AerialWildfireSuppression Train & Test Metrics: Difficulty: 9, Task: 5 Entropy Water Drop Water Pickup **Preparing Trees Extinguishing Trees Reward Preparing Trees Reward** 1.000 -0.05 0.05 -0.05 0.05 -1.6 source source source source source source — training training training training training training Value Value 0.975 -Value Value Value 0.00 0.00 0.00 — test — test test — test test — test 0.950 --0.05-0.05-0.05-0.051.5 0.0 0.5 1.5 1.5 1.5 0.0 0.0 0.5 1.0 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 Episode Length Fire too Close to City Crash Count Extrinsic Value Estimate 0.05 0.05 0.05 source source source source 250 source 40 -Value Value training training training training training 0.00 source <u>a</u> 200 0.00 0.00 test test test training test 150 -0.05 --0.05 -0.051.5 1.0 1.5 0.0 1.5 0.0 0.5 1.5 0.0 0.5 0.0 1.0 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 0.06 source source source 400 94 Aalue 92 94 Value <u>υ</u> 0.0002 training training Nalue - 0.15 source source 0.05 test test training training training 92 test test test 0.04 0.0000 0.0 0.5 1.0 1.5 0.0 0.5 1.5 0.0 0.5 1.5 0.0 0.5 1.0 1.5 0.5 1.0 1.5 1.0 0.5 1.0 1.5 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

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