

105-109
(108)

	.....	10
	.....	16
	.....	25
	.....	2 6
	.....	2 6
	.....	2 6
	.....	2 7
	.....	2 7
	.....	2 7
	.....	2 8
	.....	2 8
	.....	2 9
	.....	2 9
	.....	2 9
	.....	2 9
	.....	3 1
13-1	.....	3 1
13-2	.....	3 3
13-3	.....	3 6
13-4	.....	3 8
13-5	.....	4 1
13-6	.....	4 3
13-7	.....	4 6
(KPI)	.....	48
	.....	4 9
1-1	.....	4 9
( )	.....	4 9
( )	.....	4 9
( )	.....	4 9
1-2	.....	5 6
( )	.....	5 6

( )	.....	5 7
( )	.....	5 7
1-3	().....	6 9
( )	.....	6 9
( )	.....	6 9
( )	.....	6 9
1-4	.....	7 1
( )	.....	7 1
( )	.....	7 1
( )	.....	7 2
1-5	.....	7 7
( )	.....	7 8
( )	.....	7 8
( )	.....	7 9
1-6	.....	8 6
( )	.....	8 6
( )	.....	8 6
( )	.....	8 8
	.....	8 9
( )	.....	8 9
( )	.....	8 9
( )	.....	9 0
	.....	9 7
	.....	9 7
	.....	9 7
	.....	9 7
	.....	1 0 0
( )	.....	1 0 0
( )	.....	1 0 2
( )	.....	1 0 2
	.....	1 0 9
( )	.....	1 0 9
( )	.....	1 0 9
( )	.....	1 1 0
	.....	1 1 6
( )	.....	1 1 6

( )	.....	1 1 6
( )	.....	1 1 6
	.....	1 2 0
( )	.....	1 2 0
( )	.....	1 2 0
( )	.....	1 2 1
	.....	127
	.....	142

105-109

) (

" "

1 0-1 0
()

1 0 4 2

106-107 85
4 3
4 5 14

()

	◎ ~
	1-3 ~
	1-1 1-2

	1-2
	1-5
	1-1
	~
	1-1
	1-1

	~ ~ ~ ~
	1-2 1-4 () ~ ()

	1-2 ~ 105-109

1
2



()



key performance indicator



1 0-5 0 9

1

2

4 2

- -

3 0 0

1 5 0

53

6 8

3 0

1 1

1

4

3

5 0 0 0

7 8

3

1 2

2

7

2

3

7 0 0 0

4 6 . 5

7

2 2

1 2

27

2 0

1 1

3

()

() 9,0 0 0 4 1 0
() 2 0 (1 0 6 4 3 0)

1 0 6 9 (3)

7 8 1 0 0 6 , 5 0 0 1 0 1
8 8 1 6 , 3 8 7 10 5 1,1 5 9 8 1 , 4 9 0 1 0 1 1 0 5
1. 3 5 S C I S S C I 7 0 1 0 1 4 9 4
1 0 53 5 1 0 1 1 0 5 1 .80 (1 0
) 5 1 0 1 4 7 5 1 0 5 6 9 6
1 , 1 0 0(1 0 4 5 4 6 % 5

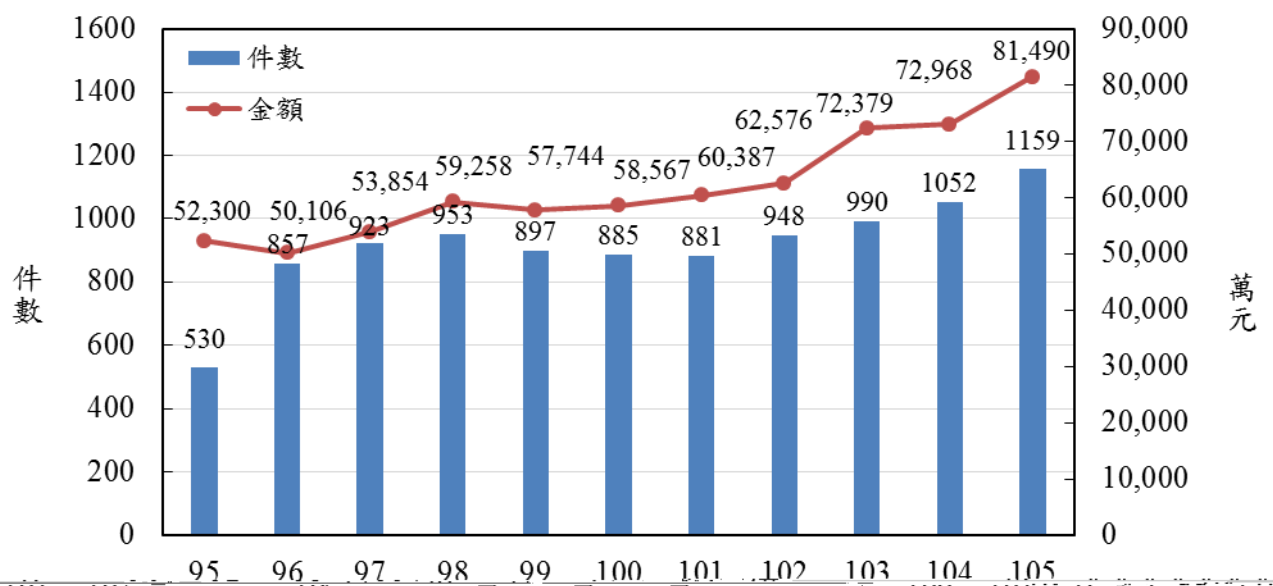
I (S EII)

