## AerialWildfireSuppression Train & Test Metrics: Difficulty: 10, Task: 7 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 0.05 -0.05 0.05 0.05 source source source source source source 2.00 — training training training --- training training Value Value Value Value 0.00 0.00 0.00 0.00 test — test test — test — test -0.05 1.50 -0.05-0.05-0.051.5 1.5 1.5 0.5 0.5 1.5 1.0 0.5 1.5 0.0 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 1e6 1e6 1e6 1e6 Step Step Step Step Step Step **Extinguishing Trees** Fire too Close to City Fire Out Crash Count Episode Length Extrinsic Value Estimate 0.05 0.05 0.05 100 source source source source source source training training training 0.00 0.00 test test test -0.05 --0.05 -0.050.0 -1.0 1.5 0.0 1.5 0.0 0.5 1.5 0.0 1.5 0.0 1.0 1.5 0.0 1.5 0.0 0.5 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** 0.06 0.20 2000 source source source 100 100 <u>υ</u> 0.0002 training Value Value Value 20.0 Nalue - 0.15 source test training test 0.04 -100 -100 0.0000 1.0 1.5 0.0 0.5 1.5 1.5 0.0 0.0 0.5 1.0 1.5 0.5 1.0 1.5 0.0 1.0 1.0 0.5 1.5 0.0 1e6 1e6 1e6 1e6 1e6 Step Step Step Step Step 1e6 Step Beta source 0.004 8 0.002 · training test 0.000 1.0 0.5 1.5 0.0

Step

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