

Rsm And Nsga Ii Based Multiple Performance

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Rsm And Nsga Ii Based The nondominated sorting genetic algorithm II (NSGA-II) is interfaced with the predictive models to find the optimum design parameter values. The results show that the hybrid method of response surface method (RSM) and NSGA-II is an effective method to solve the multi-objective optimization problem for the quality optimization of fiber-reinforced composite injection molding. Multi-objective optimization of the fiber-reinforced ... The predicted values of MRR and SR suggested by NSGA-II give a better correlation with experimental values, i.e., 1.149 g/min and $1.327 \times 10^{-3} \text{ m}$,

respectively. RSM- and NSGA-II-Based Multiple Performance Characteristics Optimization of EDM Parameters for AISI 5160 | SpringerLink RSM- and NSGA-II-Based Multiple Performance ... Multi-purpose optimization of the properties using NSGA-II and RSM to reach the optimum heat conduction with the minimum viscosity of Al₂O₃-MWCNT/thermal oil hybrid nanofluid studied by Asadi et al. . Temperature (T) and VF of nanoparticle (ϕ) are considered as the designed variables in the proposed optimization problem. Target functions are heat conduction and viscosity of the nanofluid that are modeled using empirical data and by coupling of multi-purpose optimization algorithm NSGA-II ... Statistical and

artificial based optimization on thermo ... The complex multi-objective optimization problem is solved by an NSGA-II algorithm, whose parameters are tuned using response surface methodology (RSM). A numerical illustration is solved, for which the Pareto optimal solutions are ranked by a multi-criteria decision-making method called Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS). Multi-objective economic-statistical design of simple ... In optimization with NSGA-II, optimum viscosity and heat conduction were reported in maximum operating temperature. Furthermore, in RSM optimization, the optimum condition using this nanofluid was achieved in 49.99 °C and VF of 1.49% with TC of 0.1820 (W/mK), viscosity of

0.1174 (Pa.sec) and total desirability function of 0.9725. Statistical and artificial based optimization on thermo ... Optimization of Drawbeads for Springback Based on RSM and NSGA-II. Article Preview. Abstract: To improve material flow of sheet metal, draw beads are used to prevent wrinkling and springback during deep drawing process. Firstly, taking BenchMark2 "S-Rail-08" of NUMSIHEET'2008 as a study case, based on the orthogonal tests of finite element ... Optimization of Drawbeads for Springback Based on RSM and ... For integrated (RSM-NSGA II) method, the optimum objective values are 0.57-3.84 kWh and RM 8.94-9.78 for dry and flood, respectively. A fast and elitist multiobjective genetic algorithm: NSGA ... In this paper,

ultrahigh-strength steel AF1410 was milled with the carbide tool, and a total of thirty experiments were performed based on central composite design (CCD) of response surface methodology. The prediction models of milling force and surface roughness are established, respectively. The influence of milling parameters (milling speed, each tooth feed, radial depth of cut, and axial ... Multiobjective Optimization of Milling Parameters for ... Optimization of curving performance for low floor rail vehicles based on RSM and NSGA-II genetic algorithm. Journal of the China Railway Society, 39(3), 25–39. Google Scholar; 15. Wang, C. L., Feng, Y. M., & Ye, J. (2017). Multi-objective parameters optimization of centrifugal slurry pump based on RBF

neural network and NSGA-II genetic algorithm. Multi-objective Optimization of Permanent Magnet ... In this paper, we suggest a non-dominated sorting-based MOEA, called NSGA-II (Non-dominated Sorting Genetic Algorithm II), which alleviates all of the above three difficulties. Specifically, a fast non-dominated sorting approach with $O(MN/\sup 2/)$ computational complexity is presented. Also, a selection operator is presented that creates a ... A fast and elitist multiobjective genetic algorithm: NSGA-II sorting-based multiobjective EA (MOEA), called nondominated sorting genetic algorithm II (NSGA-II), which alleviates all the above three difficulties. Specifically, a fast nondominated sorting approach with (2) computational complexity is

presented. Also, a selection operator is presented that creates a fast and elitist multiobjective genetic algorithm: NSGA ... Then, the new method is applied to redesign and optimize the runner blade of the scale core component of the 1400-MW canned nuclear coolant pump in an established multi-optimization system comprising the Computational Fluid Dynamics (CFD) analysis, the Response Surface Methodology (RSM) and the Non-dominated Sorting Genetic Algorithm-II (NSGA-II). Application of the Modified Inverse Design Method in the ... The present objective is based on the computation technique i.e hybrid RSM-NSGA-II for predicting pareto optimal solutions. Application of Hybrid RSM-NSGA-II for the

Prediction of ... To optimise the structure of a permanent magnet adjustable speed driver (PMASD), a multi-objective optimization design method for increasing the output torque and reducing the eddy current loss was proposed. Firstly, the three-dimensional finite element method model of a PMASD was established, the influence of the main configuration parameters in the PMASD on the output torque and the eddy ... Multi-objective Optimization of Permanent Magnet ... plan. Then, based on the experimental results, the ANN and RSM models were established and their performance compared. Further, the machining characteristics were evaluated using the established ANN model. Finally, The Non-dominated

Sorting Genetic Algorithm (NSGA-II) was applied for optimisation of WEDM process performance. 2. Experimentation 2.1. Response Surface Methodology and Artificial Neural Network ... RSM- and NSGA-II-Based Multiple Performance Characteristics Optimization of EDM Parameters for AISI 5160 Ved Raj Khullar , Neeraj Sharma , S. Chandra Kishore , R. C. Sharma Materials Science Analysis and Optimization of Wire Electric Discharge ... Khullar V, Sharma N, Kishore S, Sharma R (2017) RSM- and. NSGA-II-based multiple performance characteristics optimization. of EDM parameters for AISI 5160. EDM μ -drilling in Ti-6Al-7Nb: experimental investigation ... Compressive properties optimization of a bio-inspired lightweight structure is

developed by Response Surface Methodology (RSM) and Non-dominated Sorting Genetic Algorithm II (NSGA-II). Multi-layered bio-inspired structures of a Ti6Al4V alloy are designed and fabricated by Selective Laser Melting. Compressive properties optimization of a bio-inspired ... using hybrid method of RSM and NSGA-II *1 A.Tamilarasan, 2 K.Marimuthu, 3 A.Renugambal *1 Assistant Professor, Department of Mechanical Engineering, Sri Chandrasekharendra Saraswathi Viswa Maha Vidyalaya University, Kanchipuram-631561,Tamilnadu,India. Investigations and optimization for hard milling process ... By virtue of in-depth discussion and analysis on the mechanism of NSGA-II C.D. sorting, a new method is proposed to

overcome the defects: a strategy based on CDE method. According to the experimental results, CDM-NSGA-II is superior to NSGA-II, σ -MOPSO, and NSPSO in terms of convergence and diversity. Therefore, CDM-NSGA-II is highly competitive.

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