

Gabriel Bugada

List of Publications by Year in descending order

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37
papers

549
citations

933264

10
h-index

642610

23
g-index

40
all docs

40
docs citations

40
times ranked

525
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical prediction of temperature and density distributions in selective laser sintering processes. Rapid Prototyping Journal, 1999, 5, 21-26.	1.6	141
2	Numerical analysis of stereolithography processes using the finite element method. Rapid Prototyping Journal, 1995, 1, 13-23.	1.6	57
3	Multilayered composite structure design optimisation using distributed/parallel multi-objective evolutionary algorithms. Composite Structures, 2012, 94, 1087-1096.	3.1	46
4	A general methodology for structural shape optimization problems using automatic adaptive remeshing. International Journal for Numerical Methods in Engineering, 1993, 36, 3161-3185.	1.5	43
5	Robust design optimisation of advance hybrid (fiber-metal) composite structures. Composite Structures, 2013, 99, 181-192.	3.1	34
6	Outlook on ecologically improved composites for aviation interior and secondary structures. CEAS Aeronautical Journal, 2018, 9, 533-543.	0.9	33
7	Drag reduction via turbulent boundary layer flow control. Science China Technological Sciences, 2017, 60, 1281-1290.	2.0	29
8	Active flow control optimisation on SD7003 airfoil at pre and post-stall angles of attack using synthetic jets. Applied Mathematical Modelling, 2021, 98, 435-464.	2.2	21
9	Shape variable definition with and C2 continuity functions. Computer Methods in Applied Mechanics and Engineering, 2000, 188, 727-742.	3.4	16
10	An integration of a low cost adaptive remeshing strategy in the solution of structural shape optimization problems using evolutionary methods. Computers and Structures, 2008, 86, 1563-1578.	2.4	14
11	A methodology for adaptive mesh refinement in optimum shape design problems. Computing Systems in Engineering: an International Journal, 1994, 5, 91-102.	0.5	11
12	A comparison between new adaptive remeshing strategies based on point wise stress error estimation and energy norm error estimation. Communications in Numerical Methods in Engineering, 2002, 18, 469-482.	1.3	10
13	Some algorithms to correct a geometry in order to create a finite element mesh. Computers and Structures, 2002, 80, 1399-1408.	2.4	10
14	Robust active shock control bump design optimisation using hybrid parallel MOGA. Computers and Fluids, 2013, 80, 214-224.	1.3	9
15	On the need for the use of error-controlled finite element analyses in structural shape optimization processes. International Journal for Numerical Methods in Engineering, 2011, 87, 1105-1126.	1.5	8
16	Shape sensitivity analysis for structural problems with non-linear material behaviour. International Journal for Numerical Methods in Engineering, 1999, 46, 1385-1404.	1.5	7
17	Lift maximization with uncertainties for the optimization of high lift devices. International Journal for Numerical Methods in Fluids, 2010, 64, 119-135.	0.9	7
18	Lift maximization with uncertainties for the optimization of high lift devices using Multi-Criterion Evolutionary Algorithms. , 2009, , .		6

#	ARTICLE	IF	CITATIONS
19	Multi-objective design optimization of morphing UAV aerofoil/wing using hybridised MOGA. , 2012, , .		6
20	Multi-objective aerodynamic shape optimization using MOGA coupled to advanced adaptive mesh refinement. Computers and Fluids, 2013, 88, 298-312.	1.3	6
21	Optimum aerodynamic shape design including mesh adaptivity. International Journal for Numerical Methods in Fluids, 1995, 20, 915-934.	0.9	5
22	Multi-Input Genetic Algorithm for Experimental Optimization of the Reattachment Downstream of a Backward-Facing-Step with Surface Plasma Actuator. , 2015, , .		4
23	Optimum aerodynamic shape design for fluid flow problems including mesh adaptivity. , 1999, 30, 161-178.		3
24	A new adaptive remeshing scheme based on the sensitivity analysis of the SPR point wise error estimation. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 462-478.	3.4	3
25	Double Shock Control Bump design optimization using hybridised evolutionary algorithms. , 2010, , .		3
26	A New Hybrid Optimization Method, Application to a Single Objective Active Flow Control Test Case. Applied Sciences (Switzerland), 2022, 12, 3894.	1.3	3
27	A C++ object-oriented programming strategy for the implementation of the finite element sensitivity analysis for a non-linear structural material model. Advances in Engineering Software, 2001, 32, 927-935.	1.8	2
28	Control of the finite element discretization error during the convergence of structural shape optimization algorithms. International Journal for Simulation and Multidisciplinary Design Optimization, 2009, 3, 363-369.	0.6	1
29	General Introduction to Monte Carlo and Multi-level Monte Carlo Methods. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 265-278.	0.2	1
30	Industrial Application of Genetic Algorithms to Cost Reduction of a Wind Turbine Equipped with a Tuned Mass Damper. Computational Methods in Applied Sciences (Springer), 2019, , 419-436.	0.1	1
31	Structural shape sensitivity analysis for nonlinear material models with strain softening. Structural Optimization, 1999, 17, 162.	0.7	1
32	Applying Multi-objective Robust Design Optimization Procedure to the Route Planning of a Commercial Aircraft. Computational Methods in Applied Sciences (Springer), 2018, , 147-167.	0.1	1
33	Influence of the finite element discretization error over the convergence of structural shape optimization algorithms. , 2007, , .		0
34	Non-Deterministic Shape Optimization in Aeronautics. , 2008, , .		0
35	Monte Carlo-Based and Sampling-Based Methods and Their Range of Applicability. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 715-720.	0.2	0
36	Optimization of the Experimental Set-up for a Turbulent Separated Shear Flow Control by Plasma Actuator Using Genetic Algorithms. Computational Methods in Applied Sciences (Springer), 2020, , 171-185.	0.1	0

#	ARTICLE	IF	CITATIONS
37	Description of the Test Cases. Computational Methods in Applied Sciences (Springer), 2020, , 27-53.	0.1	0