Tushar Goel

List of Publications by Year
in descending order

33 papers	3,842 citations	471371 17 h-index	794469 19 g-index
33 all docs	33 docs citations	33 times ranked	2481 citing authors

#	ARTICLE	IF	CITATIONS
1	Surrogate modeling: tricks that endured the test of time and some recent developments. Structural and Multidisciplinary Optimization, 2021, 64, 2881-2908.	1.7	24
2	Efficient resource allocation for genetic algorithm based multi-objective optimization with 1,000 simulations. Structural and Multidisciplinary Optimization, 2010, 41, 421-432.	1.7	16
3	A non‑dominance‑based online stopping criterion for multi‑objective evolutionary algorithms. International Journal for Numerical Methods in Engineering, 2010, 84, 661-684.	1.5	26
4	An Assessment of Geometry-based Convergence Metrics for Multi-Objective Evolutionary Algorithms. , 2010, , .		0
5	A Study of the Convergence Characteristics of Multiobjective Evolutionary Algorithms. , 2010, , .		7
6	Multiple-Surrogate Approach to Helicopter Rotor Blade Vibration Reduction. AIAA Journal, 2009, 47, 271-282.	1.5	74
7	Comparing error estimation measures for polynomial and kriging approximation of noise-free functions. Structural and Multidisciplinary Optimization, 2009, 38, 429-442.	1.7	76
8	Comparing three error criteria for selecting radial basis function network topology. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 2137-2150.	3.4	25
9	Pitfalls of using a single criterion for selecting experimental designs. International Journal for Numerical Methods in Engineering, 2008, 75, 127-155.	1.5	43
10	Surrogate model‑based strategy for cryogenic cavitation model validation and sensitivity evaluation. International Journal for Numerical Methods in Fluids, 2008, 58, 969-1007.	0.9	46
11	Improving the hydrodynamic performance of diffuser vanes via shape optimization. Computers and Fluids, 2008, 37, 705-723.	1.3	48
12	Influence of Selection Criterion on RBFs Network Topology Selection for Crashworthiness Optimization. , 2008, , .		2
13	Error Measures for Noise-Free Surrogate Approximations. , 2008, , .		5
14	Multiple Surrogate Modeling for Axial Compressor Blade Shape Optimization. Journal of Propulsion and Power, 2008, 24, 301-310.	1.3	163
15	Surrogate Modeling for Optimization of Dimpled Channel to Enhance Heat Transfer Performance. Journal of Thermophysics and Heat Transfer, 2007, 21, 667-671.	0.9	29
16	Surrogate Model-Based Optimization Framework: A Case Study in Aerospace Design. Studies in Computational Intelligence, 2007, , 323-342.	0.7	69
17	Hydraulic Turbine Diffuser Shape Optimization by Multiple Surrogate Model Approximations of Pareto Fronts. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 1228-1240.	0.8	52
18	Application of a Weighted Average Surrogate Approach to Helicopter Rotor Blade Vibration Reduction. , 2007, , .		10

#	ARTICLE	IF	CITATIONS
19	Improving the Hydrodynamic Performance of Diffuser Vanes via Shape Optimization. , 2007, , .		2
20	Response surface approximation of Pareto optimal front in multi-objective optimization. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 879-893.	3.4	234
21	Ensemble of surrogates. Structural and Multidisciplinary Optimization, 2007, 33, 199-216.	1.7	544
22	Surrogate Model-Based Strategy for Cryogenic Cavitation Model Validation and Sensitivity Evaluation. , 2006, , .		7
23	Performance Estimate and Simultaneous Application of Multiple Surrogates. , 2006, , .		13
24	Pointwise RMS bias error estimates for design of experiments. , 2006, , .		1
25	Shape Optimization of Turbomachinery Blade Using Multiple Surrogate Models. , 2006, , 827.		10
26	Generalized pointwise bias error bounds for response surface approximations. International Journal for Numerical Methods in Engineering, 2006, 65, 2035-2059.	1.5	2
27	Surrogate-based analysis and optimization. Progress in Aerospace Sciences, 2005, 41, 1-28.	6.3	1,891
28	Interaction between Grid and Design Space Refinement for Bluff Body-Facilitated Mixing. , 2005, , .		1
29	Multiple Surrogates for the Shape Optimization of Bluff Body-facilitated Mixing. , 2005, , .		27
30	Global Sensitivity and Trade-Off Analyses for Multi-Objective Liquid Rocket Injector Design. , 2004, , .		7
31	Response Surface Approximation of Pareto Optimal Front in Multi-objective Optimization. , 2004, , .		18
32	Controlled Elitist Non-dominated Sorting Genetic Algorithms for Better Convergence. Lecture Notes in Computer Science, 2001, , 67-81.	1.0	270
33	A Hybrid Multi-objective Evolutionary Approach to Engineering Shape Design. Lecture Notes in Computer Science, 2001, , 385-399.	1.0	100