

UNEXPLAINED COINCIDENCES FOR 132

BRIDGET TENNER, ANDERS CLAEISSON, AND HENNING ULFARSSON

ABSTRACT. The following coincidences are found by first applying the Shading Algorithm to get all coincidence classes on the pattern 132. Then for each class we pick (one of) the least shaded pattern(s) and compute the avoiding permutations of lengths $0, \dots, 10$. If two (or more) classes turn out to have the same avoiding permutations they are listed together below.

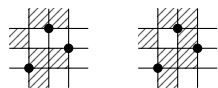
1. PARAMETERS USED BY THE SHADING ALGORITHM

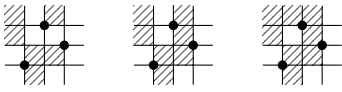
depth	multibox	q_check	forcelen	#united
-1	False	False	0	31323
1	False	False	1	0
1	False	False	2	0
1	False	False	3	0
1	False	True	1	274
1	False	True	2	0
1	False	True	3	0
1	True	False	1	0
1	True	False	2	200
1	True	False	3	28
1	True	True	1	22
1	True	True	2	50
1	True	True	3	18
2	False	False	1	20
2	False	False	2	44
2	False	False	3	0
2	False	True	1	30
2	False	True	2	0
2	False	True	3	0
2	True	False	1	0
2	True	False	2	16
2	True	False	3	26
2	True	True	1	23
2	True	True	2	3
2	True	True	3	0
3	False	False	1	34
3	False	False	2	0

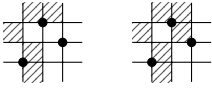
Key words and phrases. Permutation Patterns.

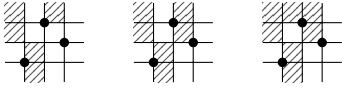
3	False	False	3	0
3	False	True	1	4
3	False	True	2	0
3	False	True	3	0
3	True	False	1	0
3	True	False	2	9
3	True	False	3	0
3	True	True	1	0
3	True	True	2	0
3	True	True	3	0
4	False	False	1	0
4	False	False	2	1
4	False	False	3	0
4	False	True	1	0
4	False	True	2	0
4	False	True	3	0
4	True	False	1	7
4	True	False	2	9
4	True	False	3	0
4	True	True	1	0
4	True	True	2	0
4	True	True	3	0
5	False	False	1	0
5	False	False	2	0
5	False	False	3	0
5	False	True	1	0
5	False	True	2	0
5	False	True	3	0
5	True	False	1	1
5	True	False	2	0
5	True	False	3	0
5	True	True	1	0
5	True	True	2	0
5	True	True	3	0
6	False	False	1	0
6	False	False	2	0
6	False	False	3	0
6	False	True	1	0
6	False	True	2	0
6	False	True	3	0

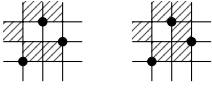
2. COINCIDENCES

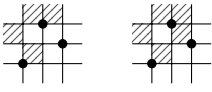
Coincidence 1 (1,1) 

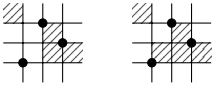
Coincidence 2 (2,1,1) 

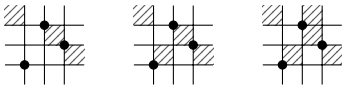
Coincidence 3 (1,1) 

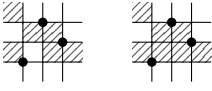
Coincidence 4 (2,1,1) 

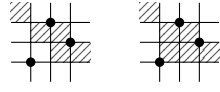
Coincidence 5 (1,1) 

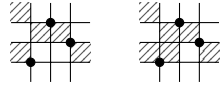
Coincidence 6 (1,1) 

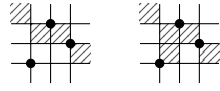
Coincidence 7 (4,4) 

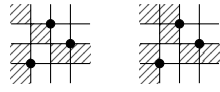
Coincidence 8 (4,2,2) 

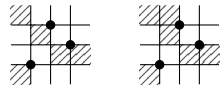
Coincidence 9 (1,1) 

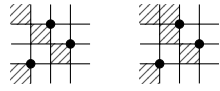
Coincidence 10 (1,1) 

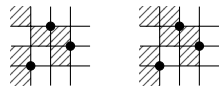
Coincidence 11 (1,1) 

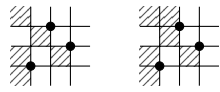
Coincidence 12 (1,1) 

