Journal of building engineering Building Simulation Abstract
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The may want to add an experiment whe prefrained agent for constat pricing G Cenario is brid) > Same of Mode 26 ased RL with > Methodology policy gradient / Reinforce > Transfer le aning >> statespace gerrains same, NN => How sporce seward is created and used in policy gradient algorithm. ALGORITHM STARTS BELOW

(1) 0=0I = Initiolized T=13kk T=13kk T=13kk T=13kk T=13kk T=13kk V=1 V=1The negetive sign is to indicate we need to coary out gradient ascent instead of descent. After training, 0=0T

Approach 2: Initialize F-672 pump. Paetraining: policy-loss=-5 log(po(st)). Rt After pretaroining: 0=0pt Fine tuning: policy-loss = - \left\{ \log(\Pop(\left\))\Rt il f./20/=0 After Finetuning: P = 0 F

(3) Approach 3: Hero we pretrain using an environment model and bineture the envisonment model on bestest-hydronic. We then use the finetuned envisonment model to train the RLagent Initialize: 0= OI (For (St, at) [0] - St+1)2 Protraining. + (E & (St, at) [1] - Rt) Afterpretraining: O= OFp.T Finetuning F=13kk  $= \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) \right) + \left( \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) + \left( \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) + \left( \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) + \left( \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) + \left( \frac{1}{2} + \frac{1}{2} \right) \left( \frac{1}{2} - \frac{1}{2} \right) \left( \frac{1}$ => only colculate loss when t1.50 1=0

After Finetuning: 0= 0F

Now training the policy gradient

Policy loss: - \( \) \log(\text{Pop} (\left \star)), Rt

t=1

where,  $T_6 + 1.50 = 0 \Rightarrow U \leq 10$  actual.

2 nvisonment

t 1,50]=0 => Use the surrigate environment.