM Ophir Gal <ophirgal@terpmail.umd.edu> wrote:  
I have pyrep installed, but it's a more recent version than 1.2 that's stated in you're requirements file, and I'm getting the following:

```
Traceback (most recent call last):  
  File "main.py", line 13, in <module>  
    from sim_framework.envs.drone_env import DroneEnv  
  File "C:\Users\ophir\SAC_uav-master\sim_framework\envs\drone_env.py", line 11,  
    in <module>  
    from pyrep import PyRep  
ImportError: cannot import name 'PyRep' from 'pyrep' (C:\Users\ophir\AppData\Roaming\Python\Python38\site-packages\pyrep\__init__.py)
```

On Sun, Nov 15, 2020 at 6:50 PM Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com> wrote:  
Nice, we are getting closer.

If sim\_framework was installed correctly, the environment should appear in your path.

`python -c "import sys; print(sys.path)"` to see if Drone\_RL environment is there.

Gabriel.

On Sun, Nov 15, 2020 at 8:43 PM Ophir Gal <ophirgal@terpmail.umd.edu> wrote:  
I've installed torch, and for sure installed Drone\_RL , and I still get this when running the training script :

```
Traceback (most recent call last):  
  File "main.py", line 13, in <module>  
    from sim_framework.envs.drone_env import DroneEnv  
ModuleNotFoundError: No module named 'sim_framework'
```

Any ideas?

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**Ophir Gal** <ophirgal@terpmail.umd.edu>

Sun, Nov 15, 2020 at 7:11 PM

To: Gabriel Moraes Barros <gabrielmoraesbarros@gmail.com>

Thank you Gabriel you've been very kind, I don't feel good about taking any more of your time, I'll let you know if I find a solution. (but feel free to let me know if you do).

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