C h e e r s

T O P 2 0

9 51 0

(S C I + S S C I



9 51 0 5

()

()

1 (E- S O S)

2

3

4 ()

5

6

1 0 5 3

7

1 0 5

8

1 0

9

1 0 5 + 2 •

2 + 2

6 0
()

/

() () () ()

() 1 0 6

1 0 6 9

3 + 1 3 1

1 0 6

5 (AR5)

1

2

3 (2008

)

4

5 (1998

)

6

7

8

5

()

1 C h e e r s (1 4 4 6)

T O P 2 0

2 2 0 1 1 (T i m e s H i g h e r E d u c a t i o n)

4 0 0

3 5 1 4 0 0

2 0 1 3 T H E

7 6

3 2 0 1 4 Q S (Q u a c q u a r e l l i S y m o n d s)

1 9 2 0 0

4 2 0 1 5 (Wo r l d U n i v e r s) i t y We b R a n k i n g
5 2 0 1 5 8 4 1 4
6 2 0 1 7 (1 0 0 0)
1 5
7 2 0 1 5 12
8 2 0 1 7 (T i m e s H i g h e r E d u c a t i o n)
1 5-1 6 0

()
1 11 5
5
(5-1 0 5)
2 12 5 2 6 (4-1 0 5
)
3 (1-0 1
1 0 6)
4 1 0 (1 0 3
5 (1 0 3
6 (1 0 4
7 (E- S O S) (1-1 0 6)
8 (9-10 2)
9 (1-1 0 4)
1 0 (1-1 0 6)
1 1 (1 0 4
1 2 () (1 0 4
1 3 (1 0 5
1 4 () (1 0 6
1 5 ((C)) (1 0 6

()
1
2
3
4

7 . 9 5 %

7 0 3 4 , 6 0 0

5

18 . 31 0 1

1 0

4 9 9 8 , 0 0 0 1 0 5

8

5 7 0 3 , 4 0 0

5

45%

$$3 \qquad \qquad \qquad 1 \ 0 \ 1 \qquad 4 \ 6 \ 8 \qquad \qquad \qquad 1 \ 0 \ 5 \qquad 7 \ 6 \ 3 \qquad 5$$

1 6 .%7 5

4

(1)

1 0-2 0 6 4

5

2

2

(2)

			88	
			89	
			91	
			92	
			95	

(3)

			55	
			62	
			66	
			76	
			84	
			85	
			90	
			93	
			100	

(4)

	76 78 80 82	(84 87) (91)
	78 80 82	(84 87)
		(91)
	80 82 84	(86 89) (92)
	80 83 85	(87 90) (93)
	81 83 85	(87 90) (93)
	81 83 86	(88 91) (94)
	83	
	86	
	88 91 98	
	88	
	91	
	93	
	98	
	100 、 103	

(5)

	91	
	98	
	101	

(6)

	102	(CNRS) Sylvie DUFOUR

(7)

	65	
	71	
	78	
	82	
	91	

(8)

	82	
	85	
	92	
	94	
	94	94
	95	IEEE Fellow
	95	
	96	
	97	
	97	
	97	
	98	
	98	
	99	
	99	
	100	-
	100	- 2
	101	
	1 0 3	
	1 0 5	-

1 0 2

1 0-2 0 3

S W O T

()

SWOT

1		1	5 2
2		2	
3		3	
4		4	
5		5	
6			
7			
1		1	
2		2	
3		3	
4		4	
5			

()

7

2

2

() ()

()

S T C W

I ETE

()

2 0 1 56

2 1

()

13-4

13-4-1

(E A C)

13-4-2

13-4-3

13-4-4

13-4-5

1 0 5

1 / 2

13-4-6 ()

1 2
3 4
5

13-5

lh£

5

l99£

13-5-1

13-5-2

13-5-3

2 0 0 0

13-5-4

13-5-5

2 0 1 5

13-6

9 4 8 1

13-6-1

2 0 0 1

1
3

2

13-6-2

1 0-Б 0 9

1 0-Б 0 9

13-6-3

1 .

2 . 1 9 5 3

3 .

4 .

