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Algorithm 1 Motor Babbling Paradigma
1: Initialize \underline{\theta}_{target}
2: for n\_trials in (1,000, 2,000, 4,000, 8,000, 16,000, 32,000) do
3:
       function TrainReach(n_trials)
4:
          for i = 0 to n-trials do
5:
             \underline{\theta}_{target}, \underline{x}_{target} \leftarrow \text{GenerateRandomTarget}()
6:
             Simulate (50ms) without Inputs
7:
             CM.r = PopulationCode(\underline{\theta}_{target})
8:
             S1.r = BivariateGauss(\underline{\theta}_{init})
9:
             PM.r = BivariateGauss(\underline{x}_{target})
10:
             SNc.r = 1.0
11:
             Simulate(450ms)
12:
             \underline{\theta}_{init} \leftarrow \underline{\theta}_{target}, \, \underline{x}_{out} = \text{ForwardKinematic}(\underline{\theta}_{M1})
13:
              ResetNetwork()
14:
           end for
15:
        end function
        function TestReach(trials = 100) return error = ||\underline{x}_{target} - \underline{x}_{out}||
16:
        end function
17:
18: end for
```