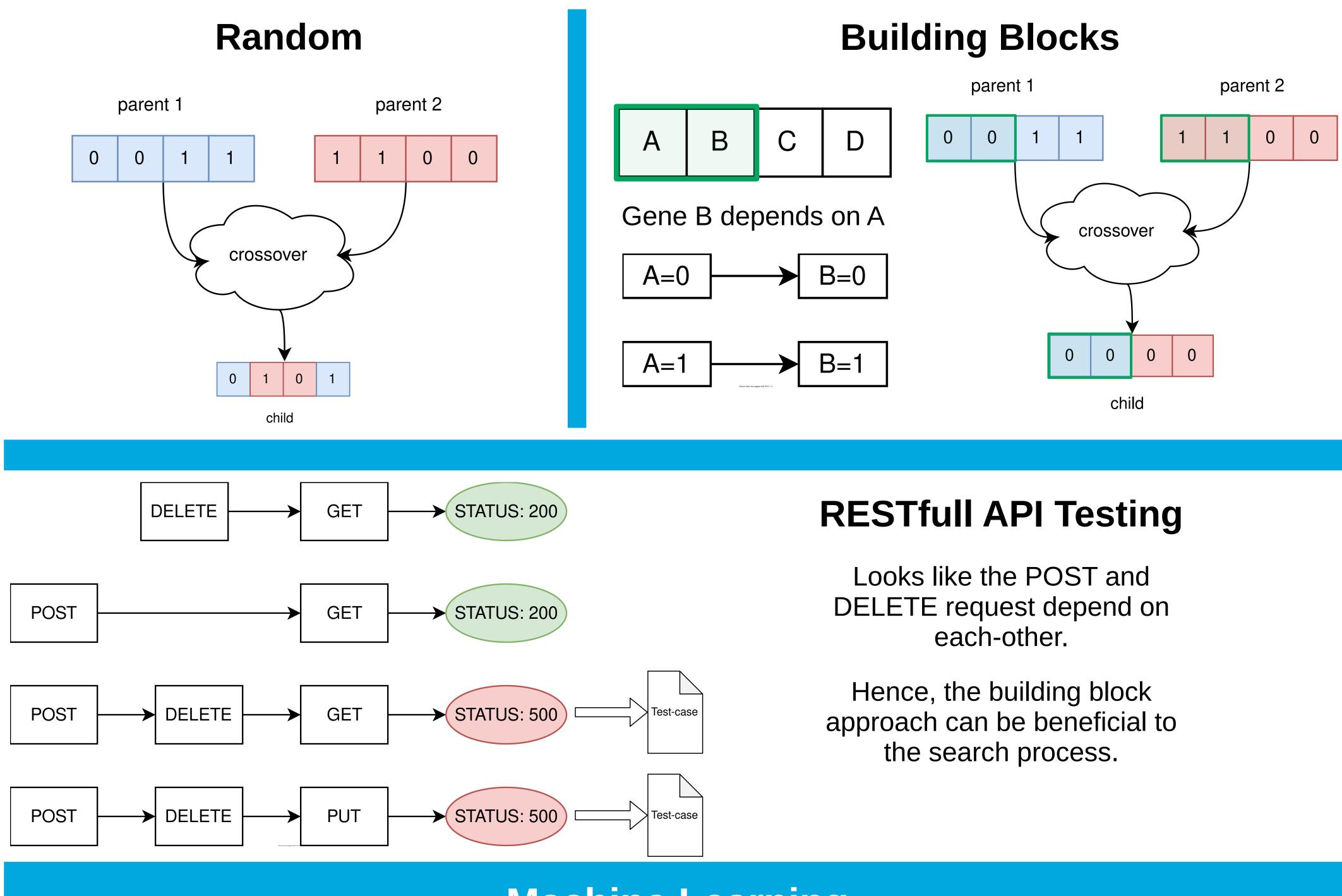
25-06-2020 CS3000 Supervisors: Annibale Panichella, Mitchell Olsthoorn

Date:

Course:



