```
from particle_swarm_optimization import Particle
2 from particle swarm optimization import ParticleSwarmOptimization
 3 | from backpropagation_neural_net import BackpropagationNN, Neuron
4 from random import random
   # import pandas as pd
5
6 # from matplotlib import pyplot as plt
7
8
9
   class BackpropagationPSO(BackpropagationNN):
10
       def __init__(self, input, hidden, output, learning_rate):
11
            super().__init__(input, hidden, output, learning_rate)
12
13
       def initWeight(self, partikel):
14
15
            layer = list()
16
            partikel_dimens_idx = 0
17
            input_to_hidden = list()
18
19
            for i in range(self.HIDDEN_LAYER):
                w = list()
20
                for j in range(self.INPUT_LAYER):
21
                    w.append(partikel[partikel_dimens_idx])
22
23
                    partikel_dimens_idx += 1
24
25
                w.append(random())
                input to hidden.append(Neuron(w))
26
27
            layer.append(input to hidden)
28
29
           hidden_to_output = list()
            for i in range(self.OUTPUT_LAYER):
30
31
                w = list()
32
                for j in range(self.HIDDEN_LAYER + 1):
33
                    w.append(random())
34
                hidden to output.append(Neuron(w))
```

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