

2022 38

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2022 3  
78

2022 3 31

"

"

"

+

"

+

"

"

"

" "

"

"

"

1.

"

+

"

"

2. " + " "

" + " "	" "	
		5
		3
		1

3. " +"  
2020 1

"

" "

4. " + " "

" + " "	" "	
		2.5
		1.5
		1
	/	0.8
		0.5

		0.2
--	--	-----

5.

" + " "	" "	
		A
		B
		C

6.

$$+g = 2$$

" + " " " " "

2

1

8.

9. Internati onal Geneti call y  
Engi neered Machi ne Competi ti on I GEM

10.

/			
	2	1	0.5
	0.8	0.5	0.2

3

4 6

1

2

1. T1 T2 A B

T1

10

5

T2

A

B

2.

B

3.

1

2

3

4

8

1.

/	T1	T2	A		B	
	3	2	0.8	0.4	0.4	0.2
	2	1	0.5	0.25	0.25	0.13
	1	0.5	0.2	0.1	0.1	0.05

2.

2

3

7

3.

4.





1

2022

1. " +"

2. " "

3. " "

4. ACM I CPC

5.

6.

7.

8.

9.

10.

11.

12.

13. " "

14.

15.

16.

17. -

18.

19. .

20.

21.

22. - RoboMaster RoboCon RoboTac

23.

24.

25.

26.

27.

28. "

"

29.

30.

31.

-

32.

33.

-

48.

49.

CULSC -

50.

51.

BI M

52.

-

53. "

"

54.

55.

56.

2021

1.

2.

3.

4.

5.

" "

6.

7.

8.

9.

10.

+

1.

2.

3.

- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

2

- 1.
- 2.
- 3.
- 4.
- 5.

A

A

B

B

B

6.

B

7.

"

"

B

3

T1

1.

2.

3.

4.

5.

6.

7.

T2

1.

A

1.

2.

B

1.

2.

3.

4.