

Yuriy Stoyan

List of Publications by Year in descending order

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40
papers

785
citations

393982

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500791

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40
all docs

40
docs citations

40
times ranked

287
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized packing unequal spheres into a multiconnected domain: mixed-integer non-linear programming approach. International Journal of Computer Mathematics: Computer Systems Theory, 2021, 6, 94-111.	0.7	5
2	Multistage Approach to Solving the Optimization Problem of Packing Nonconvex Polyhedra. Cybernetics and Systems Analysis, 2020, 56, 259-268.	0.4	1
3	Optimized packing multidimensional hyperspheres: a unified approach. Mathematical Biosciences and Engineering, 2020, 17, 6601-6630.	1.0	19
4	Optimized Packings in Space Engineering Applications: Part I. Springer Optimization and Its Applications, 2019, , 395-437.	0.6	21
5	Packing Unequal Spheres into Various Containers. Cybernetics and Systems Analysis, 2016, 52, 419-426.	0.4	23
6	Modeling Close Packing of 3D Objects. Cybernetics and Systems Analysis, 2016, 52, 296-304.	0.4	15
7	Cutting and packing problems for irregular objects with continuous rotations: mathematical modelling and non-linear optimization. Journal of the Operational Research Society, 2016, 67, 786-800.	2.1	41
8	Quasi-phi-functions and optimal packing of ellipses. Journal of Global Optimization, 2016, 65, 283-307.	1.1	62
9	Balance Layout Problems: Mathematical Modeling and Nonlinear Optimization. Springer Optimization and Its Applications, 2016, , 369-400.	0.6	16
10	Optimal clustering of a pair of irregular objects. Journal of Global Optimization, 2015, 61, 497-524.	1.1	30
11	Optimized Object Packings Using Quasi-Phi-Functions. Springer Optimization and Its Applications, 2015, , 265-293.	0.6	35
12	Covering a convex 3D polytope by a minimal number of congruent spheres. International Journal of Computer Mathematics, 2014, 91, 2010-2020.	1.0	9
13	Packing unequal circles into a strip of minimal length with a jump algorithm. Optimization Letters, 2014, 8, 949-970.	0.9	24
14	Optimization of 3D Objects Layout into a Multiply Connected Domain with Account for Shortest Distances. Cybernetics and Systems Analysis, 2014, 50, 374-385.	0.4	15
15	Packing congruent spheres into a multi-connected polyhedral domain. International Transactions in Operational Research, 2013, 20, 79-99.	1.8	13
16	Solving an optimization packing problem of circles and non-convex polygons with rotations into a multiply connected region. Journal of the Operational Research Society, 2012, 63, 379-391.	2.1	26
17	Mathematical modeling of the interaction of non-oriented convex polytopes. Cybernetics and Systems Analysis, 2012, 48, 837-845.	0.4	17
18	Packing equal circles into a circle with circular prohibited areas. International Journal of Computer Mathematics, 2012, 89, 1355-1369.	1.0	25

#	ARTICLE	IF	CITATIONS
19	Phi-Functions for 2D Objects Formed by Line Segments and Circular Arcs. Advances in Operations Research, 2012, 2012, 1-26.	0.2	27
20	Mathematical modeling of distance constraints on two-dimensional $\bar{\Gamma}$ -objects. Cybernetics and Systems Analysis, 2012, 48, 330-334.	0.4	2
21	Packing congruent hyperspheres into a hypersphere. Journal of Global Optimization, 2012, 52, 855-868.	1.1	19
22	Decomposition algorithm for geometric objects in 2D packing and cutting problems. Cybernetics and Systems Analysis, 2011, 47, 854-862.	0.4	0
23	Covering a polygonal region by $\hat{\Delta}$ rectangles. Computational Optimization and Applications, 2011, 48, 675-695.	0.9	24
24	Tools of $\hat{\Delta}$ mathematical modeling of $\hat{\Delta}$ arbitrary object packing problems. Annals of Operations Research, 2010, 179, 343-368.	2.6	56
25	Covering a compact polygonal set by identical circles. Computational Optimization and Applications, 2010, 46, 75-92.	0.9	30
26	Packing identical spheres into a cylinder. International Transactions in Operational Research, 2010, 17, 51-70.	1.8	14
27	Packing cylinders and rectangular parallelepipeds with distances between them into a given region. European Journal of Operational Research, 2009, 197, 446-455.	3.5	25
28	Mathematical Modeling of Interactions of Primary Geometric 3D Objects. Cybernetics and Systems Analysis, 2005, 41, 332-342.	0.4	28
29	Packing of convex polytopes into a parallelepiped. Optimization, 2005, 54, 215-235.	1.0	22
30	A mathematical model and a solution method for the problem of placing various-sized circles into a strip. European Journal of Operational Research, 2004, 156, 590-600.	3.5	64
31	A method of optimal lattice packing of congruent oriented polygons in the plane. European Journal of Operational Research, 2000, 124, 204-216.	3.5	9
32	Regular packing of congruent polygons on the rectangular sheet. European Journal of Operational Research, 1999, 113, 653-675.	3.5	6
33	Mathematical model and method of searching for a local extremum for the non-convex oriented polygons allocation problem. European Journal of Operational Research, 1996, 92, 193-210.	3.5	43
34	Quadratic optimization on combinatorial sets in R_n . Cybernetics and Systems Analysis, 1992, 27, 561-567.	0.4	12
35	Modeling of a granular medium by computer methods. Soviet Mining Science, 1989, 25, 101-106.	0.0	2
36	A basis of equivalence classes of paths in optimization problems. Cybernetics and Systems Analysis, 1983, 18, 459-463.	0.0	0

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37	Modelling of the space of paths in problems of constructing optimal trajectories. USSR Computational Mathematics and Mathematical Physics, 1983, 23, 50-55.	0.0	0
38	An approach to the problems of routing optimization in the regions of intricate shape. Information Processing Letters, 1981, 13, 39-43.	0.4	1
39	Rational load arrangement, in the frequency sense, on thin slabs. Soviet Applied Mechanics, 1980, 16, 229-233.	0.0	0
40	The minimization method for some permutation functionals. Information Processing Letters, 1979, 8, 110-111.	0.4	4