AerialWildfireSuppression Train & Test Metrics: Difficulty: 8, Task: 7 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 0.05 -0.05 0.05 -2.00 -0.05 0.05 source source source source source source — training training training training training training <u>a</u> 1.75 Value Value Value Value 0.00 0.00 0.00 0.00 0.00 test — test test — test — test 1.50 -0.05 -0.05-0.05-0.051.5 1.5 1.0 1.5 0.0 0.5 0.5 1.5 0.5 1.5 0.5 1.0 1.5 0.0 1.0 0.0 1.0 0.0 0.5 1.0 0.0 0.5 0.0 1.0 1e6 1e6 Step 1e6 1e6 1e6 1e6 Step Step Step Step Step **Extinguishing Trees** Fire Out Fire too Close to City Crash Count Episode Length Extrinsic Value Estimate 100 + 0.05 0.05 0.05 source source source source source source training training **Ψ** 2000 -- training training 0.00 0.00 0.00 test test test -0.05-0.05 --0.05 0.5 1.0 1.5 0.0 1.5 0.5 1.5 0.0 0.5 1.5 0.0 1.0 0.0 0.5 1.0 1.5 0.0 1.5 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 0.06 -2000 100 100 source source source \alpha \cdot training training Value Value Value Value 1000 Nalue - 0.15 source source test training - training test test test 0.04 -100-100 0.0000 0.5 1.5 0.0 0.5 1.5 0.0 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 0.0 1.0 0.5 1.0 0.5 1.5 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

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