Test Problems for Irregular Packing: MAO

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
Bounsaythip and Maouche (1997)	Mao	20	textile	polygons, non- polygonal pieces with arcs	scanned from sample layout in paper; approximated by polygons	5

name:		Mao																		
size:		20																		
object:		width:	2550																	
no.	quantity																			
1	2	X	10	478	727	856	930	1049	1097	1078	0									
		у	115	113	21	44	47	0	295	396	407									
2	2	X	0	316	316	0														
		У	0	2	274	275														
3	4	X	0	239	242	0														
		У	1	0	80	78														
4	2	Х	0	0	384	384	759	758												
		У	310	119	0	70	69	310												
5	2	Х	0	0	150	148														
		У	252	75	0	175														
6	2	Х	852	503	387	355	300	45	0	0	55	145	329	407	539	597	668	736	784	849
		У	412	414	451	505	451	325	221	154	53	16	25	35	38	51	20	0	3	194
7	2	X	0	827	894	975	1097	1003	884	845	761	732	694	616	539	0				
		У	232	0	20	258	260	500	463	453	490	547	544	477	414	426				
8	2	Х	151	97	0	75	126	191	271	316	359	436	442	694	726	1091	1094	1033	987	926
		У	427	266	259	28	21	61	50	64	10	6	43	75	42	0	211	208	346	393
9	2	X	0	745	619	590	522	6												
		У	0	24	196	276	260	282												

Data set for test problem Mao

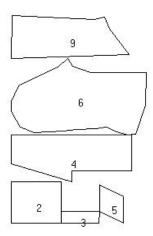


Figure: Problem: Mao

References

Bounsaythip, C. and Maouche, S. 1997, Irregular Shape Nesting and Placing with Evolutionary Approach, In: Proceedings of the IEEE International Conference On Systems, Man and Cybernetics, vol. 4, pp. 3425-3430.