

Test Problems for Irregular Packing: FU

Description of table entries:

reference: publication in which test problem has been used
name: name which the problem is referred to in this work
size: number of items
shapes: geometric shape type which the problem consists of
source: source where the co-ordinates used for the experiments in this work have been obtained from; i.e. supplied by authors, stated in publication, extracted from sample layout in publication or extracted from scanned sample layout in publication
factor: scaling factor between problem instance used in the current work and the problem used in the publication; only stated if dimensions are used in publication

Table: Irregular test problems from literature: artificially created problems

reference	name	size	problem type	shapes	source	factor
Fujita et al. (1993)	Fu	12	artificial	convex polygons	scanned from sample layout in paper	

name:	Fu				
size:	12				
object:	width: 38				
no.					
1	x	0	10	10	0
	y	0	0	10	10
2	x	0	10	10	0
	y	0	0	10	10
3	x	0	14	14	0
	y	0	0	9	9
4	x	0	14	7	
	y	0	0	7	
5	x	0	0	14	
	y	9	0	9	
6	x	0	14	14	0
	y	0	0	14	14
7	x	0	10	10	0
	y	0	4	9	9
8	x	0	5	5	0
	y	0	0	9	9
9	x	0	14	14	
	y	0	0	14	
10	x	0	10	10	0
	y	0	0	10	14
11	x	0	4	8	
	y	8	0	8	
12	x	0	14	7	
	y	0	0	12	

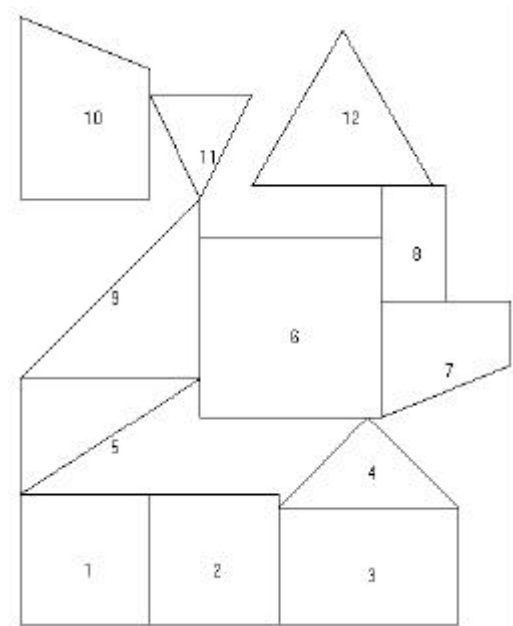


Figure: Data set for test problem Fu

References

Fujita, K., Akagji, S. and Kirokawa, N. 1993, Hybrid approach for optimal nesting using a genetic algorithm and a local minimisation algorithm. Proceedings of the 19th Annual ASME Design Automation Conference, Part 1 (of 2), Albuquerque, NM, USA, vol. 65, part 1, pp. 477-484.