13-6-4

: 1

2

3

13-6-5

1 0-Б 0 9

1 0-Б 0 9

13-6-6

1

—

2

—

3

3

1

2

3

3

13-7

2 0 1 52

2 0 1 67 1 9

13-7-1

1 9 7 78

2 0 0 5

1 9 9 18 1

2 0 1 52

13-7-2

2 051 8 1

13-7-3

/ /

13-7-4

2 0 1 78 1

(KPI)

1 0 1 8 1

1 0 2

1 0 3

C h i n e s e L a n g u a g e

1 0 3

1 0 4

1 0 5

(

)

K

1 6

()

7

(K P I)

1-1

()

()

()
()
()
()
()
()

()
()
()
()
()

()
()
()

()

1 (

/

i-t u n e)

2

(5 5 0)

T O E I C

	105	106	107	108	109	
	7 0 0	8 0 0	8 5 0	9 0 0	9 5 0	
	4 0 0	4 5 0	5 0 0	5 5 0	6 0 0	

3

1

M o o d l e

T r o n c l a s s

2

E

	105	106	107	108	109	
	510	530	550	570	600	

1

2

3

	105	106	107	108	109	
	2 5	2 6	2 7	2 8	2 9	
	1 3	1 4	1 5	1 6	1 7	

1

2

9 2

7

(1 . 5)

=

÷

× 1 . 5

3

4

4

5

4

5

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1 0	1 0	1 2	1 2	1 4	
	9 0	1 0 0	1 1 0	1 2 0	1 3 0	
	3	5	7	9	9	
	2 0	3 0	4 0	5 0	5 0	

	105	106	107	108	109	
	-	800	1000	1200	1200	
	-	20	25	30	30	

1

(1)

(2)

2

(1)

(2)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	7 5 %	7 7 %	8 0 %	8 2 %	8 5 %	
	1 . 5 0	1 . 4 7	1 . 4 4	1 . 4 1	1 . 3 8	< 3 . 5

1

2

3

4

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	9	1 1	1 3	1 5	1 7	
	1	2	2	2	2	

()
Z U M B A

1 2 1

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	7 7 4	8 0 0	8 0 0	8 5 0	8 5 0	
()	1	4	4	4	4	
()	1	1	1	1	1	

()

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	7 8	8 0	8 0	8 0	8 0	

1

2

3

4

5

1 0 4

(2)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	1	1	1	1	1	

5

2

5

TA

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	4	4	5	5	6	
()	20	20	22	22	24	
()	1	1	1	1	1	

1

2

3

4

1

(1)

(2)

(3)

(4)

2

(1)

(2)

(3)

() ()

()

()

()

1

5

1 , 3 0 0

2

2

1

8 0 %

3

1

5 0

8 0 %

4

(1)

(2)

(3)

(I S P)

5

(1)

(2)

(3)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	5 1 3 0 0	5 / 1 3	5 / 1 3	5 / 1 3	5 / 1 3	
	1 / 8 0	1 / 8 0	1 / 8 0	1 / 8 0	1 / 8 0	
	2 / 1 0 0	2 / 1 0 0	2 / 1 0 0	2 / 1 0 0	2 / 1 0 0	
(/)	1 0 0 0	1 0 0 0	1 0 0 0	1 0 0 0	1 0 0 0	
()	3	3	3	3	3	
()	100%	100%	100%	100%	100%	

1
2
(1)

(2)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	3 0	2 5	2 0	1 8	1 5	

1
(1)
A .

B.

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	8	8	8	8	8	
/	1 8 0 /	1 9 0 /	2 0 0 /	2 1 0 /	2 2 0 /	

2
(1)
A.

B.

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	1	1	2	2	2	

()
1
(1)

(2)

(3)

(4)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1 6 0	1 6 0	1 6 0	1 6 0	1 6 0	
	2	2	2	2	2	
	4 8 0 0	5 0 0 0	5 0 0 0	5 2 0 0	5 2 0 0	
/	8% / 4 0	8% / 4 0	8% / 4 0	8% / 4 0	8% / 4 0	
	2 0 0 0	2 0 0 0	2 0 0 0	2 0 0 0	2 0 0 0	

2
 (1)
 ()

(2)

(3)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	- -	2	2	2	2	
	- -	8 0	1 0 0	13 0	1 5 0	
	- -	3 5 0	3 5 0	3 5 0	3 5 0	

()

1

2

3

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	300	400	400	400	400	
/	1 6 0 /	1 6 0 /	1 6 0 /	1 6 0 /	1 6 0 /	
/	3 2 0 /	3 2 0 /	3 2 0 /	3 2 0 /	3 2 0 /	

1

2

3

4

5 1 0 9

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
/	3 0 / 3	3 0 / 3	3 0 /	3 0 /	3 0 /	1 0 4 1 0
/	-	-	-	-	1 2 0 /	
/	2 2 0 /	2 2 0 /	2 2 0 /	2 2 0 /	2 2 0 /	
/	3 6 0 /	3 6 0 /	3 6 0 /	3 6 0 /	1 5 4 0	

1 2 9 1 5

2 9 4

2

3

4

5

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	9 5 % /	9 5 % /	9 5 % /	9 5 % /	9 5 % /	

