

2020

2020

15

1.3

4

6

**1.**

-

1

/

80%

40%

1/10

30000

2000

2.

75%

3.

:

50%

4.

:

GNSS

PPP

RTK

GNSS

/

:

GNSS

70%~80%

90%

0.001

GNSS

1%

1

1.5

28dB

5%

5.

- -

ABAQUS Ansys 8 1

**6.**

NURBS

NURBS

10%

CAM

10%

10%

NURBS

1

CAD-CAM-CNC

5

2

7.

:

:

8

500

36

15%

20%

**8.**

5

2

85%

3D

97%

**9.**

PDE

3D

3D/4D

95%

15%

**10.**

1-2



3  
3  
TB  
3  
TB  
0.05  
8%  
40%  
**11.**

Hurst  
Hurst  
AI  
5%  
3%  
**12.**

-

1.5

85%

-

7%

**13.**

95

5-10

95%

**14.**

$O(n^c)$

$c > 1$        $c = 1$

**15.**