Giulio Ventura

List of Publications by Year
in descending order

28 papers	1,305 citations	933264 10 h-index	501076 28 g-index
28 all docs	28 docs citations	28 times ranked	1016 citing authors

#	Article	IF	Citations
1	Genetic Algorithm Supported by Influence Lines and a Neural Network for Bridge Health Monitoring. Journal of Structural Engineering, 2022, 148, .	1.7	8
2	Linear and non-linear FEM analyses to assess a shear flat-jack test for masonries. Journal of Building Engineering, 2021, 43, 103169.	1.6	5
3	Shear Flat Jack Test for Evaluating Shear Characteristics on Unreinforced Masonry Structures. International Journal of Architectural Heritage, 2020, , 1-29.	1.7	4
4	Customised active monitoring system for structural control and maintenance optimisation. Journal of Civil Structural Health Monitoring, 2020, 10, 267-282.	2.0	11
5	Bridge Active Monitoring for Maintenance and Structural Safety. Structural Integrity, 2020, , 866-873.	0.8	2
6	EQP - A 2D/3D library for integration of polynomials times step function. SoftwareX, 2020, 12, 100636.	1.2	5
7	AE Characterization of Brick Masonry Walls Mechanical Behavior: The Case-Study of Alessandria and Boves Barracks. Key Engineering Materials, 2019, 817, 563-570.	0.4	1
8	Stable 3D XFEM/vector level sets for nonâ€planar 3D crack propagation and comparison of enrichment schemes. International Journal for Numerical Methods in Engineering, 2018, 113, 252-276.	1.5	61
9	A New Experimental Test for the Characterisation of Masonry Shear Parameters. Proceedings (mdpi), 2018, 2, 464.	0.2	2
10	Well Conditioned Extended Finite Elements and Vector Level Sets for Three-Dimensional Crack Propagation. Lecture Notes in Computational Science and Engineering, 2017, , 307-329.	0.1	7
11	Stabilized X-FEM for Heaviside and Nonlinear Enrichments. SEMA SIMAI Springer Series, 2016, , 209-228.	0.4	5
12	Accuracy of three-dimensional analysis of regularized singularities. International Journal for Numerical Methods in Engineering, 2015, 101, 29-53.	1.5	9
13	Three-Dimensional Limit Analysis of the Vicoforte Elliptical Dome. International Journal of Architectural Heritage, 2014, 8, 649-669.	1.7	10
14	Variationally consistent eXtended FE model for 3D planar and curved imperfect interfaces. Computer Methods in Applied Mechanics and Engineering, 2013, 267, 434-457.	3.4	22
15	Finite Element Quadrature of Regularized Discontinuous and Singular Level Set Functions in 3D Problems. Algorithms, 2012, 5, 529-544.	1.2	7
16	A chemo-mechanical model of lime hydration in concrete structures. Construction and Building Materials, 2012, 29, 308-315.	3.2	5
17	Fast integration and weight function blending in the extended finite element method. International Journal for Numerical Methods in Engineering, 2009, 77, 1-29.	1.5	171
18	A review of extended/generalized finite element methods for material modeling. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 043001.	0.8	638

#	Article	IF	Citations
19	Domain and boundary quadrature for enrichment functions in the extended finite element method. International Journal of Material Forming, 2008, 1, 1135-1138.	0.9	1
20	A new fast finite element method for dislocations based on interior discontinuities. International Journal for Numerical Methods in Engineering, 2007, 69, 423-441.	1.5	74
21	Minimum reinforcement in concrete structures and material/structural instability. International Journal of Fracture, 2007, 146, 213-231.	1.1	7
22	Single Domain Quadrature Techniques for Discontinuous and Non-Linear Enrichments in Local Partion of Unity FEM. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2007, , 343-361.	0.1	1
23	On the elimination of quadrature subcells for discontinuous functions in the eXtended Finite-Element Method. International Journal for Numerical Methods in Engineering, 2006, 66, 761-795.	1.5	173
24	Double brittle-to-ductile transition in bending of fibre reinforced concrete beams with rebars. International Journal for Numerical and Analytical Methods in Geomechanics, 2004, 28, 737-756.	1.7	7
25	Numerical analysis of Augmented Lagrangian algorithms in complementary elastoplasticity. International Journal for Numerical Methods in Engineering, 2004, 60, 2263-2287.	1.5	13
26	Size effects on flexural response of reinforced concrete elements with a nonlinear matrix. Engineering Fracture Mechanics, 2003, 70, 995-1013.	2.0	17
27	The partition of unity quadrature in element-free crack modelling. Computers and Structures, 2003, 81, 1783-1794.	2.4	17
28	An augmented Lagrangian element-free (ALEF) approach for crack discontinuities. Computer Methods in Applied Mechanics and Engineering, 2001, 191, 941-957.	3.4	22