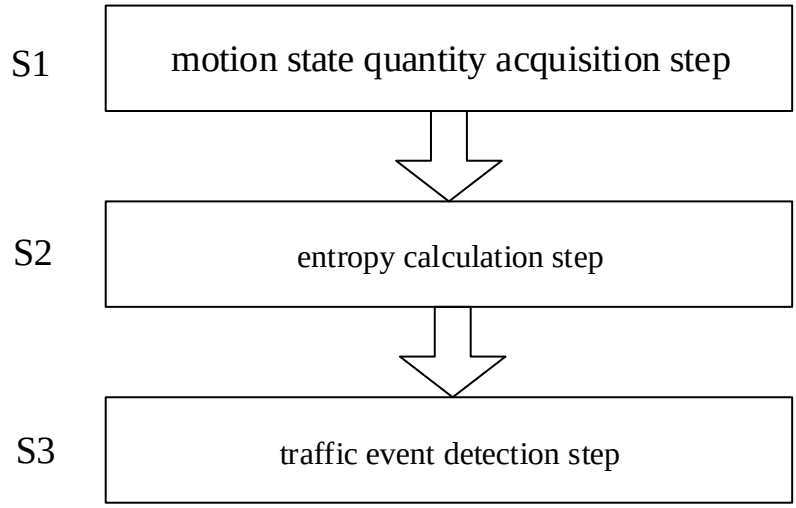

S1
motion state quantity acquisition step
S2
entropy calculation step
S3
traffic event detection step

