

# Tatiana Romanova

## List of Publications by Year in descending order

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55  
papers

1,032  
citations

331259

21  
h-index

433756

31  
g-index

56  
all docs

56  
docs citations

56  
times ranked

363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sparse layout of irregular 3D clusters. Journal of the Operational Research Society, 2023, 74, 351-361.	2.1	5
2	Optimized designing spherical void structures in 3D domains. , 2022, , 331-346.		0
3	Balanced Circular Packing Problems with Distance Constraints. Computation, 2022, 10, 113.	1.0	5
4	Optimized Filling of a Given Cuboid with Spherical Powders for Additive Manufacturing. Journal of the Operations Research Society of China, 2021, 9, 853-868.	0.9	27
5	Sparsest packing of two-dimensional objects. International Journal of Production Research, 2021, 59, 3900-3915.	4.9	18
6	Sparsest balanced packing of irregular 3D objects in a cylindrical container. European Journal of Operational Research, 2021, 291, 84-100.	3.5	20
7	Optimal layout of ellipses and its application for additive manufacturing. International Journal of Production Research, 2021, 59, 560-575.	4.9	31
8	Modeling Nanocomposites with Ellipsoidal and Conical Inclusions by Optimized Packing. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 201-210.	0.2	1
9	Amplification of Heat Transfer by Shock Waves for Thermal Energy Method. Lecture Notes in Networks and Systems, 2021, , 577-587.	0.5	8
10	Circular Layout in Thermal Deburring. Advances in Intelligent Systems and Computing, 2021, , 111-120.	0.5	8
11	Packing ellipses in an optimized rectangular container. Wireless Networks, 2020, 26, 4869-4879.	2.0	25
12	Packing Irregular Polygons using Quasi Phi-functions. , 2020, , .		0
13	Packing Oblique 3D Objects. Mathematics, 2020, 8, 1130.	1.1	12
14	Packing ellipsoids in an optimized cylinder. European Journal of Operational Research, 2020, 285, 429-443.	3.5	28
15	Balance Layout Problem with the Optimized Distances Between Objects. EAI/Springer Innovations in Communication and Computing, 2020, , 85-93.	0.9	6
16	An Optimized Covering Spheroids by Spheres. Applied Sciences (Switzerland), 2020, 10, 1846.	1.3	10
17	Lagrangian Approach to Modeling Placement Conditions in Optimized Packing Problems. Mobile Networks and Applications, 2020, 25, 2126-2133.	2.2	5
18	Decomposition Algorithm for Irregular Placement Problems. Advances in Intelligent Systems and Computing, 2020, , 214-221.	0.5	8

#	ARTICLE	IF	CITATIONS
19	Packing Convex 3D Objects with Special Geometric and Balancing Conditions. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 273-281.	0.5	5
20	Optimal Packing Problems: From Knapsack Problem to Open Dimension Problem. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 671-678.	0.5	5
21	Cutting Irregular Objects from the Rectangular Metal Sheet. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 150-157.	0.5	16
22	Optimized Packings in Analysis of 3D Nanocomposites with Inclusion Systems. , 2020, , .		2
23	Optimized packing multidimensional hyperspheres: a unified approach. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 6601-6630.	1.0	19
24	Optimized Layout of Spherical Objects in a Polyhedral Domain. <i>Cybernetics and Computer Technologies</i> , 2020, , 39-46.	0.0	0
25	Optimized Packing of Object Clusters with Balancing Conditions. <i>EAI/Springer Innovations in Communication and Computing</i> , 2020, , 95-108.	0.9	0
26	Packing ellipses in an optimized convex polygon. <i>Journal of Global Optimization</i> , 2019, 75, 495-522.	1.1	22
27	Balance Packing Problem of Cuboids in an Optimized Cylindrical Container. , 2019, , .		1
28	Optimized Packings in Space Engineering Applications: Part I. <i>Springer Optimization and Its Applications</i> , 2019, , 395-437.	0.6	21
29	Optimized Packing Clusters of Objects in a Rectangular Container. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-12.	0.6	8
30	3D Irregular Packing in an Optimized Cuboid Container. <i>IFAC-PapersOnLine</i> , 2019, 52, 2014-2019.	0.5	8
31	Optimal Packing in Additive Manufacturing. <i>IFAC-PapersOnLine</i> , 2019, 52, 2758-2763.	0.5	6
32	Parallel Computing Technologies for Solving Optimization Problems of Geometric Design. <i>Cybernetics and Systems Analysis</i> , 2019, 55, 894-904.	0.4	14
33	Packing of concave polyhedra with continuous rotations using nonlinear optimisation. <i>European Journal of Operational Research</i> , 2018, 268, 37-53.	3.5	56
34	Placement Problems for Irregular Objects: Mathematical Modeling, Optimization and Applications. <i>Springer Optimization and Its Applications</i> , 2017, , 521-559.	0.6	23
35	On the global minimum in a balanced circular packing problem. <i>Optimization Letters</i> , 2016, 10, 1347-1360.	0.9	35
36	Cutting and packing problems for irregular objects with continuous rotations: mathematical modelling and non-linear optimization. <i>Journal of the Operational Research Society</i> , 2016, 67, 786-800.	2.1	41

