

# Karoly Jarmai

## List of Publications by Year in descending order

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119  
papers

906  
citations

623734

14  
h-index

580821

25  
g-index

143  
all docs

143  
docs citations

143  
times ranked

505  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fertilization optimization algorithm on CEC2015 and large scale problems. Pollack Periodica, 2022, 17, 24-29.	0.4	4
2	Modern Method to Analyze the Heat Transfer in a Symmetric Metallic Beam with Hole. Symmetry, 2022, 14, 769.	2.2	4
3	Comparison of optimized steel frame structures. Pollack Periodica, 2022, , .	0.4	0
4	An Investigation on the Features of Deformation and Residual Stress Generated by Patch Welding with Different Plate Sizes. Processes, 2022, 10, 1312.	2.8	1
5	Optimum Design of an Air Tank for Fatigue and Fire Load. Acta Polytechnica Hungarica, 2021, 18, 163-177.	2.9	3
6	Optimal Design of a Fiber-Reinforced Plastic Composite Sandwich Structure for the Base Plate of Aircraft Pallets In Order to Reduce Weight. Polymers, 2021, 13, 834.	4.5	17
7	Improving optimization using adaptive algorithms. Pollack Periodica, 2021, 16, 14-18.	0.4	2
8	Optimization of a Totally Fiber-Reinforced Plastic Composite Sandwich Construction of Helicopter Floor for Weight Saving, Fuel Saving and Higher Safety. Polymers, 2021, 13, 2735.	4.5	5
9	An Economical and Mechanical Investigation on Local Post-Weld Heat Treatment for Stiffened Steel Plates in Bridge Structures. Applied Mechanics, 2021, 2, 714-727.	1.5	4
10	Optimization of asymmetric I-beams for minimum welding shrinkage. Pollack Periodica, 2021, 16, 39-44.	0.4	0
11	A Box-Girder Design Using Metaheuristic Algorithms and Mathematical Test Functions for Comparison. Applied Mechanics, 2021, 2, 891-910.	1.5	1
12	Experimental Investigation of the Air-Side Heat Transfer Coefficient on Louver Finned Tube Automotive Radiator. Lecture Notes in Mechanical Engineering, 2021, , 401-416.	0.4	0
13	Optimum Design of Solar Sandwich Panels for Satellites Applications. Lecture Notes in Mechanical Engineering, 2021, , 427-442.	0.4	0
14	Optimization Algorithms for Inverse Kinematics of Robots with MATLAB Source Code. Lecture Notes in Mechanical Engineering, 2021, , 468-477.	0.4	0
15	Dynamic differential annealed optimization: New metaheuristic optimization algorithm for engineering applications. Applied Soft Computing Journal, 2020, 93, 106392.	7.2	82
16	Optimization for Robot Modelling with MATLAB. , 2020, , .		10
17	Optimization and comparison of different standards for compressed welded box columns. Pollack Periodica, 2020, 15, 3-14.	0.4	3
18	Investigation of welded protective covers for heat treatment. Pollack Periodica, 2020, 15, 15-26.	0.4	3