1-5

()

A P P

()

()

()

()

()

()

()

()

()

A P P ()

()

()

1

	105	106	107	108	109	
			/			
		/	/			

2

()

	105	106	107	108	109	
	1	1	1	1	1	
	--		- -		--	
	1	1	1	1	1	

1

(1) ()

(2)

(3)

		1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
		≤	≤	≤	≤	≤	
	E U I	< 9 9	< 9 9	< 9 9	< 9 9	< 9 9	
		≤0 %	≤0 %	≤0 %	≤0 %	≤0 %	
	()	-3 8,00 0					
() ()		2	2	2	2	2	
()		2	2	2	2	2	
()		1 /	1 /	1 /	1 /	1 /	
()		1 /	1 /	1 /	1 /	1 /	

2

(1)

L E D

A

4 0 0 3 0 1 5 0 1 0 3

7 0 3 0 5 5 1 0 3

L E D

B

2 5 0

7 0 L E D

C

4 0 0

2 5 0

3 5

1 8 0 L E D

3 5

D

(2)

(3)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
4 0 0 3 0 1 5 0 1 0 3 7 0 3 0 5 5 1 0 3 LED						
2 5 0 7 0 LED						
4 0 0 2 5 0 3 5 1 8 0 LED 3 5						

3

- (1)
- (2)
- (3)
- (4)

2 5

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	1 2	1 2	1 2	1 2	1 2	
() ()	2	2	2	2	2	

- 1
- 2
- 3

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	2 2 , 0 0	2 4 , 0 0	2 5 , 5	2 7 , 0	2 8 , 5	

- 1
- 2

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	2 0 5 , 6	2 0 6 , 2 5	2 0 6 , 9 0	2 0 7 , 5 5	2 0 8 , 2	1 0 3 2 0 4 , 9

- 1
- 2
- 3

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	4 0	4 0	4 0	4 0	4 0	
()	5 0,00 0	5 1,00 0	5 2,00 0	5 3,00 0	5 4,00 0	/

- 1
- ()
- 2
- 3

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
(/)	5 6 .	5 7 . 5	5 8 . 5	5 9 . 5	6 0 . 5	: /

- 1
- 9 8
- 1 0 4

2

e

e

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1 .	1 .	1 .	1 .	1 .	
	2 .	2 .	2 .	2 .	2 .	
	3 .	3 .	3 .	3 .	3 .	

1

2

(1) T h i n C l i e n } (

(2)

3

	105	106	107	108	109	
()	3	3	3	3	3	

A P P

- 1
- A P P
- 2
- 3
- 4

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
A P P						

- 1
-
- 2
-
- 3
-

1-6

()

()

1

°

2

3

5

4

5

1

2

3

4

1

2

3

3

3

3

1

2

3

4

6

6

1 4

5

6

(6

)

1 0 8

6

1

2

3

1

2

3

()

()

()

()

()

()()

1

(1)

(2)

2

(1)

(2)

3

(1)

(2)

()

()

()

()

1

(1)

(2)

(3)

(4)

(5)

(

)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1 7 . 5	1 8	1 8 . 5	1 9	2 0	
/ (/)	5 5 0 / 3	5 5 0 / 3	5 5 0 / 3	5 5 0 / 3	5 5 0 / 3	
()	4 0	3 5	3 0	3 0	3 0	

2

(1)

(2)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
(/)	1 0 / 2	1 0 / 2	1 0 / 2	1 0 / 2	1 0 / 2	

3

(1)

(2)

(3)

Y a h o o

Y o u T u b e

(4)

(5)

(6)

(7)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	3 0	3 0	3 5	3 5	4 0	

4

(1)

(2)

3 + 1 3

1

(3)

(4)

(5)