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37	Quasi-phi-functions and optimal packing of ellipses. Journal of Global Optimization, 2016, 65, 283-307.	1.1	62
38	Balance Layout Problems: Mathematical Modeling and Nonlinear Optimization. Springer Optimization and Its Applications, 2016, , 369-400.	0.6	16
39	Optimization of packing polyhedra in spherical and cylindrical containers. Eastern-European Journal of Enterprise Technologies, 2016, 1, 39.	0.3	4
40	Layout problems for arc objects in convex domains. Journal of Mechanical Engineering, 2016, 19, 43-60.	0.3	0
41	Balance Layout Problem for 3D-Objects: Mathematical Model and Solution Methods. Cybernetics and Systems Analysis, 2015, 51, 556-565.	0.4	27
42	Optimal clustering of a pair of irregular objects. Journal of Global Optimization, 2015, 61, 497-524.	1.1	30
43	Optimized Object Packings Using Quasi-Phi-Functions. Springer Optimization and Its Applications, 2015, , 265-293.	0.6	35
44	Mathematical Models of Placement Optimisation: Two- and Three-Dimensional Problems and Applications. Springer Optimization and Its Applications, 2012, , 363-388.	0.6	29
45	Phi-Functions for 2D Objects Formed by Line Segments and Circular Arcs. Advances in Operations Research, 2012, 2012, 1-26.	0.2	27
46	Mathematical modeling of distance constraints on two-dimensional $\hat{I}$ -objects. Cybernetics and Systems Analysis, 2012, 48, 330-334.	0.4	2
47	Double jeopardy--drug and sex risks among Russian women who inject drugs: initial feasibility and efficacy results of a small randomized controlled trial. Substance Abuse Treatment, Prevention, and Policy, 2012, 7, 1.	1.0	61
48	Covering a polygonal region by $\hat{A}$ rectangles. Computational Optimization and Applications, 2011, 48, 675-695.	0.9	24
49	Mathematical model and efficient algorithms for object packing problem. Computational Geometry: Theory and Applications, 2010, 43, 535-553.	0.3	118
50	Tools of $\hat{A}$ mathematical modeling of $\hat{A}$ arbitrary object packing problems. Annals of Operations Research, 2010, 179, 343-368.	2.6	56
51	Interval estimation of alternatives in decision-making problems. Cybernetics and Systems Analysis, 2009, 45, 253-262.	0.4	2
52	Modeling of Interaction of the n-D Spheres within Interval Spaces. Telecommunications and Radio Engineering (English Translation of <i>Élektrosvyaz and Radiotekhnika</i> ), 2007, 66, 273-281.	0.2	0
53	Mathematical Modeling of Interactions of Primary Geometric 3D Objects. Cybernetics and Systems Analysis, 2005, 41, 332-342.	0.4	28
54	Construction of a $\hat{I}$ -function for two convex polytopes. <i>Appl. Math. Comput.</i> , 2002, 29, 199-218.	0.1	8

#	ARTICLE	IF	CITATIONS
55	Knowledge representation in an automatic programming system and solution of Ek(R2) location problems. Cybernetics and Systems Analysis, 1992, 27, 661-669.	0.4	0