FIG. 1

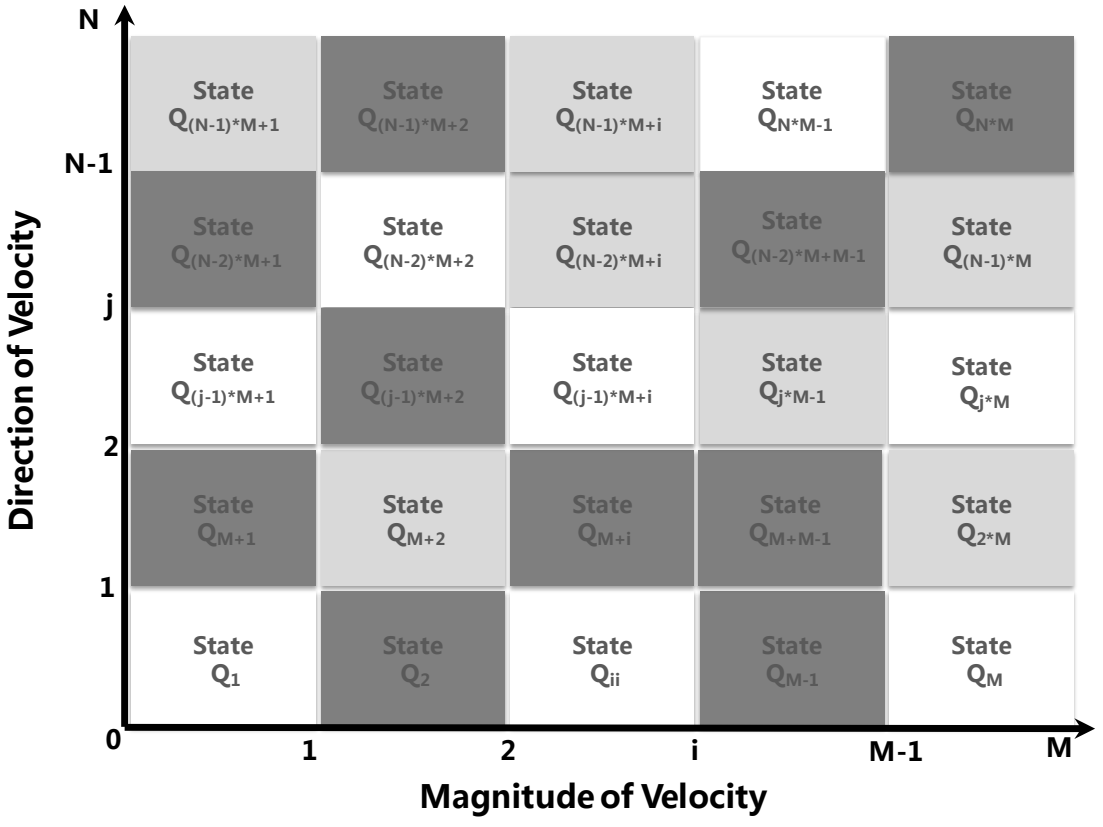

N
N-1
j
2
1
0
Direction of Velocity
State Q(N-1)*M+1
State Q(N-1)*M+2
State Q(N-1)*M+i
State QN*M-1
State QN*M
State Q(N-2)*M+1
State Q(N-2)*M+2
State Q(N-2)*M+i
State Q(N-2)*M+M-1
State Q(N-1)*M
State Q(j-1)*M+1
State Q(j-1)*M+2
State Q(j-1)*M+i
State Qj*M-1
State Qj*M
State QM+1
State QM+2
State QM+i
State QM+M-1
State Q2*M
State Q1
State Q2
State Qii
State QM-1
State QM
1
2
i
M-1
M
Magnitude of Velocity