(6

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	1 0	1 0	1 0	1 0	1 0	

1

I

II

2

1 2

3

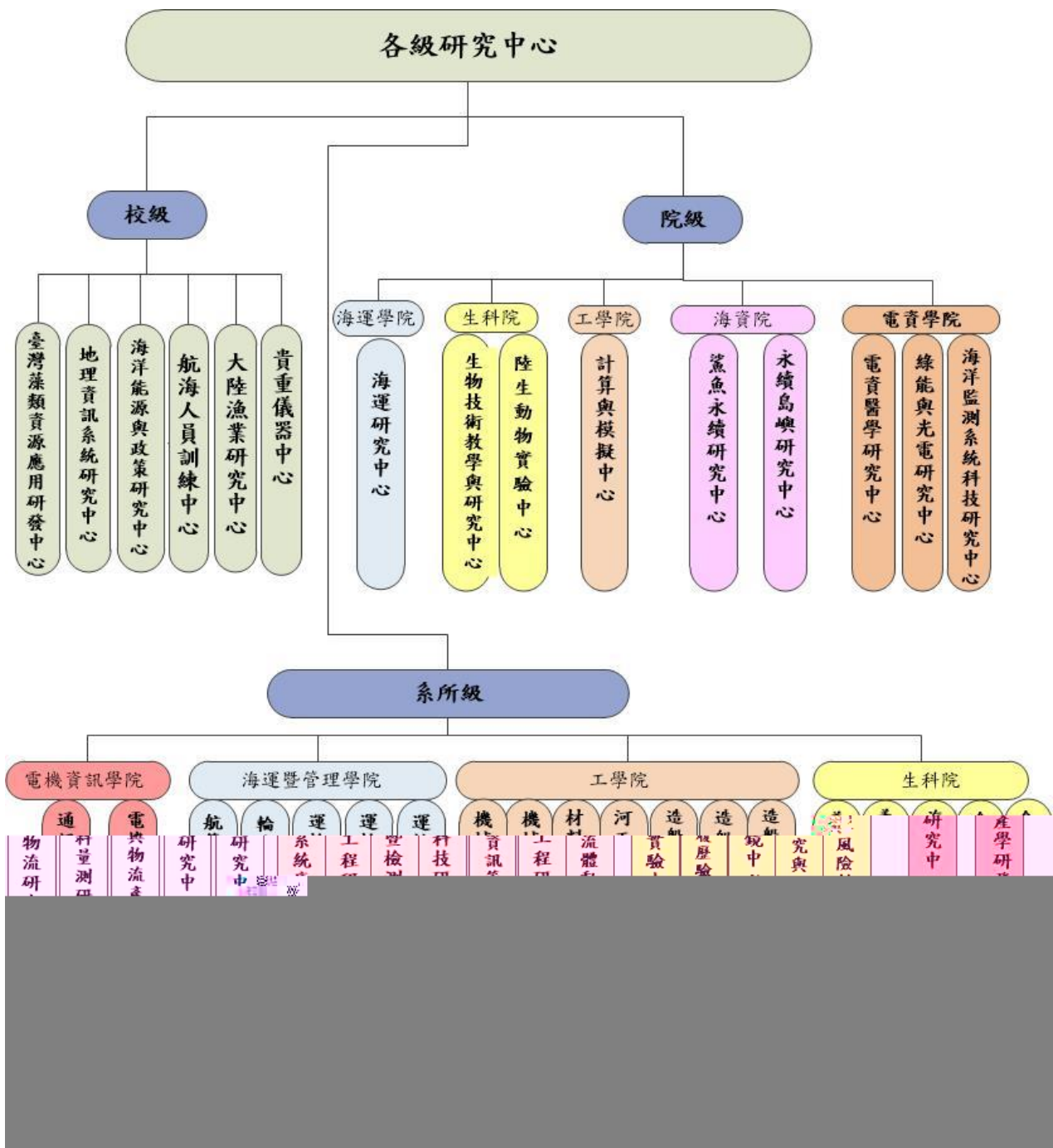
	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	7 0	7 5	8 0	8 5	9 0	
	3 5	3 5	3 5	3 5	3 5	

1

2

()

						(1)
(2)	(3)	(4)	(5)	(6)	(7)	
(8)	(9)	(1 0)		(1 1)	(12)	
(3)	(4)	(5)				



1 9 9 3 ()

3 9 8

2 9 5

2 5

8

	105	106	107	108	109	
(%)	>70%	>75%	>76%	>78%	>80%	

	105	106	107	108	109	
()	700	720	740	760	780	

	105	106	107	108	109	
	100	110	120	130	140	

9 8 2

1 0 5 2 6

(9-180 5)

9 81 0

1

2

1 0 1 1 6

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	2	2	2	2	2	

1

2

3

4

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1	1	1	1	1	
(	1	1	1	1	1	
	0	0	1	0	0	3 1
	1	1	1	1	1	
	0	0	1	1	1	

()

—

1 0 4

1 0 5

(

()

3

)

1 0 6

()

()

()

()

()

()

()

()

()()

()()

()

()

/

(c w o r k i n g s p a c e)

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	8	1 0	1 2	1 4	1 6	

1

Ma k e r S p a c e

Σ

1 0 5 1 2

...

2

(S C I)

/

(E P S) S t a n f o r d

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	1	1	1	1	1	
	1 0 5	1 1 5	1 2 5	1 3 5	1 4 5	

1

1 0 2 5

2

/

1 0 21 0 3

-

3

()

()

()

()

1 0-11 0 4

1 1

4 8

()

()

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	1 6	1 7	1 8	1 9	2 0	

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	2	3	4	5	6	

1

2

2 0 0

1 0

3

(2)

4

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1 , 0 0	1 , 0 5	1 , 1 0	1 , 1 5	1 , 2 0	
	2 5	3 0	3 5	4 0	4 5	

1

1 0 3

2

1 6

5

4

2 0

6 0

1 0 4

2

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	3	3	6	9	9	
	9 7	1 0 0	1 0 2	1 0 8	1 1 1	

