AUTO-TUNING - GLOBAL OPTIMIZATION ALGORITHMS

- Several derivative-free global optimization algorithms exist: (Rios, Sahidinis, 2013)
 - Lipschitzian-based partitioning techniques:
 - DIRECT (Divide in RECTangles) (Jones, 2001)
 - Multilevel Coordinate Search (MCS) (Huyer, Neumaier, 1999)
 - Response surface methods
 - Kriging (Matheron, 1967), DACE (Sacks et al., 1989)
 - Efficient global optimization (EGO) (Jones, Schonlau, Welch, 1998)
 - Bayesian optimization (Brochu, Cora, De Freitas, 2010)
 - Genetic algorithms (GA) (Holland, 1975)
 - Particle swarm optimization (PSO) (Kennedy, 2010)
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- **New method**: inverse distance weighting + radial basis function surrogates (GLIS) (Bemporad, 2019)