Fernando Salazar

List of Publications by Year in Descending Order

28 papers	689 citations	9 h-index	26 g-index
32 ext. papers	858 ext. citations	3.2 avg, IF	4.46 L-index

#	Paper	IF	Citations
28	Coupling machine learning and stochastic finite element to evaluate heterogeneous concrete infrastructure. *Engineering Structures*, **2022**, 260, 114190	4.7	2
27	Identification of Dam Behavior by Means of Machine Learning Classification Models. *Lecture Notes in Civil Engineering*, **2021**, 851-862	0.3	
26	Interpretation of Dam Monitoring Data Combining Visualisation Tools and Machine Learning. Eberlaste Dam Case Study. *Lecture Notes in Civil Engineering*, **2021**, 863-874	0.3	
25	Validation of Machine Learning Models for Structural Dam Behaviour Interpretation and Prediction. *Water (Switzerland)*, **2021**, 13, 2717	3	3
24	Anomaly Detection in Dam Behaviour with Machine Learning Classification Models. *Water (Switzerland)*, **2021**, 13, 2387	3	3
23	A Review on Thermo-mechanical Modelling of Arch Dams During Construction and Operation: Effect of the Reference Temperature on the Stress Field. *Archives of Computational Methods in Engineering*, **2020**, 27, 1681-1707	7.8	4
22	Engaging soft computing in material and modeling uncertainty quantification of dam engineering problems. *Soft Computing*, **2020**, 24, 11583-11604	3.5	8
21	Aliviaderos con cajeros altamente convergentes. Una alternativa para la reconstrucción del aliviadero de emergencia de la presa de Oroville. *Ribagua*, **2020**, 7, 12-27	0.5	
20	Shockwaves in spillways with the particle finite element method. *Computational Particle Mechanics*, **2020**, 7, 87-99	3	3
19	Effect of the integration scheme on the rotation of non-spherical particles with the discrete element method. *Computational Particle Mechanics*, **2019**, 6, 545-559	3	6
18	A Performance Comparison of Machine Learning Algorithms for Arced Labyrinth Spillways. *Water (Switzerland)*, **2019**, 11, 544	3	16
17	Discussion on Thermal displacements of concrete dams: Accounting for water temperature in statistical models *Engineering Structures*, **2018**, 171, 1071-1072	4.7	6
16	Data-Based Models for the Prediction of Dam Behaviour: A Review and Some Methodological Considerations. *Archives of Computational Methods in Engineering*, **2017**, 24, 1-21	7.8	129
15	Air demand estimation in bottom outlets with the particle finite element method. *Computational Particle Mechanics*, **2017**, 4, 345-356	3	8
14	Numerical modelling of granular materials with spherical discrete particles and the bounded rolling friction model. Application to railway ballast. *Computers and Geotechnics*, **2017**, 85, 220-229	4.4	46
13	Early detection of anomalies in dam performance: A methodology based on boosted regression trees. *Structural Control and Health Monitoring*, **2017**, 24, e2012	4.5	41
12	An Interactive Tool for Automatic Predimensioning and Numerical Modeling of Arch Dams. *Mathematical Problems in Engineering*, **2017**, 2017, 1-12	1.1	5

LIST OF PUBLICATIONS

11	Development and validation of a multivariate predictive model for rheumatoid arthritis mortality using a machine learning approach. *Scientific Reports*, **2017**, 7, 10189	4.9	34
10	Numerical modelling of landslide-generated waves with the particle finite element method (PFEM) and a non-Newtonian flow model. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2016**, 40, 809-826	4	55
9	Modelación física y numérica de aliviaderos en laberinto con fondo poliédrico. *Ingeniería Del Agua*, **2016**, 20, 127	0.7	5
8	Interpretation of dam deformation and leakage with boosted regression trees. *Engineering Structures*, **2016**, 119, 230-251	4.7	61
7	An empirical comparison of machine learning techniques for dam behaviour modelling. *Structural Safety*, **2015**, 56, 9-17	4.9	101
6	CFD analysis of flow pattern in labyrinth weirs **2015**, 287-294		2
5	Modelación del funcionamiento hidráulico de los dispositivos de aireación de desagües de fondo de presas mediante el método de partículas y elementos finitos. *Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria*, **2014**, 30, 51-59	1.8	3
4	Analysis of the discharge capacity of radial-gated spillways using CFD and ANN Oliana Dam case study. *Journal of Hydraulic Research/De Recherches Hydrauliques*, **2013**, 51, 244-252	1.9	8
3	Modelación numérica de deslizamientos de ladera en embalses mediante el Método de Partículas y Elementos Finitos (PFEM). *Revista Internacional De Metodos Numericos Para Calculo Y Diseno En Ingenieria*, **2012**, 28, 112-123	1.8	9
2	Possibilities of the particle finite element method for fluid-soil-structure interaction problems. *Computational Mechanics*, **2011**, 48, 307-318	4	126
1	Numerical modeling of landslides in reservoirs using the Particle Finite Element Method (PFEM) **2011**, 245-250		4