Algorithm 1 Learner. Inputs: Empty recreated model rm, trace observation $trace$, similarity threshold s_{th}. Output: learned recreated model rm

```
1: procedure LEARNER(trace)
2:     for i ← 0, traceArray.Size() do
3:         trace ← traceArray[i]
4:         for j ← 0, trace.Size() do
5:             traceData ← trace[j]
6:             if traceData.isNumeric() then
7:                 buffer ← bufferInit(timeStep, bufferSize, traceData)
8:                 analysis ← fitData(timeStep, buffer, traceData)
9:                 traceAnalysisList.add(analysis);
10:            end if
11:        end for
12:    end for
13: end procedure
```