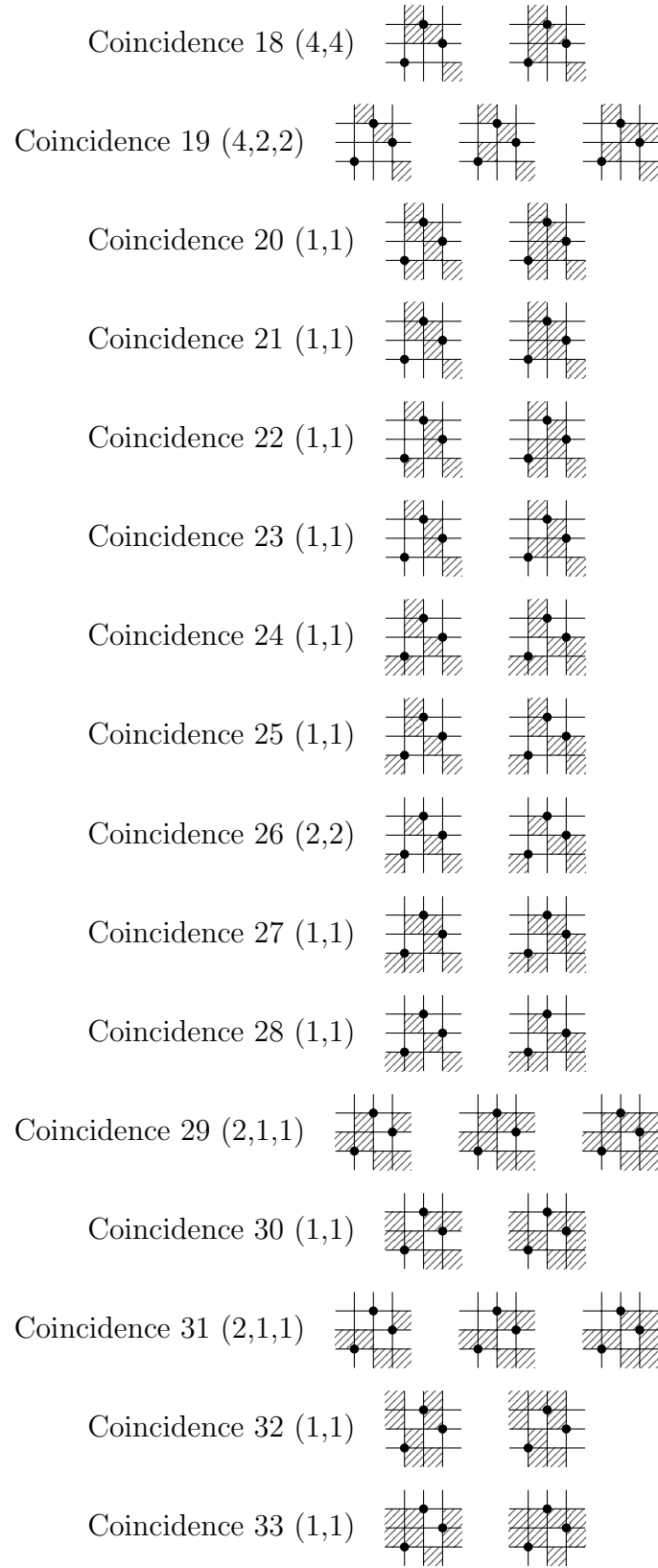
Coincidence 13 (1,1) 

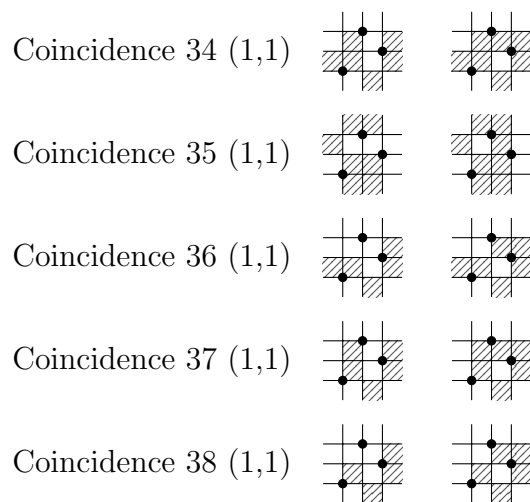
Coincidence 14 (1,1) 

Coincidence 15 (2,2) 

Coincidence 16 (1,1) 

Coincidence 17 (1,1) 





(Tenner) SCHOOL OF COMPUTER SCIENCE, REYKJAVÍK UNIVERSITY, MENNTAVEGI 1, 101 REYKJAVÍK, ICELAND

(Claesson) DEPARTMENT OF COMPUTER AND INFORMATION SCIENCES, UNIVERSITY OF STRATHCLYDE, GLASGOW G1 1XH, UK

(Ulfarsson) SCHOOL OF COMPUTER SCIENCE, REYKJAVÍK UNIVERSITY, MENNTAVEGI 1, 101 REYKJAVÍK, ICELAND

E-mail address: anders.claesson@cis.strath.ac.uk, henningu@ru.is