

**TABLE I:** Propagators in Propulate.

Name	Description
InitUniform	Initialize individuals by uniformly sampling specified limits for each trait.
SelectBest	Select specified number of best performing individuals as evaluated by their losses.
SelectWorst	Select specified number of worst performing individuals as evaluated by their losses.
SelectUniform	Randomly select specified number of individuals.
Stochastic	Apply the propagator with a specified probability only.
Conditional	Apply different propagators depending on whether breeding population is already complete or not.
Cascade	Apply multiple propagators successively.
PointMutation	Point-mutate given number of traits with given probability.
RandomPointMutation	Point-mutate random number of traits with specified probability.
IntervalMutationNormal	Mutate given number of traits according to Gaussian distribution around current value with given probability.
MateUniform	Generate new individual by uniform crossover of two parents with specified relative parent contribution.
MateMultiple	Generate new individual by uniform crossover of multiple parents.
MateSigmoid	Generate new individual by crossover of two parents according to a Boltzmann-style sigmoid probability. Consider two parents with OF values $f_1$ and $f_2$ . Let $f_1 \leq f_2$ . For each trait, the better parent's value is accepted with a logistic probability $(1 + \exp(-(f_1 - f_2)/T))^{-1}$ , where $T$ is a temperature parameter.