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The Global Optimization Of High-dimensional Black-box Functions—where Closed Form Expressions And Derivatives Are Unavailable—is A Ubiquitous Task Arising In Hyperparameter Tuning [36]; In Reinforcement Learning, When Searching For An Optimal Parametrized Policy [7]; In Simulation, When Feb 14th, 2024

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In Contrast To This, In Continuous Optimization We Will Focus On, X Is A "continuum" Set Like The Entire  $\mathbb{R}^n$ , A Box  $F_x : A \leq x \leq B$ , Or Simplex  $F_x : \sum x_j = 1, x_j \geq 0$ , Etc., And The Objective And The Constraints Are (at Least) Continuous On X. |In L Apr 17th, 2024

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