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A. Test Problems for Irregular Packing

A.1 Overview of Constructed Test Problems

Table A.1: Irregular test problems from literature: artificially created problems

name	size	problem type	shapes	object width
poly1a	15	artificial	polygons	40
poly2a	30	artificial	multiple of poly1a	40
poly3a	45	artificial	multiple of poly1a	40
poly4a	60	artificial	multiple of poly1a	40
poly5a	75	artificial	multiple of poly1a	40
poly2b	30	artificial	polygons	40
poly3b	45	artificial	polygons	40
poly4b	60	artificial	polygons	40
poly5b	75	artificial	polygons	40

A.2 Test Problems

name:	poly1a									
size:	15									
no										
1	x	0	10	8	4					
	y	0	2	5	4					
2	x	0	7	5						
	y	0	0	7						
3	x	0	3	7	4	1				
	y	1	0	2	5	3				
4	x	2	6	7	0					
	y	3	0	7	10					
5	x	0	10	13	12	5	1			
	y	0	1	3	5	7	5			
6	x	0	5	4	0					
	y	2	0	4	3					
7	x	4	6	0						
	y	0	7	4						
8	x	2	4	2	1	0				
	y	0	7	9	6	4				
9	x	0	6	8	3					
	y	0	0	2	7					
10	x	3	11	11	3	0				
	y	0	0	3	7	5				
11	x	1	8	4	7	0				
	y	0	0	3	6	5				
12	x	2	6	9	7	3	5	0		
	y	0	2	1	3	5	7	8		
13	x	0	3	9	4					
	y	6	0	0	2					
14	x	0	10	9	4	2				
	y	0	0	4	2	3				
15	x	0	5	7	8	2				
	y	3	0	2	4	5				

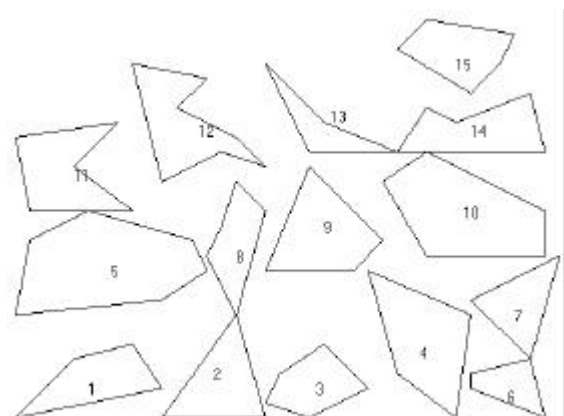


Figure A.1: Data set for test problem poly1a

name: poly2b
size: 30 consists of 15 polygons of problem poly1aN and 15 additional ones

no															
16	x	0	3	7	8	8	3								
	y	4	0	2	7	11	8								
17	x	0	4	7	9	5	0								
	y	4	4	0	6	6	7								
18	x	0	6	9	1										
	y	0	0	1	5										
19	x	0	3	7	11	12	1								
	y	1	0	3	3	8	5								
20	x	0	4	9	13	6	6	2							
	y	5	0	0	5	4	8	8							
21	x	0	4	7	8										
	y	3	0	0	5										
22	x	0	2	9	12	2									
	y	4	0	1	5	8									
23	x	0	3	11	10	2									
	y	8	4	0	7	10									
24	x	0	2	4	4	0									
	y	4	1	0	6	6									
25	x	0	2	3											
	y	7	0	8											
26	x	0	4	5	2										
	y	0	4	7	5										
27	x	0	5	4	2										
	y	0	0	5	7										
28	x	0	5	9	9	5									
	y	2	5	0	3	8									
29	x	0	3	7	9	7	5	3							
	y	2	0	0	3	6	2	2	3						
30	x	0	2	2	4	6	9	4							
	y	6	3	0	1	0	5	8							

