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Structural optimization in geotechnical engineering: basics and application

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15	Active earth pressure shielding in quay wall constructions: numerical modeling. <i>Acta Geotechnica</i> , 2012 , 7, 343-355	4.9	14
14	Three-dimensional topology optimization for geotechnical foundations in granular soil. <i>Computers and Geotechnics</i> , 2016 , 80, 41-48	4.4	9
13	Topologieoptimierung in der Geotechnik: Anwendung auf Gründungsstrukturen und Validierung. <i>Geotechnik</i> , 2016 , 39, 18-28	0.2	1
12	Optimal design of pad footing based on MINLP optimization. <i>Soils and Foundations</i> , 2018 , 58, 277-289	2.9	9
11	A three-dimensional topology optimization model for tooth-root morphology. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018 , 21, 177-185	2.1	1
10	Optimal design of piled embankments with basal reinforcement. <i>Geosynthetics International</i> , 2018 , 25, 150-163	3.3	11
9	Integrated optimal design of jackets and foundations. <i>Marine Structures</i> , 2018 , 61, 398-418	3.8	7
8	Application of genetic algorithm method for soil nailing parameters optimization. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 800, 012009	0.4	
7	Optimization of Stabilizing Systems in Protection of Cultural Heritage: The Case of the Historical Retaining Wall in the Wisibujdie Fortress. <i>Sustainability</i> , 2020 , 12, 8570	3.6	3
6	Parametric analysis and optimization of T-shaped and conventional deep cement mixing column-supported embankments. <i>Computers and Geotechnics</i> , 2020 , 122, 103555	4.4	10
5	Numerical Optimization in Engineering and Sciences. <i>Advances in Intelligent Systems and Computing</i> , 2020 ,	0.4	1
4	Particle Swarm Optimization Variants for Solving Geotechnical Problems: Review and Comparative Analysis. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 1871-1927	7.8	13
3	Covariance matrix adaptation evolution strategy for topology optimization of foundations under static and dynamic loadings. <i>Computers and Geotechnics</i> , 2021 , 140, 104461	4.4	0
2	Numerical Optimization of Pile Foundation in Non-liquefiable and Liquefiable Soils. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 15-23	0.4	
1	Topology optimization of in-pit codisposal of waste rocks and tailings to reduce advective contaminant transport to the environment. <i>Structural and Multidisciplinary Optimization</i> , 2022 , 65,	3.6	