

Test Problems for Irregular Packing: DAGLI

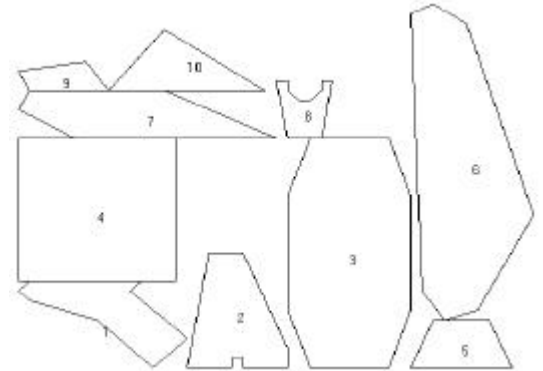
Description of table entries:

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

Irregular test problems from literature: textile industry

reference	name	size	problem type	shapes	source	factor
Ratanapan and Dagli (1997b)	Dagli	30	textile	polygons, non-polygonal pieces with arcs	scanned from sample layout in paper; approximated by polygons	

name:		Dagli	
size:		30	
object:		width:	
no.		60	
1	3	x	1 0 1 7 12 15 10 11 1
		y	1 8 7 5 0 3 8 9 9
2	3	x	2 2 0 4 4 5 5 9 9
		y	2 12 0 0 1 1 0 0 2
3	3	x	3 2 0 0 2 9 11 11 9
		y	3 24 18 6 0 0 6 18 24
4	3	x	4 0 0 14 14
		y	4 15 0 0 15
5	3	x	5 0 9 7 2
		y	5 0 0 5 5
6	3	x	6 0 1 3 6 11 5 2
		y	6 32 3 0 1 11 31 33
7	3	x	7 0 5 23 13 1
		y	7 3 0 0 5 5
8	3	x	8 1 4 5 4 4 3 2 1 1 0
		y	8 0 0 6 6 5 4 4 5 6 6
9	3	x	9 0 1 8 6
		y	9 2 0 0 3
10	3	x	10 0 14 5
		y	10 0 0 6.4



Data set for test problem Dagli

References

Ratanapan, K. and Dagli, C.H. 1997, An object-based evolutionary algorithm for solving irregular nesting problems. In: Proceedings for Artificial Neural Networks in Engineering Conference (ANNIE'97), vol.7, ASME Press, New York, pp. 383-388.