

1  
2  
?  
3  
?

4  
5  
6  
7  
8  
9  
10  
11

?  
?  
f2  
?  
?  
?

13  
14

?  
f5

$model[] : HMAX[?].S1.C1S1.S2.C2S2.[?]$

16  
17  
?  
?  
?

?

$s \times$   
 $s$

18  
19  
20  
21  
22  
23

---

Rosenblatt  
Perceptron  
Spiking  
Neu-  
ral  
Net-  
works  
Warren  
Mc-  
Cul-  
loch  
Walter  
Pitts  
Logic  
cir-  
cuit  
Frank  
Rosen-  
blatt  
Marvin  
Min-  
sky  
Seymour  
Pa-  
pert  
John  
Hop-  
field  
David  
Rumel-  
hart  
Flash  
Hierarchical  
con-  
vo-  
lu-

24  
25  
26

