

Domenico Quagliarella

List of Publications by Year in descending order

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Version: 2024-02-01

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	Airfoil and Wing Design Through Hybrid Optimization Strategies. AIAA Journal, 1999, 37, 634-641.	2.6	107
2	Inverse and Direct Airfoil Design Using a Multiobjective Genetic Algorithm. AIAA Journal, 1997, 35, 1499-1505.	2.6	84
3	Proper Orthogonal Decomposition, surrogate modelling and evolutionary optimization in aerodynamic design. Computers and Fluids, 2013, 84, 327-350.	2.5	71
4	Genetic algorithms applied to the aerodynamic design of transonic airfoils. Journal of Aircraft, 1995, 32, 889-891.	2.4	57
5	An aerothermodynamic design optimization framework for hypersonic vehicles. Aerospace Science and Technology, 2019, 84, 339-347.	4.8	39
6	Design and Test of the UW-5006 Transonic Natural-Laminar-Flow Wing. Journal of Aircraft, 2010, 47, 783-795.	2.4	38
7	Evolutionary Algorithms and Metaheuristics: Applications in Engineering Design and Optimization. Mathematical Problems in Engineering, 2018, 2018, 1-4.	1.1	27
8	Viscous single and multicomponent airfoil design with genetic algorithms. Finite Elements in Analysis and Design, 2001, 37, 365-380.	3.2	25
9	Constraint handling in efficient global optimization. , 2017, , .		23
10	Wind Turbine Performance Analysis Under Uncertainty. , 2011, , .		22
11	Robust Design of a Supersonic Natural Laminar Flow Wing-Body. IEEE Computational Intelligence Magazine, 2017, 12, 14-27.	3.2	18
12	Aerodynamic shape optimization via non-intrusive POD-based surrogate modelling. , 2013, , .		14
13	Advanced High-Lift Design by Numerical Methods and Wind Tunnel Verification within the European Project EUROLIFT II. , 2007, , .		11
14	Advanced Design by Numerical Methods and Wind-Tunnel Verification Within European High-Lift Program. Journal of Aircraft, 2009, 46, 157-167.	2.4	11
15	A probabilistic non-dominated sorting GA for optimization under uncertainty. Engineering Computations, 2013, 30, 1054-1085.	1.4	9
16	Aerodynamic Shape Design Using Hybrid Evolutionary Computation and Fitness Approximation. , 2004, , .		8
17	Design of a Supersonic Natural Laminar Flow Wing-Body. Journal of Aircraft, 2011, 48, 1147-1162.	2.4	8
18	Optimization Under Uncertainty Using the Generalized Inverse Distribution Function. Computational Methods in Applied Sciences (Springer), 2014, , 171-190.	0.3	8

#	ARTICLE	IF	CITATIONS
19	A conservative sliding mesh coupling procedure for U-RANS flow simulations. Aircraft Engineering and Aerospace Technology, 2016, 88, 151-158.	0.8	7
20	Benchmarking Uncertainty Quantification Methods Using the NACA 2412 Airfoil with Geometrical and Operational Uncertainties. , 2019, , .		7
21	Wind Turbine Optimization Under Uncertainty with High Performance Computing. , 2011, , .		4
22	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
23	Helicopter stabilizer optimization considering rotor downwash in forward-flight. Aircraft Engineering and Aerospace Technology, 2016, 88, 846-865.	1.2	4
24	Gradient based empirical cumulative distribution function approximation for robust aerodynamic design. Aerospace Science and Technology, 2021, 112, 106630.	4.8	4
25	Natural Laminar Flow Design of a Supersonic Transport Jet Wing Body. , 2009, , .		3
26	Genetic Algorithms for the Resource Constrained Project Scheduling Problem. , 2012, , .		3
27	Computational methods in engineering design and optimization. Engineering Computations, 2013, 30, .	1.4	3
28	Airfoil and wing design through hybrid optimization strategies. AIAA Journal, 1999, 37, 634-641.	2.6	3
29	Inverse and direct airfoil design using a multiobjective genetic algorithm. AIAA Journal, 1997, 35, 1499-1505.	2.6	3
30	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
31	Risk Measures Applied to Robust Aerodynamic Shape Design Optimization. Lecture Notes in Applied and Computational Mechanics, 2020, , 153-168.	2.2	3
32	Efficient aerodynamic optimization of a very light jet aircraft using evolutionary algorithms and RANS flow models. , 2010, , .		2
33	Aerodynamic Shape Design Using Evolutionary Computation: A Tutorial with Examples and Case Studies. , 2014, , 529-581.		2
34	Airfoil Optimization Using Far-Field Analysis of the Drag Force. , 2019, , .		2
35	High-Lift Devices Topology Optimisation using Structured-Chromosome Genetic Algorithm. , 2020, , .		2
36	An Open-Source Aerodynamic Framework for Benchmarking Multi-Fidelity Methods. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Application of Surrogate-Based Optimization Techniques to Aerodynamic Design Cases. Computational Methods in Applied Sciences (Springer), 2019, , 65-93.	0.3	1
38	Aerodynamic Design with Physics-Based Surrogates. , 2015, , 1185-1209.		0
39	Augmented Lagrangian Approach for Constrained Potential Nash Games. Computational Methods in Applied Sciences (Springer), 2019, , 269-282.	0.3	0
40	Risk Measures in the Context of Robust and Reliability Based Optimization. , 2021, , 411-427.		0
41	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