

# Abdul-Hamid Soubra

## List of Publications by Year in descending order

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70  
papers

2,799  
citations

279701

23  
h-index

214721

47  
g-index

70  
all docs

70  
docs citations

70  
times ranked

920  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic analysis of a monopile-supported offshore wind turbine considering the soil-foundation-structure interaction. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 158, 107281.	1.9	6
2	Improved active learning probabilistic approach for the computation of failure probability. <i>Structural Safety</i> , 2021, 88, 102011.	2.8	16
3	A full three-dimensional model for the estimation of the natural frequencies of an offshore wind turbine in sand. <i>Wind Energy</i> , 2021, 24, 699-719.	1.9	15
4	Efficient estimation of the failure probability of a monopile foundation using a Kriging-based approach with multi-point enrichment. <i>Computers and Geotechnics</i> , 2020, 121, 103451.	2.3	9
5	Probabilistic analysis of strip footings based on enhanced Kriging metamodeling. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 2667-2686.	1.7	4
6	Probabilistic analysis of strip footings resting on spatially varying soils using kriging metamodeling and importance sampling. <i>Computers and Geotechnics</i> , 2019, 114, 103107.	2.3	21
7	Probabilistic analysis of an offshore monopile foundation taking into account the soil spatial variability. <i>Computers and Geotechnics</i> , 2019, 106, 205-216.	2.3	25
8	Kriging-Based Reliability Analysis of Strip Footings Resting on Spatially Varying Soils. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	1.5	42
9	Probabilistic Analysis of Strip Footings Resting on Spatially Varying Soils Using Importance Sampling and Kriging Metamodeling. , 2017, , .		0
10	Bearing capacity of spatially random rock masses obeying Hoek's Brown failure criterion. <i>Georisk</i> , 2017, 11, 215-229.	2.6	8
11	Efficient Sparse Polynomial Chaos Expansion Methodology for Computationally-Expensive Deterministic Models. , 2017, , .		0
12	Probabilistic analyses of soil consolidation by prefabricated vertical drains for single-drain and multi-drain systems. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 2398-2420.	1.7	7
13	EFFECT OF SOIL SPATIAL VARIABILITY ON THE DYNAMIC BEHAVIOR OF A SLOPE. , 2016, , .		5
14	BEARING CAPACITY OF STRIP FOOTINGS ON SPATIALLY RANDOM SOILS USING KRIGING AND MONTE CARLO SIMULATION. , 2016, , .		0
15	Three-dimensional face stability analysis of pressurized tunnels driven in a multilayered purely frictional medium. <i>Tunnelling and Underground Space Technology</i> , 2015, 49, 18-34.	3.0	142
16	Partially Observable Markov Decision Processes incorporating epistemic uncertainties. <i>European Journal of Operational Research</i> , 2015, 241, 391-401.	3.5	5
17	Probabilistic Analysis of Strip Footings Resting on Spatially Varying Soils and Subjected to Vertical or Inclined Loads. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	31
18	Reliability Analyses at Ultimate and Serviceability Limit States of Obliquely Loaded Circular Foundations. <i>Geotechnical and Geological Engineering</i> , 2014, 32, 729-738.	0.8	7

#	ARTICLE	IF	CITATIONS
19	Probabilistic analysis at the serviceability limit state of two neighboring strip footings resting on a spatially random soil. <i>Structural Safety</i> , 2014, 49, 2-9.	2.8	38
20	Bearing capacity of strip footings on spatially random soils using sparse polynomial chaos expansion. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 2039-2060.	1.7	58
21	Probabilistic analyses of tunneling-induced ground movements. <i>Acta Geotechnica</i> , 2013, 8, 181-199.	2.9	110
22	Extension of dynamic programming models for management optimisation from single structure to multi-structures level. <i>Structure and Infrastructure Engineering</i> , 2013, 9, 432-447.	2.0	5
23	Continuous velocity fields for collapse and blowout of a pressurized tunnel face in purely cohesive soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013, 37, 2061-2083.	1.7	131
24	Range of the Safe Retaining Pressures of a Pressurized Tunnel Face by a Probabilistic Approach. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 1954-1967.	1.5	49
25	Incorporating Bayesian Networks in Markov Decision Processes. <i>Journal of Infrastructure Systems</i> , 2013, 19, 415-424.	1.0	11
26	Influence of Soil Spatial Variability and Stochastic Ground-Motion on the Dynamic Behavior of a Slope. , 2012, , .		0
27	Improved Subset Simulation for the SLS Analysis of Two Neighboring Strip Footings Resting on a Spatially Random Soil. , 2012, , .		0
28	Probabilistic analysis of a one-dimensional soil consolidation problem. <i>Georisk</i> , 2012, 6, 36-49.	2.6	18
29	Probabilistic analysis of strip footings resting on a spatially random soil using subset simulation approach. <i>Georisk</i> , 2012, 6, 188-201.	2.6	54
30	Extension of subset simulation approach for uncertainty propagation and global sensitivity analysis. <i>Georisk</i> , 2012, 6, 162-176.	2.6	8
31	Probabilistic analysis of obliquely loaded strip foundations. <i>Soils and Foundations</i> , 2012, 52, 524-538.	1.3	15
32	Probabilistic analysis and design of strip foundations resting on rocks obeying Hoekâ€“Brown failure criterion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 49, 45-58.	2.6	48
33	Subset Simulation and Its Application to a Spatially Random Soil. , 2011, , .		3
34	Rotational failure mechanisms for the face stability analysis of tunnels driven by a pressurized shield. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2011, 35, 1363-1388.	1.7	333
35	Extension of CSRSM for the Parametric Study of the Face Stability of Pressurized Tunnels. , 2011, , .		2
36	Influence of the Scale of Fluctuation of the Friction Angle on the Face Stability of a Pressurized Tunnel in Sands. , 2011, , .		6