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19	Structural Optimization and Stiffness Analysis. , 2020, , 175-196.		0
20	Theoretical and Numerical Analysis of an Aluminum Foam Sandwich Structure. Pollack Periodica, 2020, 15, 113-124.	0.4	3
21	Investigation of the Warping Torsion of a Press Machine. Pollack Periodica, 2020, 15, 150-161.	0.4	0
22	CFD analysis and heat transfer characteristics of finned tube heat exchangers. Pollack Periodica, 2019, 14, 165-176.	0.4	14
23	Kinematic-based structural optimization of robots. Pollack Periodica, 2019, 14, 213-222.	0.4	9
24	Heat transfer analysis for finned tube heat exchangers. , 2019, , 56-66.		0
25	Analytical and numerical study for minimum weight sandwich structures. , 2019, , 3-11.		0
26	Investigating three learning algorithms of a neural networks during inverse kinematics of robots. , 2019, , 33-40.		0
27	Optimizing Heuristic Graph Formation with Application in Kinematic Synthesis of a Robot Arm with Revolute Joints. Journal of Engineering and Applied Sciences, 2019, 14, 1976-1984.	0.2	2
28	Cost Calculation of Thin-Walled Structures Using Different Manufacturing Techniques. Lecture Notes in Mechanical Engineering, 2018, , 624-638.	0.4	1
29	$\hat{\mu}$ -Optimum Reliability-Based Cost Design of Longitudinally Stiffened Welded Steel Plates. Lecture Notes in Mechanical Engineering, 2018, , 649-665.	0.4	1
30	Research and Application of Industrial Robot Manipulators in Vehicle and Automotive Engineering, a Survey. Lecture Notes in Mechanical Engineering, 2018, , 611-623.	0.4	5
31	Life Cycle Assessment of Welded Structures Using Cost Optimization. , 2018, , 2027-2043.		0
32	Theoretical and Parametric Investigation of an Automobile Radiator. Lecture Notes in Mechanical Engineering, 2017, , 27-37.	0.4	2
33	Vehicle and Automotive Engineering. Lecture Notes in Mechanical Engineering, 2017, , .	0.4	2
34	04.19: Cost comparison of welded cellular plated square box and cellular shell column structures. Ce/Papers, 2017, 1, 990-999.	0.3	0
35	Optimum design of welded structures. Rakenteiden Mekaniikka, 2017, 50, 326-329.	0.2	1
36	A new structural version of welded cellular cylindrical shell for a cantilever column. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 605-612.	2.5	1

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37	Optimum design of a cellular shell structure of a belt-conveyor bridge. , 2016, , .		0
38	Mathematical modeling of multiple tour multiple traveling salesman problem using evolutionary programming. Applied Mathematical Modelling, 2015, 39, 3410-3433.	4.2	35
39	Optimization of welded conical shells for axial compression and bending. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 401-406.	2.5	0
40	From a quasi-static fluid-based evolutionary topology optimization to a generalization of BESO. Engineering Optimization, 2015, 47, 689-705.	2.6	8
41	Optimization of a cylindrical shell housing a belt-conveyor bridge. Computers and Structures, 2015, 147, 159-164.	4.4	1
42	Cost savings using different post-welding treatments on an I-beam subject to fatigue load. Welding in the World, Le Soudage Dans Le Monde, 2014, 58, 691-698.	2.5	6
43	Comparison of rectangular and square box columns composed from cellular plates with welded and rolled stiffeners. Engineering Structures, 2014, 60, 199-205.	5.3	2
44	Optimization of welded square cellular plates with two different kinds of stiffeners. Journal of Constructional Steel Research, 2014, 101, 61-65.	3.9	3
45	Efficient algorithms for optimization of objects and systems. Pollack Periodica, 2014, 9, 121-132.	0.4	13
46	Optimum Design of Steel Structures. , 2013, , .		27
47	Beams and Columns. , 2013, , 43-59.		0
48	JÃ³zsef Farkas 85 Jahre. Stahlbau, 2013, 82, 874-874.	0.1	0
49	Reliability-Based Optimum Design of a Square Box Column Constructed from Cellular Plates. , 2013, , 69-75.		1
50	Volume and Cost Minimization of a Tubular Truss with Displacement-Constraint. Advances in Structural Engineering, 2012, 15, 1729-1737.	2.4	0
51	Minimum cost design of a cellular plate loaded by uniaxial compression. Structural and Multidisciplinary Optimization, 2012, 45, 835-843.	3.5	1
52	Eurosteel 2011. Steel Construction, 2011, 4, 131-131.	0.8	0
53	Minimum Cost Design for Fire Resistance of Welded Steel Structures. Journal of Structural Fire Engineering, 2010, 1, 101-114.	0.8	1
54	Global minimum cost design of a welded square stiffened plate supported at four corners. Structural and Multidisciplinary Optimization, 2010, 40, 477-489.	3.5	9

