

Protein-split_supplement1

BP neural network (Dichotomous model)

Principle: Back-Propagation

Data training:

Factor×3; label×1

Label: T:1:[1,0]; F:0:[0,1]

Input(array): 62×3;

Output(array):62×1;

Network structure :

innum=3;

midnum=4;

outnum=2;

Method of calculation:

```
for ii=1:1
    for i=1:X
        for j=1:1:midnum
            I(j)=inputn_test(:,i)*w1(j,:)+b1(j);
            Iout(j)=1/(1+exp(-I(j)));
        end
        fore(:,i)=w2'*Iout'+b2;
    end
end
```