FIG. 2

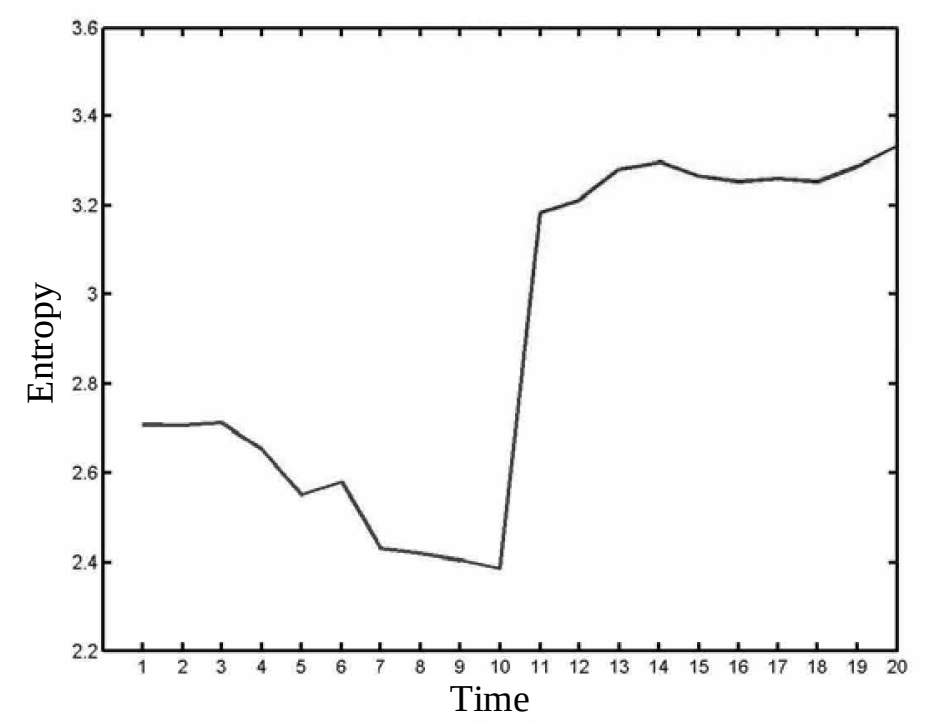

Entropy
Time
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

FIG. 3

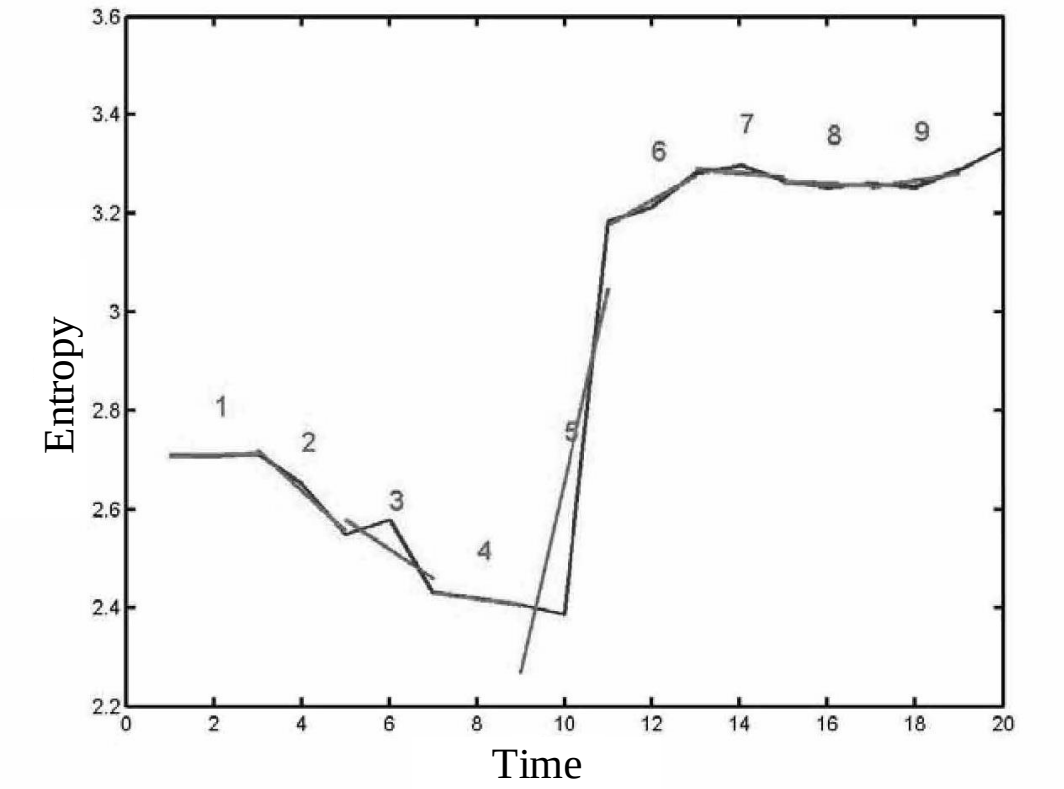

Entropy
Time
1
2
3
4
5
6
7
8
9
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
0 2 4 6 8 10 12 14 16 18 20

