
Algorithm 1 pseudocode for Pong

- 1: Xavier initialization: Initialize the weight parameters
 - 2: **while** $i = 1$ to N **do**
 - 3: Preprocessing
 - 4: Policy forward
 - 5: Sample action, receive reward
 - 6: Policy gradient
 - 7: **if** Finish one batch: **then**
 - 8: Rmsprop update
 - 9: **end if**
 - 10: **end while**
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