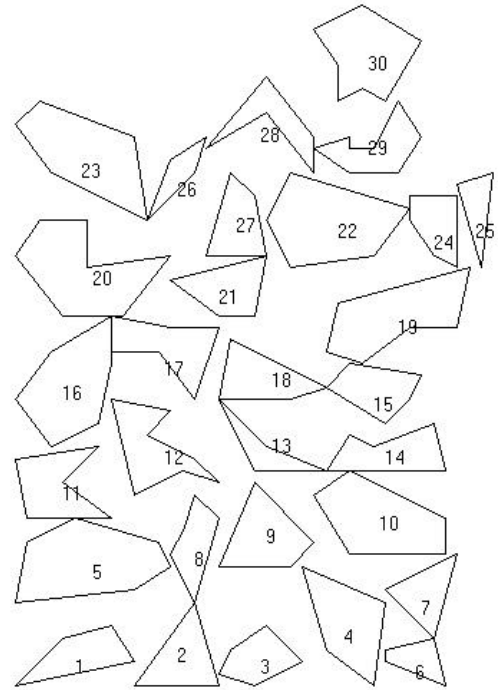


Figure A.2: Data set for test problem poly2b

name: poly3b
size: 45 consists of 30 polygons of problem poly2bN and 15 additional ones

no															
31	x	0	6	5	7	3	1								
	y	3	0	5	7	6	8								
32	x	0	3	0											
	y	0	3	4											
33	x	0	13	2											
	y	0	2	4											
34	x	0	6	8	5	1									
	y	0	0	2	6	4									
35	x	0	3	7	5	1									
	y	1	0	0	3	3									
36	x	0	4	6	5	0									
	y	3	2	0	4	6									
37	x	0	3	7	9	7	2								
	y	3	0	1	3	5	5								
38	x	0	2	2	3	3	0								
	y	3	1	0	0	4	4								
39	x	0	3	3	0										
	y	0	1	2	2										
40	x	0	5	5	8	10	6	2							
	y	3	2	1	0	2	6	7							
41	x	0	7	9	0										
	y	0	2	5	4										
42	x	0	4	5	9	9	4								
	y	4	3	0	2	6	8								
43	x	0	3	2	0										
	y	0	2	7	6										
44	x	1	3	4	0										
	y	0	0	4	3										
45	x	0	2	4	7	4	2								
	y	7	0	3	4	7	8								

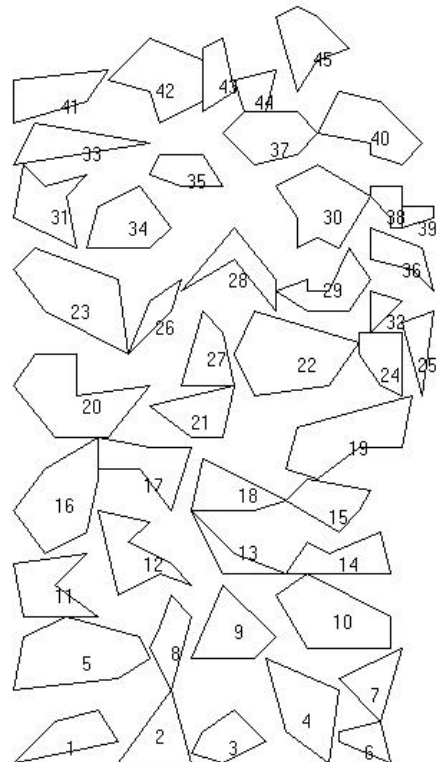


Figure A.3: Data set for test problem poly3b

name: poly4b
size: 60 consists of 45 polygons of problem poly3bN and 15 additional ones

no										
46	x	0	6	6	4					
	y	6	0	5	9					
47	x	0	10	11	7	2				
	y	1	0	2	5	6				
48	x	0	2	4	5	5				
	y	3	0	0	3	4				
49	x	2	3	2	0					
	y	0	3	7	4					
50	x	2	3	2	3	0				
	y	0	2	6	13	7				
51	x	0	2	4	3	0				
	y	0	0	5	8	5				
52	x	0	1	6	6	1				
	y	4	0	4	6	8				
53	x	0	2	5	4	2	2			
	y	4	0	3	7	8	5			
54	x	0	2	4	2					
	y	6	0	4	8					
55	x	0	3	6	5	2	2			
	y	1	0	0	5	6	3			
56	x	0	7	11	6	3				
	y	0	1	3	6	7				
57	x	0	7	1	3					
	y	0	0	4	1					
58	x	0	4	7	11	9	5	1		
	y	3	0	2	2	5	4	5		
59	x	0	3	6	4	1				
	y	5	0	3	6	8				
60	x	0	3	3	2					
	y	2	0	3	4					

