

Test Problems for Irregular Packing: ALBANO

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 A.1: Irregular test problems from literature: textile industry

reference	name	size	problem type	shapes	source	factor
Albano and Sappupo (1980)	Albano	24	textile	polygons, non-polygonal pieces with arcs	scanned from sample layout in paper; approximated by polygons	

name:		Albano															
size:		24															
object:		width: 4900															
no.	quantity																
1	2	x	0	966	1983	2185	2734	3000	2819	2819	3000	2734	2185	1983	966	0	
		y	86	142	0	238	217	767	900	1360	1493	2043	2022	2260	2118	2174	
2	2	x	0	3034	3034	0											
		y	0	0	261	261											
3	4	x	0	1761	2183	2183	1761	0									
		y	173	0	650	1010	1660	1487									
4	4	x	74	870	1666	1740	870	0									
		y	0	119	0	125	305	125									
5	4	x	0	411	800	1189	1600	1500	800	100							
		y	0	65	0	65	0	368	286	368							
6	4	x	0	936	936	0											
		y	0	0	659	659											
7	2	x	56	1066	1891	2186	2573	2676	2594	0							
		y	73	143	0	288	241	926	1366	1366							
8	2	x	0	2499	2705	2622	2148	1920	1061	0							
		y	0	0	387	934	967	1152	1059	1125							

Figure: Data set for test problem: Albano

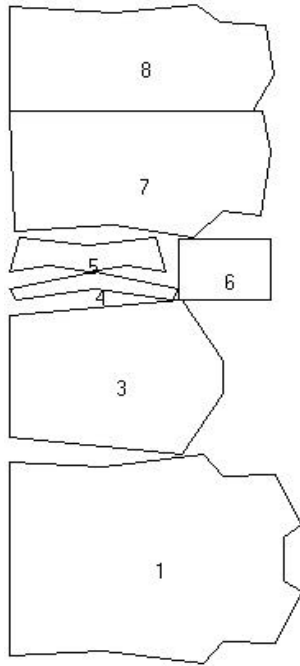


Figure: Problem: Albano

References

Albano, A. and Sappupo, G., 1980, Optimal allocation of two-dimensional irregular shapes using heuristic search methods. *IEEE Transactions on Systems, Man and Cybernetics*, SMC-10, 242-248.