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global minima or maxima of a function or a set of functions on a given set. It is usually described as a minimization problem because the maximization of the real-valued function  $f(x)$  is obviously equivalent to the minimization of the function  $g(x) := (-) \cdot f(x)$ . Global optimization - Wikipedia Aguiar e Oliveira Junior H., Ingber L., Petraglia A., Rembold Petraglia M., Augusta Soares Machado M. (2012) Global Optimization and Its Applications. In: Stochastic Global Optimization and Its Applications with Fuzzy Adaptive Simulated Annealing. Intelligent Systems Reference Library, vol 35. Springer, Berlin, Heidelberg. Global Optimization and Its Applications | SpringerLink Advances in Stochastic and Deterministic Global

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Particle swarm optimization is an algorithm modelled on swarm intelligence that finds a solution to an optimization problem in a search space, or model and predict social behavior in the presence of objectives. Simulated annealing - Wikipedia This book is intended to complement these other publications with a focus on stochastic methods for global optimization. Stochastic methods, such as simulated annealing and genetic algorithms, are gaining in popularity among practitioners and engineers because they are relatively easy to program on a computer and may be applied to a broad class of global optimization problems. Stochastic Adaptive

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... Commentary: Combine optimization, machine learning and ... experimental test and numerical simulation results. Once calibration has been achieved, an assessment of its robustness is performed, which utilizes the same approximation by MLSM technology as in the optimization process. 2.

Keywords: Design Optimization, Stochastic Analysis, Approximation, Moving Least Squares Method,

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