FIG. 4

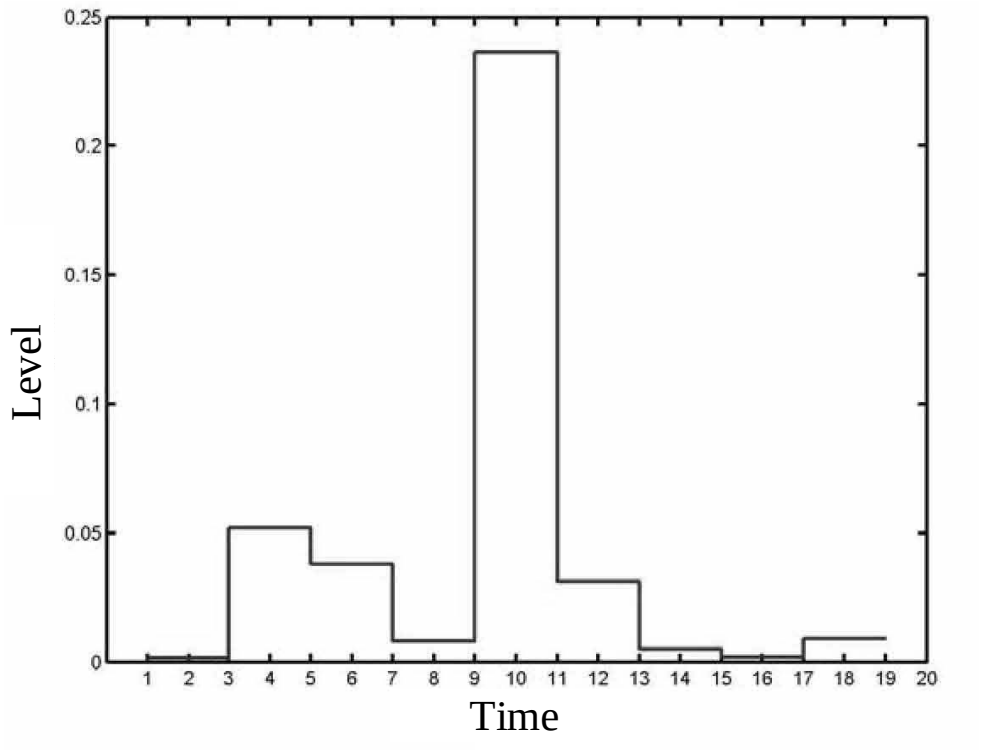

0.25
0.2
0.15
0.1
0.05
0
Level
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
Time

FIG. 5

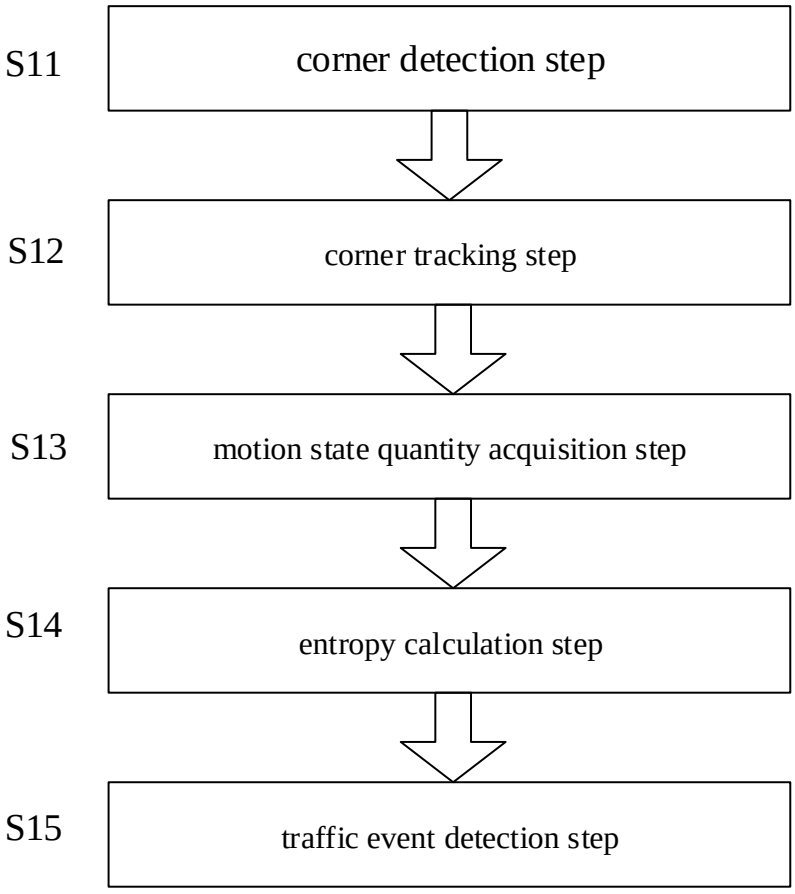

S11
corner detection step
S12
corner tracking step
S13
motion state quantity acquisition step
S14
entropy calculation step
S15
traffic event detection step