1

2

3

U S T A R T

	105	106	107	108	109	
	25	28	30	33	35	
	1	1	2	2	2	
(/)	65/580	64/532	66/540	70/543	72/555	

	105	106	107	108	109	
	1	1	2	2	2	
	2	2	3	3	3	
	1	1	2	2	2	
	5	5	8	8	8	

()

()()

()

()

()

()()

()

()

()

()

()

1

2

3

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	3 1	3 2	3 3	3 4	3 5	
	1 0 / 1 , 7	1 1 / 1 , 7	1 2 / 1 , 8	1 3 / 1 , 8	1 4 / 1 , 9	
	4 0	4 0	4 0	4 0	4 1	

()

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	25	25	25	25	25	

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	120	12 0	12 2	12 2	1 2	

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1 6	1 7	1 8	1 9	2 0	

1

2 0 0 1 0

2

3

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	4 6 5	50 5	5 4	58 7	6 3 0	

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1 0	1 2	1 4	1 6	1 8	
	6	8	1 0	1 2	1 4	

()

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	1	1	2	2	3	

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	2	2	3	3	3	
	4	4	5	5	6	

1

2

3

4

F a c e b o o k

F a c e b o o k

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	9 0	9 3	9 5	9 7	1 0 0	
	2 3	2 3	2 9	2 9	3 0	
	40	40	45	45	45	

1

2

3

4

5

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
()	3 1	3 1	3 1	3 1	3 1	
()	2 0	2 0	2 2	2 2	2 4	
()	3 0	3 3	3 6	3 9	4 2	

1 0 2

8 0

	1 0 5	1 0 6	1 0 7	1 0 8	1 0 9	
	80	80	80	80	80	

1 :

2 :

3

4

5

7

I C D F

	1 0	1 0	1 0	1 0	1 0	
	1	1	2	2	3	
	1	1	2	2	3	
	32	33	33	34	34	

P D C A

32

1 0-5 0 9

~

K P I

P (P l a n)

D (D o)

C (C h e c k)

7

(K P I)

K P I

7 0 %

A (A c t)

P D C A

1		1-1	/ (/)	
		1-2	()	
		1-3	()	
		1-4-1	()	
		1-4-2	()	
		1-5-1	()	
		1-5-2	()	
		1-6	/	
		1-7	()	
		1-8		
2		2-1		
		2-2		
		2-3	()	
		2-4	()	
		2-5-1	()	
		2-5-2	()	
		2-6		
		2-7	()	
		2-8		
		2-9		
3		3-1		
		3-2		
		3-3		
		3-4	(/)	
		3-5		
		3-6	(/)	

()

4		4-1	S C I / S S C I / T S S C I / T H C I C o r e	
		4-2	S C I / S S C I / T S S C I / T H C I C o r e	
		4-3	/	
		4-4		
5		5-1	()	
		5-2	-	
		5-3		
		5-4		
		5-5		

1 0-5 0 9

$$(\quad)$$
" "

1 0-5 0 9

$$\left(\begin{array}{c} \\ \end{array} \right) \left(\begin{array}{c} \\ \end{array} \right)$$
[illegible]

1 0-5 0 9

()

