AerialWildfireSuppression Train & Test Metrics: Difficulty: 4, Task: 5 Entropy Water Drop Water Pickup **Preparing Trees Reward Preparing Trees Extinguishing Trees Reward** 1.00 ┬ 0.05 0.05 -0.05 0.05 source source source source source training --- training training training training Value Value Value source 0.00 0.00 0.95 -0.00 test — test test — test — test training test -0.05-0.05-0.051.5 0.5 1.5 1.0 1.5 0.0 0.0 0.5 0.0 1.5 0.5 1.5 0.5 1.0 1.5 1.0 1.0 0.0 0.5 1.0 0.0 0.5 0.0 1.0 1e6 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step Step **Extinguishing Trees** Fire Out Fire too Close to City Crash Count **Episode Length** Extrinsic Value Estimate 0.05 0.05 0.05 source source source source source 0.02 -250 40 training training training training training 0.00 source Value 70 -<u>기</u> 200 0.00 0.00 test test test test training 150 test -0.05-0.05 --0.05 0.00 1.5 1.0 1.5 0.0 1.5 0.0 0.5 1.5 0.0 0.5 1.0 0.0 1.5 0.0 0.5 1.5 0.0 1.0 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 Step 1e6 **Cumulative Reward** Extrinsic Reward Policy Loss Value Loss Learning Rate Epsilon 0.20 95 -95 source source <u>v</u> 0.0002 training training 9 Value - 000 -Value 06 Nalue - 0.15 source source source source test test training training training 0.04 test - test test 0.0000 0.0 0.0 0.5 1.0 1.5 0.0 0.5 1.0 1.5 1.5 0.0 0.5 1.0 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 0.5 1.0 0.0 1e6 1e6 1e6 1e6 1e6 Step 1e6 Step Step Step Step Step Beta source 0.004 training 8 0.002 · test 0.000 1.0 0.5 1.5 0.0

Step

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