FIG. 6

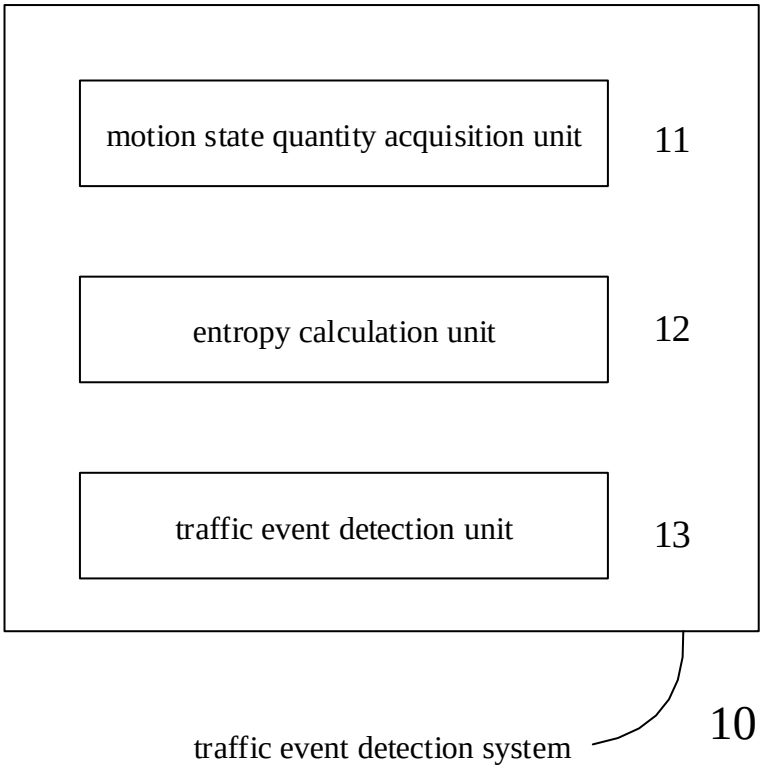
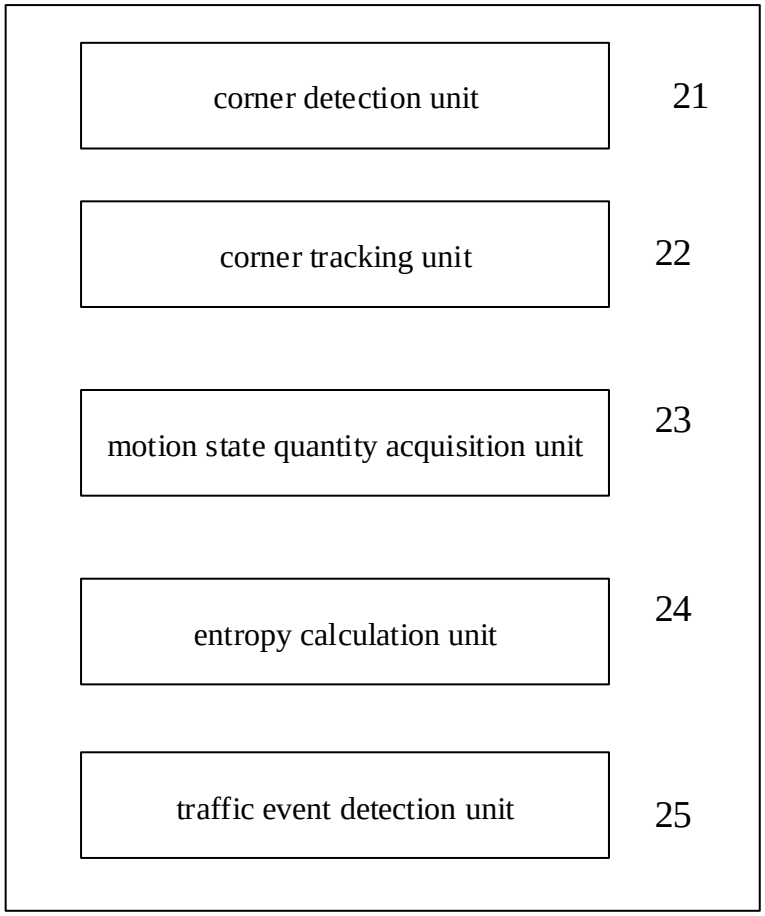

motion state quantity acquisition unit
11
entropy calculation unit
12
traffic event detection unit
13
traffic event detection system
10