#	ARTICLE	IF	CITATIONS
37	Deterministic and Probabilistic Seismic Analyses of a Slope-Footing System. , 2011, , .		1
38	Probabilistic Analysis of Shallow Foundations on Rocks Obeying Hoek-Brown Failure Criterion. , 2011, , .		0
39	Validation of a New 2D Failure Mechanism for the Stability Analysis of a Pressurized Tunnel Face in a Spatially Varying Sand. Journal of Engineering Mechanics - ASCE, 2011, 137, 8-21.	1.6	130
40	Probabilistic Analysis of Pressurized Tunnels against Face Stability Using Collocation-Based Stochastic Response Surface Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 385-397.	1.5	99
41	Bearing Capacity of Strip Footings on Spatially Random Soils Using Sparse Polynomial Chaos Expansion. , 2011, , .		3
42	Face Stability Analysis of Circular Tunnels Driven by a Pressurized Shield. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 215-229.	1.5	258
43	Probabilistic analysis and design at the ultimate limit state of obliquely loaded strip footings. Geotechnique, 2010, 60, 275-285.	2.2	22
44	Reliability-Based Analysis of Strip Footings Subjected to an Inclined or an Eccentric Loading. , 2010, , .		1
45	Reliability-Based Analysis and Design of Eccentrically Loaded Footings. , 2009, , .		1
46	Probabilistic Analysis of the Face Stability of Circular Tunnels. , 2009, , .		4
47	Probabilistic Analysis and Design of Circular Tunnels against Face Stability. International Journal of Geomechanics, 2009, 9, 237-249.	1.3	179
48	Probabilistic Analysis of Circular Tunnels in Homogeneous Soil Using Response Surface Methodology. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1314-1325.	1.5	181
49	Reliability-Based Analysis and Design of Strip Footings against Bearing Capacity Failure. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 917-928.	1.5	60
50	Bearing Capacity of Foundations Resting on a Spatially Random Soil. , 2008, , .		22
51	Three-Dimensional Face Stability Analysis of Circular Tunnels by a Kinematical Approach. , 2008, , .		40
52	Three-Dimensional Face Stability Analysis of Circular Tunnels by Numerical Simulations. , 2008, , .		16
53	Reliability-Based Analysis of Strip Footings Using Response Surface Methodology. International Journal of Geomechanics, 2008, 8, 134-143.	1.3	39
54	Reliability-Based Analysis and Design of Foundations Resting on a Spatially Random Soil. , 2008, , .		2

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55	Numerical Simulations for the Bearing Capacity of Strip Footings. , 2007, , 1.		5
56	Reliability-Based Analysis and Design of Obliquely Loaded Footings. , 2007, , 1.		1
57	Passive and active earth pressures in the presence of groundwater flow. Geotechnique, 2006, 56, 149-158.	2.2	31
58	Static and seismic passive earth pressure coefficients on rigid retaining structures: Reply. Canadian Geotechnical Journal, 2001, 38, 1151.	1.4	2
59	Static and seismic passive earth pressure coefficients on rigid retaining structures: Discussion. Canadian Geotechnical Journal, 2001, 38, 1149-1150.	1.4	6
60	Etude de la butée sur un Ancrage de largeur limitée en sol frottant. Revue Européenne De Génie Civil, 2000, 4, 543-576.	0.0	1
61	Discussion and Closure: Upper-Bound Solutions for Bearing Capacity of Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 856-857.	1.5	2
62	Three-Dimensional Passive Earth Pressures by Kinematical Approach. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 969-978.	1.5	47
63	Static and seismic passive earth pressure coefficients on rigid retaining structures. Canadian Geotechnical Journal, 2000, 37, 463-478.	1.4	119
64	Upper-Bound Solutions for Bearing Capacity of Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 59-68.	1.5	230
65	Passive earth pressures in the presence of hydraulic gradients. Geotechnique, 1999, 49, 319-330.	2.2	41
66	Variational displacement method for geosynthetically reinforced slope stability analysis. Geotextiles and Geomembranes, 1998, 16, 1-25.	2.3	10
67	Variational displacement method for geosynthetically reinforced slope stability analysis II. Global stability. Geotextiles and Geomembranes, 1998, 16, 27-44.	2.3	6
68	Discussion and Closure: Numerical Studies of Bearing-Capacity Factor $N^*$ . Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 465-466.	1.5	0
69	Discussion and Closure: Load-Displacement Prediction for Horizontally Loaded Vertical Plates. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 460-462.	1.5	0
70	Discussion of "Seismic Bearing Capacity and Settlements of Foundations" by R. Richards Jr., D. G. Elms, and M. Budhu (April, 1993, Vol. 119, No. 4). Journal of Geotechnical Engineering, 1994, 120, 1634-1636.	0.4	8