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55	Analysis of shells reinforced by massive stiffening ribs. International Applied Mechanics, 2008, 44, 1309-1318.	0.6	1
56	Cost Minimization of a Ring-Stiffened Conical Shell Loaded by External Pressure. Welding in the World, Le Soudage Dans Le Monde, 2008, 52, 110-115.	2.5	6
57	Seismic Resistant Design. , 2008, , 27-32.		0
58	Stiffened Plates. , 2008, , 111-165.		0
59	Frames. , 2008, , 57-110.		0
60	Square Box Column Composed from Welded Cellular Plates. , 2008, , 253-261.		0
61	Cost Calculations. , 2008, , 21-26.		0
62	Large-span Suspended Roof Members. , 2008, , 47-56.		0
63	Newer Mathematical Optimization Methods. , 2008, , 7-19.		0
64	Fire Resistant Design. , 2008, , 33-46.		1
65	Tubular Structures. , 2008, , 225-251.		3
66	Minimum Cost Design of a Square Box Column Composed from Orthogonally Stiffened Welded Steel Plates. , 2008, , 61-70.		12
67	Effects of Residual Stresses on Optimum Design of Stiffened Plates. , 2008, , 157-164.		0
68	Our Research Relating to the Minimum Cost Design of Welded Structures. , 2008, , 11-18.		0
69	Numerical Simulation of Buckling of Metal Tubes. , 2008, , 287-292.		1
70	Optimization of Steel Beams and Columns for Variable Rib Configuration. , 2008, , 113-118.		1
71	Design and Optimization of Metal Structures. , 2008, , .		21
72	Design, Fabrication and Economy of Welded Structures. , 2008, , .		2

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73	Optimization of an Orthogonally Stiffened Plate Considering Fatigue Constraints. , 2008, , 27-34.		1
74	Optimization of a Steel Frame for Fire Resistance with and without Protection. , 2008, , 79-88.		1
75	Welded Stiffened Cylindrical and Conical Shells. , 2008, , 167-223.		1
76	Optimal Design of a Composite Cellular Plate Structure. , 2008, , 127-134.		0
77	Special Cases of the Calculation of Residual Welding Distortions. Welding in the World, Le Soudage Dans Le Monde, 2007, 51, 69-73.	2.5	5
78	Economic Orthogonally Welded Stiffening of an Uniaxially Compressed Steel Plate. Welding in the World, Le Soudage Dans Le Monde, 2007, 51, 74-78.	2.5	17
79	Economic Orthogonally Welded Stiffening of an Uniaxially Compressed Steel Plate. Welding in the World, Le Soudage Dans Le Monde, 2007, 51, 80-84.	2.5	9
80	Single- and multiobjective optimization of a welded stringer-stiffened cylindrical shell. Periodica Polytechnica: Civil Engineering, 2007, 51, 11.	0.6	3
81	Optimisation of a steel tower for a wind turbine structure. Engineering Structures, 2007, 29, 1337-1342.	5.3	109
82	Optimum Design and Cost Comparison of a Welded Plate Stiffened on One Side and a Cellular Plate Both Loaded by Uniaxial Compression. Welding in the World, Le Soudage Dans Le Monde, 2006, 50, 45-51.	2.5	22
83	Optimization and reliability of large-span suspended members. , 2006, , 12.		13
84	Optimum seismic design of a multi-storey steel frame. Engineering Structures, 2006, 28, 1038-1048.	5.3	24
85	Optimum strengthening of a column-supported oil pipeline by a tubular truss. Journal of Constructional Steel Research, 2006, 62, 116-120.	3.9	5
86	Reliability-based optimum design of a welded stringer-stiffened steel cylindrical shell subject to axial compression and bending. Structural and Multidisciplinary Optimization, 2006, 31, 147-155.	3.5	11
87	Minimum cost design of a welded orthogonally stiffened cylindrical shell. Computers and Structures, 2006, 84, 787-797.	4.4	46
88	Optimal steel frame design for fire resistance. , 2006, , 782-782.		0
89	Minimum cost design of a welded stiffened square plate loaded by biaxial compression. Structural and Multidisciplinary Optimization, 2005, 29, 298-303.	3.5	11
90	Structural optimization as a harmony of design, fabrication and economy. Structural and Multidisciplinary Optimization, 2005, 30, 66-75.	3.5	6