FIG. 7



traffic event detection System 20

FIG. 8



FIG. 9A

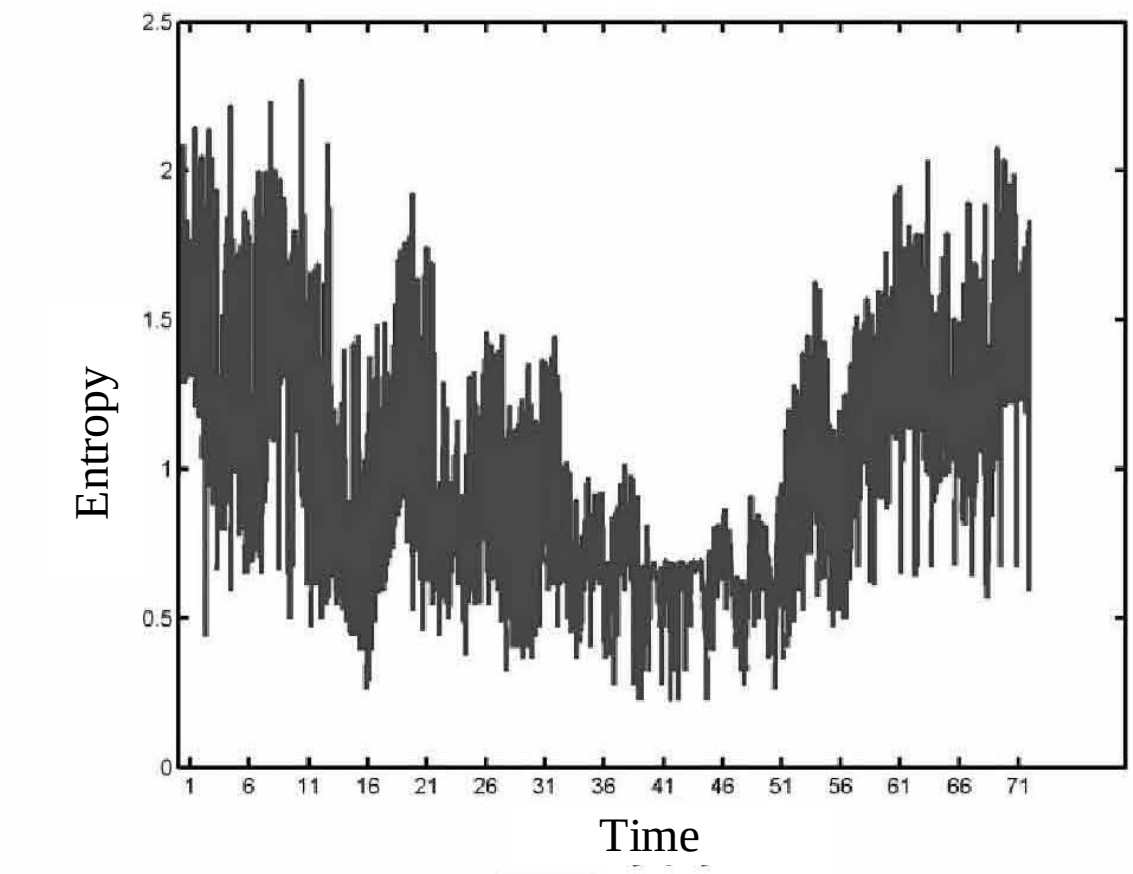


FIG. 9B

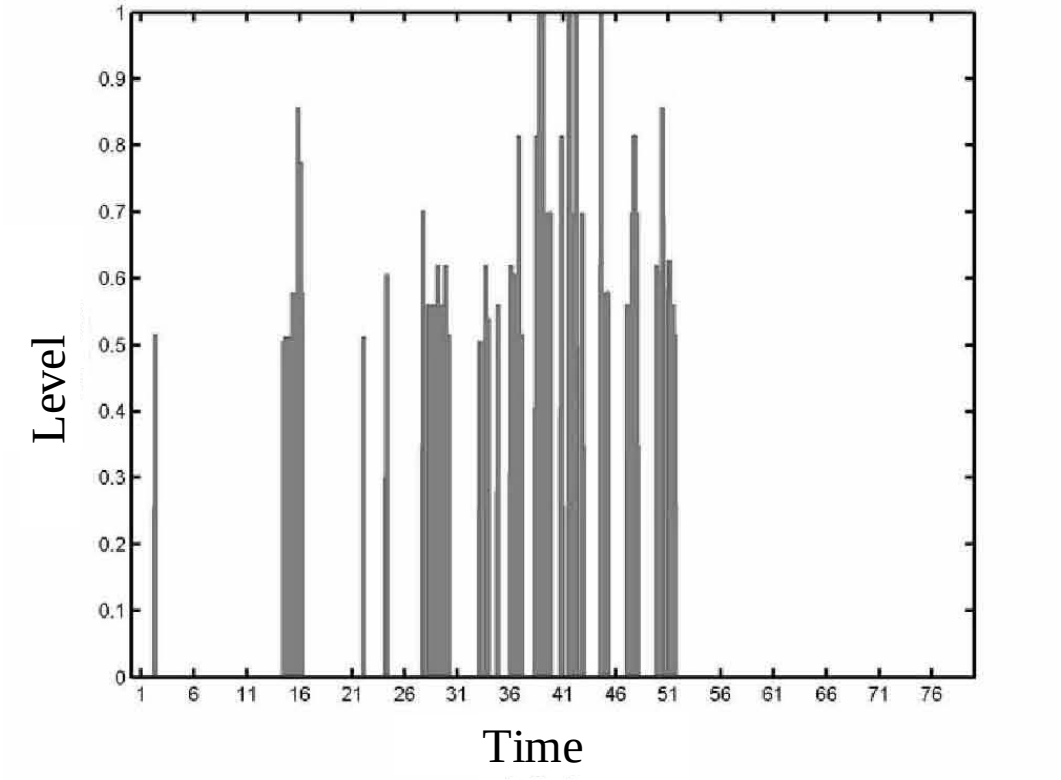

Level
Time
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1