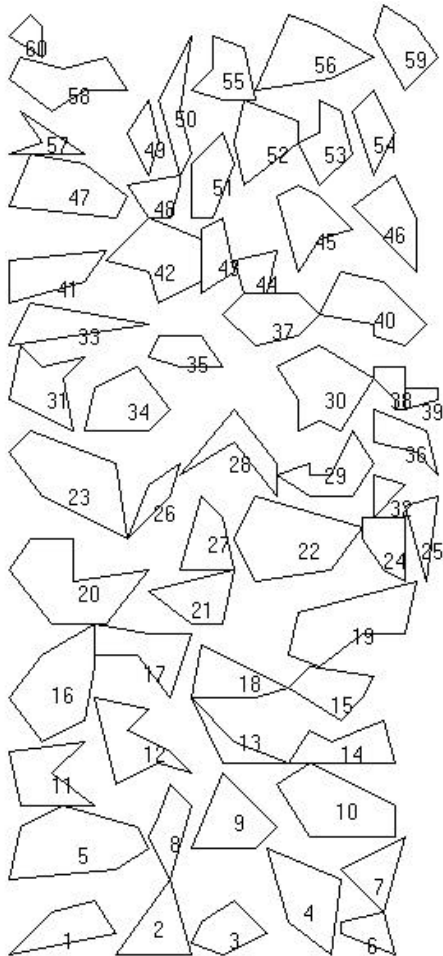


Figure A.4: Data set for test problem poly4b

name: poly5b
size: 75 consists of 60 polygons of problem poly4bN and 15 additional ones

no										
61	x	1	8	3	0					
	y	0	2	3	7					
62	x	0	5	3	4	2	0			
	y	1	0	2	5	6	3			
63	x	0	5	8	2					
	y	3	0	1	7					
64	x	0	10	3						
	y	0	1	2						
65	x	1	4	6	5	0				
	y	2	0	1	4	7				
66	x	0	4	5	2					
	y	2	0	3	6					
67	x	0	2	9	3					
	y	4	0	5	6					
68	x	0	1	9	10	5				
	y	5	0	1	3	3				
69	x	0	1	8	4					
	y	5	0	1	4					
70	x	0	1	5	2					
	y	3	0	1	2					
71	x	0	6	5	2	0				
	y	0	2	5	7	7				
72	x	0	2	4	2					
	y	6	0	4	3					
73	x	0	5	7	4	5	2			
	y	2	0	1	4	6	5			
74	x	0	1	6	10	2				
	y	3	1	0	3	6				
75	x	0	3	6	5					
	y	1	0	2	5					

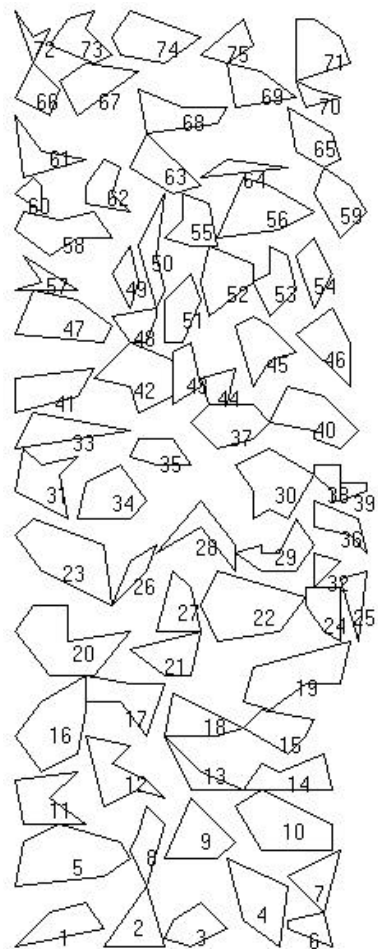


Figure A.5: Data set for test problem poly5b