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91	Optimum Design of a Welded Stringer-Stiffened Steel Cylindrical Shell Subject to Axial Compression and Bending. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2005, 49, 85-89.	2.5	18
92	Application of novel constrained optimization algorithms to the minimum volume design of planar CHS trusses with parallel chords. <i>Engineering Optimization</i> , 2004, 36, 457-471.	2.6	3
93	Analysis and optimum design of fibre-reinforced composite structures. <i>Structural and Multidisciplinary Optimization</i> , 2004, 28, 170.	3.5	23
94	Optimum Design and Cost Calculation of a Simple Frame with Welded or Bolted Corner Joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2004, 48, 42-49.	2.5	15
95	Optimum Design of a Belt-Conveyor Bridge Constructed as a Welded Ring-Stiffened Cylindrical Shell. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2004, 48, 37-41.	2.5	23
96	Optimal design of a welded I-section frame using four conceptually different optimization algorithms. <i>Structural and Multidisciplinary Optimization</i> , 2003, 25, 54-61.	3.5	17
97	Optimal design of a hoist structure frame. <i>Applied Mathematical Modelling</i> , 2003, 27, 963-982.	4.2	9
98	Cost Comparison of Bolted and Welded Frame Joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2003, 47, 12-18.	2.5	3
99	Optimum cost design of welded box beams with longitudinal stiffeners using advanced backtrack method. <i>Structural and Multidisciplinary Optimization</i> , 2001, 21, 52-59.	3.5	19
100	Unified object-oriented definition of thin-walled steel beam-column cross-sections. <i>Computers and Structures</i> , 2001, 79, 839-852.	4.4	8
101	Local stability of trusses in the context of topology optimization, Parts I and II. <i>Structural and Multidisciplinary Optimization</i> , 2000, 19, 249-251.	3.5	1
102	Optimum design of welded stiffened plates loaded by hydrostatic normal pressure. <i>Structural and Multidisciplinary Optimization</i> , 2000, 20, 311-316.	3.5	3
103	Cost calculation and optimisation of welded steel structures. <i>Journal of Constructional Steel Research</i> , 1999, 50, 115-135.	3.9	69
104	Economic design of welded steel structures. <i>Journal of Constructional Steel Research</i> , 1998, 46, 35-36.	3.9	2
105	Minimum material cost design of five-layer sandwich beams. <i>Structural Optimization</i> , 1998, 15, 215-220.	0.6	7
106	Analysis and Optimum Design of Metal Structures (Farkas, J. und J��rmai, K.). <i>Stahlbau</i> , 1998, 67, 400-400.	0.1	0
107	Backtrack Method with Applications to Dso. , 1997, , 167-231.		1
108	Multiobjective Optimal Design of Welded Box Beams. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 1995, 10, 249-255.	9.8	4

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109	Minimum cost design of laterally loaded welded rectangular cellular plates. Structural Optimization, 1994, 8, 262-267.	0.6	2
110	Decision support system on IBM PC for design of economic steel structures applied to crane girders. Thin-Walled Structures, 1990, 10, 143-159.	5.3	10
111	Single- and multicriteria optimization as a tool of decision support system. Computers in Industry, 1989, 11, 249-266.	9.9	11
112	Application of decision support system on sandwich beams, verified by experiments. Computers in Industry, 1989, 11, 267-274.	9.9	5
113	Structural synthesis of sandwich beams with outer layers of box-section. Journal of Sound and Vibration, 1982, 84, 47-56.	3.9	4
114	The Intumescent Paint Layers Thickness Influence on the Load-Bearing Capacity of the Steel Joints. Advanced Materials Research, 0, 969, 332-339.	0.3	3
115	Overhead Travelling Crane Main Girder Design for Minimum Cost. , 0, , .		0
116	Optimum Design of Shell-and-Tube Heat Exchangers. , 0, , .		0
117	Optimum Design of Vessel Supporting Frame for Fire. , 0, , .		1
118	Optimum Design of Compression Columns of Welded I-Section and Comparison with Rolled Profiles. , 0, , .		1
119	Deterministic and Reliability-Based Optimization of a Belt-Conveyor Bridge. , 0, , .		0