Domenico Quagliarella

List of Publications by Year
in descending order

41 papers	**645** citations	933447 **10** h-index	642732 **23** g-index
45 all docs	**45** docs citations	**45** times ranked	**423** citing authors

#	Article	IF	Citations
1	Gradient based empirical cumulative distribution function approximation for robust aerodynamic design. Aerospace Science and Technology, 2021, 112, 106630.	4.8	4
2	Risk Measures in the Context of Robust and Reliability Based Optimization. , 2021, , 411-427.		0
3	Multi-fidelity Surrogate Assisted Design Optimisation of an Airfoil under Uncertainty Using Far-Field Drag Approximation. Space Technology Proceedings, 2021, , 35-53.	0.1	0
4	High-Lift Devices Topology Optimisation using Structured-Chromosome Genetic Algorithm. , 2020, , .		2
5	An Open-Source Aerodynamic Framework for Benchmarking Multi-Fidelity Methods. , 2020, , .		2
6	Risk Measures Applied to Robust Aerodynamic Shape Design Optimization. Lecture Notes in Applied and Computational Mechanics, 2020, , 153-168.	2.2	3
7	Augmented Lagrangian Approach for Constrained Potential Nash Games. Computational Methods in Applied Sciences (Springer), 2019, , 269-282.	0.3	0
8	Benchmarking Uncertainty Quantification Methods Using the NACA 2412 Airfoil with Geometrical and Operational Uncertainties. , 2019, , .		7
9	Airfoil Optimization Using Far-Field Analysis of the Drag Force. , 2019, , .		2
10	An aerothermodynamic design optimization framework for hypersonic vehicles. Aerospace Science and Technology, 2019, 84, 339-347.	4.8	39
11	Application of Surrogate-Based Optimization Techniques to Aerodynamic Design Cases. Computational Methods in Applied Sciences (Springer), 2019, , 65-93.	0.3	1
12	Value-at-Risk and Conditional Value-at-Risk in Optimization Under Uncertainty. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2019, , 541-565.	0.3	3
13	Evolutionary Algorithms and Metaheuristics: Applications in Engineering Design and Optimization. Mathematical Problems in Engineering, 2018, 2018, 1-4.	1.1	27
14	Constraint handling in efficient global optimization. , 2017, , .		23
15	Robust Design of a Supersonic Natural Laminar Flow Wing-Body. IEEE Computational Intelligence Magazine, 2017, 12, 14-27.	3.2	18
16	A conservative sliding mesh coupling procedure for U-RANS flow simulations. Aircraft Engineering and Aerospace Technology, 2016, 88, 151-158.	0.8	7
17	Helicopter stabilizer optimization considering rotor downwash in forward-flight. Aircraft Engineering and Aerospace Technology, 2016, 88, 846-865.	1.2	4
18	Aerodynamic shape design using hybrid evolutionary computing and multigrid-aided finite-difference evaluation of flow sensitivities. Engineering Computations, 2015, 32, 178-210.	1.4	4

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19	Aerodynamic Design with Physics-Based Surrogates. , 2015, , 1185-1209.		0
20	Aerodynamic Shape Design Using Evolutionary Computation: A Tutorial with Examples and Case Studies. , 2014, , 529-581.		2
21	Optimization Under Uncertainty Using the Generalized Inverse Distribution Function. Computational Methods in Applied Sciences (Springer), 2014, , 171-190.	0.3	8
22	Proper Orthogonal Decomposition, surrogate modelling and evolutionary optimization in aerodynamic design. Computers and Fluids, 2013, 84, 327-350.	2.5	71
23	Aerodynamic shape optimization via non-intrusive POD-based surrogate modelling. , 2013, , .		14
24	A probabilistic non-dominated sorting GA for optimization under uncertainty. Engineering Computations, 2013, 30, 1054-1085.	1.4	9
25	Computational methods in engineering design and optimization. Engineering Computations, 2013, 30, .	1.4	3
26	Genetic Algorithms for the Resource Constrained Project Scheduling Problem. , 2012, , .		3
27	Wind Turbine Optimization Under Uncertainty with High Performance Computing. , 2011, , .		4
28	Wind Turbine Performance Analysis Under Uncertainty. , 2011, , .		22
29	Design of a Supersonic Natural Laminar Flow Wing-Body. Journal of Aircraft, 2011, 48, 1147-1162.	2.4	8
30	Efficient aerodynamic optimization of a very light jet aircraft using evolutionary algorithms and RANS flow models. , 2010, , .		2
31	Design and Test of the UW-5006 Transonic Natural-Laminar-Flow Wing. Journal of Aircraft, 2010, 47, 783-795.	2.4	38
32	Advanced Design by Numerical Methods and Wind-Tunnel Verification Within European High-Lift Program. Journal of Aircraft, 2009, 46, 157-167.	2.4	11
33	Natural Laminar Flow Design of a Supersonic Transport Jet Wing Body. , 2009, , .		3
34	Advanced High-Lift Design by Numerical Methods and Wind Tunnel Verification within the European Project EUROLIFT II. , 2007, , .		11
35	Aerodynamic Shape Design Using Hybrid Evolutionary Computation and Fitness Approximation. , 2004, , .		8
36	Viscous single and multicomponent airfoil design with genetic algorithms. Finite Elements in Analysis and Design, 2001, 37, 365-380.	3.2	25

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37	Airfoil and Wing Design Through Hybrid Optimization Strategies. AIAA Journal, 1999, 37, 634-641.	2.6	107
38	Airfoil and wing design through hybrid optimization strategies. AIAA Journal, 1999, 37, 634-641.	2.6	3
39	Inverse and Direct Airfoil Design Using a Multiobjective Genetic Algorithm. AIAA Journal, 1997, 35, 1499-1505.	2.6	84
40	Inverse and direct airfoil design using a multiobjective genetic algorithm. AIAA Journal, 1997, 35, 1499-1505.	2.6	3
41	Genetic algorithms applied to the aerodynamic design of transonic airfoils. Journal of Aircraft, 1995, 32, 889-891.	2.4	57