					105					106					107					108					109									
1		1-1-1	/ (/)		—	—	—	—	—	—	—	—	—	—	30/28	0	50/31	100/51	35/15	215/125	35/28	0	50/31	100/51	35/15	220/125	35/28	0	50/31	110/51	35/15	230/125		
		1-1-2	/ (/)		5/2	0	10/5	40/20	35/15	90/42	5/2	0	10/5	50/25	35/15	100/47	5/2	0	25/12	40/20	37/16	107/50	6/3	0	25/12	40/20	38/16	109/51	6/3	6/3	25/12	50/25	38/18	125/61
		1-2	()		0	0	0	0	0	0	0	0	0	0	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		1-3	()		0	0	1	5	3	9	0	1	1	5	3	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		1-4-1	()		0	0	0	0	0	0	0	0	0	2	0	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		1-4-2	()		0	0	3	1	1	5	0	0	3	1	1	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		1-5-1	()		0	0	0	1	0	1	0	0	0	1	0	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		1-5-2	()		0	0	0	0	0	0	0	0	0	0	0	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		1-6	/		1/15	0	1/20	1/20	1/15	4/70	1/15	0	1/20	1/20	1/15	4/70	1/16	1/16	1/20	1/20	1/15	5/87	1/16	1/20	1/20	1/20	1/15	5/91	1/16	1/20	1/20	1/20	1/15	5/91
		1-7	()		0	0	2	3	2	7	0	1	2	3	2	8	0	1	3	4	2	10	0	2	3	4	2	11	0	1	3	4	2	10
	1-8			0	1	2	2	2	7	0	1	2	2	2	7	0	1	2	2	2	7	0	1	2	2	2	7	0	1	2	2	2	7	
2		2-1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2-2			3	0	0	0	0	3	3	0	0	0	0	3	3	0	0	0	0	3	3	0	0	0	3	4	0	0	0	0	4	
		2-3	()		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1		
		2-4	()		1	0	0	5	3	9	1	0	0	5	3	9	1	0	2	5	3	11	1	0	2	5	3	11	1	1	2	5	3	12
		2-5-1	()		0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	1	2
		2-5-2	()		0	0	0	2	0	2	0	0	0	2	0	2	0	0	3	2	0	5	0	0	3	2	0	5	0	0	3	2	1	6
		2-6			0	0	1	5	1	7	0	0	1	5	1	7	0	0	2	5	1	8	0	0	2	5	1	8	0	1	2	6	2	11
		2-7	()		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		2-8			4	3	10	10	4	31	4	4	10	12	4	34	4	5	41	10	4	64	4	6	41	10	4	65	4	6	41	12	4	67
		2-9			4	3	5	6	2	20	4	4	5	8	2	23	4	5	25	8	2	44	4	6	25	8	2	45	4	6	25	8	2	45
3		3-1			0	0	2	3	1	6	0	0	2	3	1	6	0	0	3	3	1	7	0	0	3	3	1	7	0	0	3	3	1	7
		3-2			0	0	5	10	2	17	0	0	5	10	2	17	0	0	13	10	2	25	0	1	13	10	2	26	0	2	13	10	2	27
		3-3			1	0	1	1	1	4	1	0	1	1	1	4	1	0	5	1	1	8	1	0	5	1	1	8	1	0	5	1	1	8
		3-4	(/)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3-5			0	0	0	1	1	2	0	0	0	1	1	2	0	0	0	1	1	2	0	0	0	1	1	2	0	0	0	1	1	2
		3-6	(/)		1/4	0	1/3	5/10	1/4	8/21	1/4	0	1/3	5/10	1/4	8/21	1/4	1/2	1/10	5/10	1/3	9/29	1/4	1/2	1/10	5/10	1/4	9/30	1/4	1/3	1/10	5/10	1/3	9/30
4		4-1	SCI/SSCI/TSSCI/THCI Core/EI		20	0	15	25	16	76	20	0	15	25	18	78	32	0	15	25	16	88	32	0	15	25	17	89	32	0	15	25	17	89
		4-2	SCI/SSCI/TSSCI/THCI Core/EI		200	0	150	390	350	1090	210	0	150	400	370	1130	4700	0	1000	1000	4500	11200	4800	0	1000	1100	4500	11400	5000	0	1000	1200	4500	11700
		4-3	/		8 1000 /0	0	10 600 / 1 50	15 800 /0	10 900 /0	43 3300 /1 50	8 1000 /0	0	10 600 / 1 50	15 800 /0	10 900 /0	43 3300 /1 50	8 1100 /1 80	0	22 1985 / 13 1005	15 800 /0	10 900 /0	55 4785 /14 1085	8 1100 /1 80	0	22 1985 / 13 1005	15 800 /0	10 900 /0	55 4785 /14 1085	8 1100 /1 80	0	22 1985 / 13 1005	16 900 /0	10 900 /0	56 4885 /14 1085
		4-4			2/0	0	0	0	0	2/0	2/0	0	0	0	1/0	3/0	2/0	0	0	0	0/0	2/0	2/0	0	0	0	0/0	2/0	2/0	0	0	0	0/0	2/0

” — ”