6
11
16
21
26
31
36
41
46
51
56
61
66
71
76

FIG. 9C

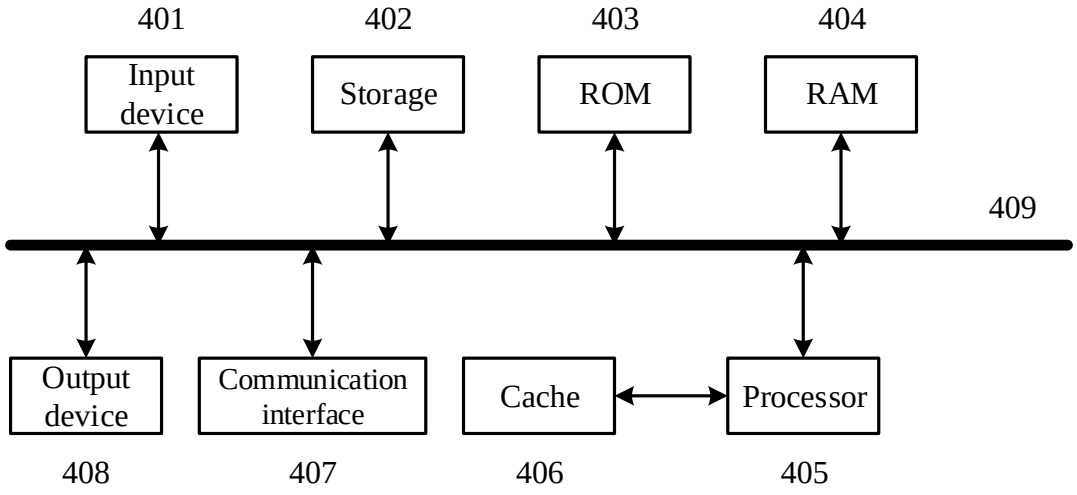

401
402
403
404
Input device
Storage
ROM
RAM
409
Output device
Communication interface
Cache
Processor
408
407
406
405

FIG. 10