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## Algorithm design for mixed-integer black-box optimization problems with uncertainty

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# List of Abbreviations

<b>ABS</b>	Antilock Braking System
<b>AF</b>	artificial function
<b>ARP</b>	Active Rollover Protection
<b>AUC</b>	Area Under the Curve
<b>BBOB</b>	Black-Box Optimization Benchmarking
<b>BIPOP</b>	bi-population
<b>CI</b>	Confidence Interval
<b>CIS</b>	Confidence Interval Sequence
<b>CMA-ES</b>	Covariance Matrix Adaptation Evolution Strategy
<b>CMA-ESwM</b>	CMA-ES with Margin
<b>CRG</b>	curved regular grid
<b>CS</b>	Confidence Set
<b>CSA</b>	cumulative step length adaptation
<b>CV</b>	characteristic value
<b>DA</b>	Dynamic Allocation
<b>EA</b>	Evolutionary Algorithm
<b>ECDF</b>	Empirical Cumulative Distribution Function
<b>ELA</b>	Exploratory Landscape Analysis
<b>ERT</b>	Expected Running Time
<b>ES</b>	Evolutionary Strategy
<b>ESC</b>	Electronic Stability Control
<b>int-EA</b>	Evolutionary Algorithm for Integer Programming
<b>IPOP</b>	increasing population
<b>PCA</b>	Principal Component Analysis
<b>PCR</b>	Probability of Correct Ranking

<b>PCS</b>	Probability of Correct Selection
<b>RaS</b>	Ranking and Selection
<b>RCR</b>	ratio of correct ranking
<b>RI</b>	Rank Interval
<b>RQ</b>	research question
<b>SA</b>	Static Allocation
<b>SMAC</b>	Sequential Model-based Algorithm Configuration
<b>SMBO</b>	sequential model-based optimization
<b>SR</b>	Success Rate
<b>SWD</b>	Sine with dwell
<b>TPE</b>	Tree-structured Parzen Estimator
<b>UQiR</b>	Uncertainty Quantification in Ranking
<b>UQiRS</b>	Uncertainty Quantification in Ranking and Selection
<b>UQiS</b>	Uncertainty Quantification in Selection
<b>VDCS</b>	vehicle dynamics control system
<b>WoR</b>	Without Replacement