				105								106								107								108								109													
1	1-1-1	/ (/)		—	—	—	—	—	—	—	—	—	—	—	—	12/10	30/15	—	8/8	12/6	0/0	0/0	62/39	12/10	30/15	—	8/8	11/6	0/0	0/0	61/39	12/10	30/15	—	8/8	10/6	0/0	0/0	60/39										
	1-1-2	/ (/)		3/2	4/2	—	1/1	1/0	—	9/5	3/2	4/2	—	1/1	1/0	—	9/5	0/0	5/2	—	1/1	0/0	—	—	6/3	1/1	5/2	—	1/1	0/0	—	—	7/4	1/1	5/2	—	1/1	0/0	—	—	7/3								
	1-2	()		—	—	—	—	1	1	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	1-3	()		0	0	—	0	0	0	0	0	0	—	0	0	0	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	1-4-1	()		0	0	—	0	0	0	0	0	0	—	0	0	0	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	1-4-2	()		1/1	1	—	2	1	0	6	1/1	2	—	1	1	0	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	1-5-1	()		1/0	2	—	0	1	0	4	1/0	2	—	0	1	0	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	1-5-2	()		0/0	0	—	0	0	0	0	0/0	0	—	0	0	0	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	1-6	/		1/40	0	1/30	1/15	1/15	4/100	1/40	0	1/15	0	1/15	3/70	1/30	1/8	1/10	0	1/15	1/10	5/63	1/30	1/8	1/10	0	1/15	1/10	5/73	1/30	1/8	1/10	0	1/15	1/10	5/73	1/30	1/8	1/10	0	1/15	1/10	5/73						
	1-7	()		—	1	—	—	—	1	2	—	1	—	—	—	1	2	—	1	—	—	—	1	1	3	—	1	—	—	—	1	1	3	—	1	—	—	—	1	1	3								
1-8			0	1	—	1	1	1	4	0	1	—	1	1	1	4	0	1	—	1	1	1	1	5	0	1	—	1	1	1	1	5	0	1	—	1	1	1	1	5									
2	2-1			1	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2-2			1	0	0	1	0	2	1	0	0	1	0	2	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1			
	2-3	) (		0	1	1	0	0	0	2	0	1	1	0	0	0	2	0	0	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2-4	()		0	1	—	0	0	0	1	0	1	—	1	0	0	2	0	3	—	0	0	0	0	3	0	3	—	0	0	0	0	3	0	3	—	0	0	0	0	3	0	3	—	0	0	0	0	3
	2-5-1	) (		0	0	—	0	0	0	0	0	0	—	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2-5-2	) (		0	0	—	0	0	0	0	0	0	—	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2-6			0	1	—	0	0	0	1	0	1	—	1	0	0	2	0	2	—	0	0	0	0	2	0	2	—	0	0	0	0	2	0	2	—	0	0	0	0	2	0	2	—	0	0	0	0	2
	2-7	) (		0	0	—	0	0	0	0	0	0	—	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2-8			2	2	—	0	2	1	7	2	2	—	0	2	1	7	2	1	—	0	2	5	5	15	2	1	—	0	2	5	5	15	2	1	—	0	2	5	5	15	2	1	—	0	2	5	5	15
	2-9			1	1	—	0	2	0	4	1	1	—	0	2	0	4	1	0	—	0	2	1	2	6	1	0	—	0	2	1	2	6	1	0	—	0	2	1	2	6	1	0	—	0	2	1	2	6
3	3-1			0	0	3	0	0	0	3	0	0	3	0	0	3	0	0	9	0	0	1	1	11	0	0	9	0	0	1	1	11	0	0	9	0	0	1	1	11	0	0	1	1	11				
	3-2			1	0	20	0	1	0	22	1	0	20	0	1	0	22	0	0	40	0	0	1	1	42	0	0	40	0	0	1	1	42	0	0	40	0	0	1	1	42	0	0	1	1	42			
	3-3			0	3	0	0	0	3	0	3	0	3	0	0	3	0	3	0	0	0	0	3	0	3	0	3	0	0	0	3	0	3	0	0	0	3	0	3	0	0	0	3	0	0	0	3		
	3-4	(/)		2/10	0	—	0	—	0	2/10	2/10	0	—	0	—	0	2/10	2/10	0	—	0	—	0	0	2/10	2/10	0	—	0	—	0	0	2/10	2/10	0	—	0	—	1/3	0	3/13								
	3-5			0	10	—	0	1	0	11	0	11	—	0	1	0	12	0	22	—	0	1	0	0	23	1	22	—	0	1	0	0	24	1	22	—	0	1	1	0	25								
	3-6	(/)		0	1/1	2/2	0	0	0	3/3	0	1/1	2/2	0	0	0	3/3	0	1/4	2/7	0	0	1/30	0	4/41	0	1/4	2/7	0	0	1/30	0	4/41	0	1/4	2/7	0	0	1/30	0	4/41								
4	4-1	SCI/SSCI/TSSCI/THCI Core/EI		2	2	—	1	1	—	6	2	2	—	1	2	—	7	2	5	1	2	1	0	11	2	5	1	2	1	0	11	2	5	1	2	1	0	11	2	5	1	2	1	0	11				
	4-2	SCI/SSCI/TSSCI/THCI Core/EI		146	32	—	30	—	—	208	146	32	—	—	40	—	218	146	310	—	50	20	0	526	146	310	—	60	20	0	536	146	310	—	70	20	0	546											
	4-3	/		3 150 / 2 100	4 120 / 2 40	5 100 / 3 60	2 110 / 1 25	—	14 480 / 8 225	3 150 / 2 100	4 120 / 2 40	4 100 / 3 60	2 110 / 1 40	—	13 480 / 8 240	3 150 / 2 100	5 960 / 2 190	2 60 / 1 20	2 110 / 1 40	1 20 / 20	1 20 / 20	14 1320 / 8 390	3 150 / 2 100	5 960 / 2 190	2 60 / 1 20	2 110 / 1 40	1 20 / 20	1 20 / 20	14 1320 / 8 390	3 150 / 2 100	5 960 / 2 190	2 60 / 1 20	2 110 / 1 40	1 20 / 20	1 20 / 20	14 1320 / 8 390													
	4-4			0	0	0	0	—	0	0	0	0	0	0	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

1 0-5 0 9

$$(\quad)$$

A 10x10 grid of dots on a light gray background. The dots are arranged in a pattern that forms a large 'X' shape, with the center dot at (5,5) and the dots extending to the edges of the grid. The dots are colored in a gradient from light blue to dark blue.