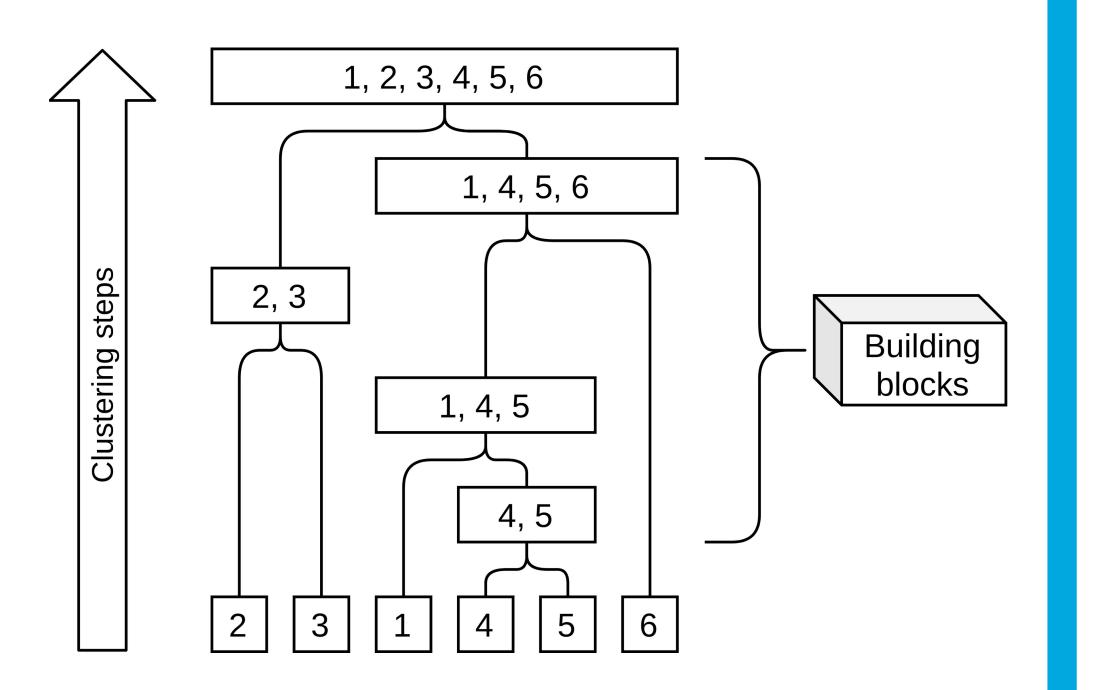
Disruptive Crossover Operators



Machine Learning

ACMOSA

- Uses Agglomerative Hierarchical Clustering
- Finds the most similarly occurring parts of solutions



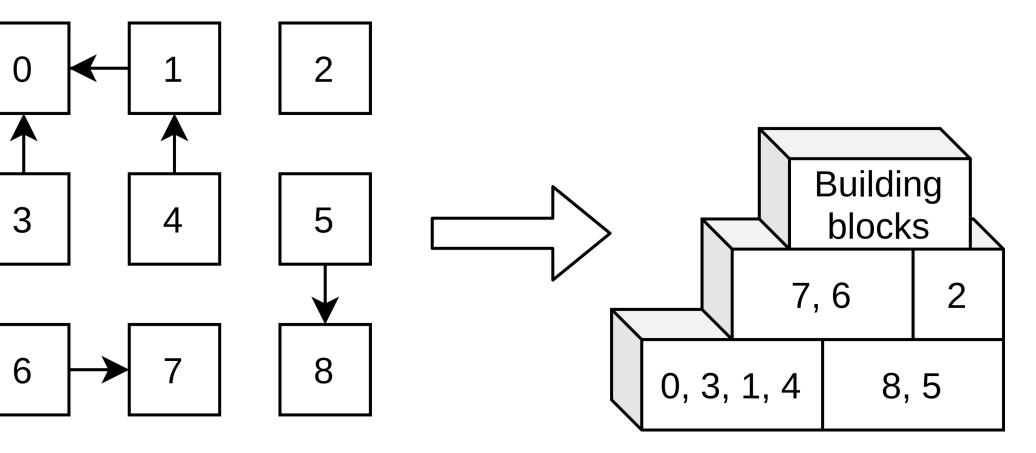
Preserving Inter-gene Relations during Test Case Generation using Intelligent Evolutionary Operators

Dimitri Stallenberg

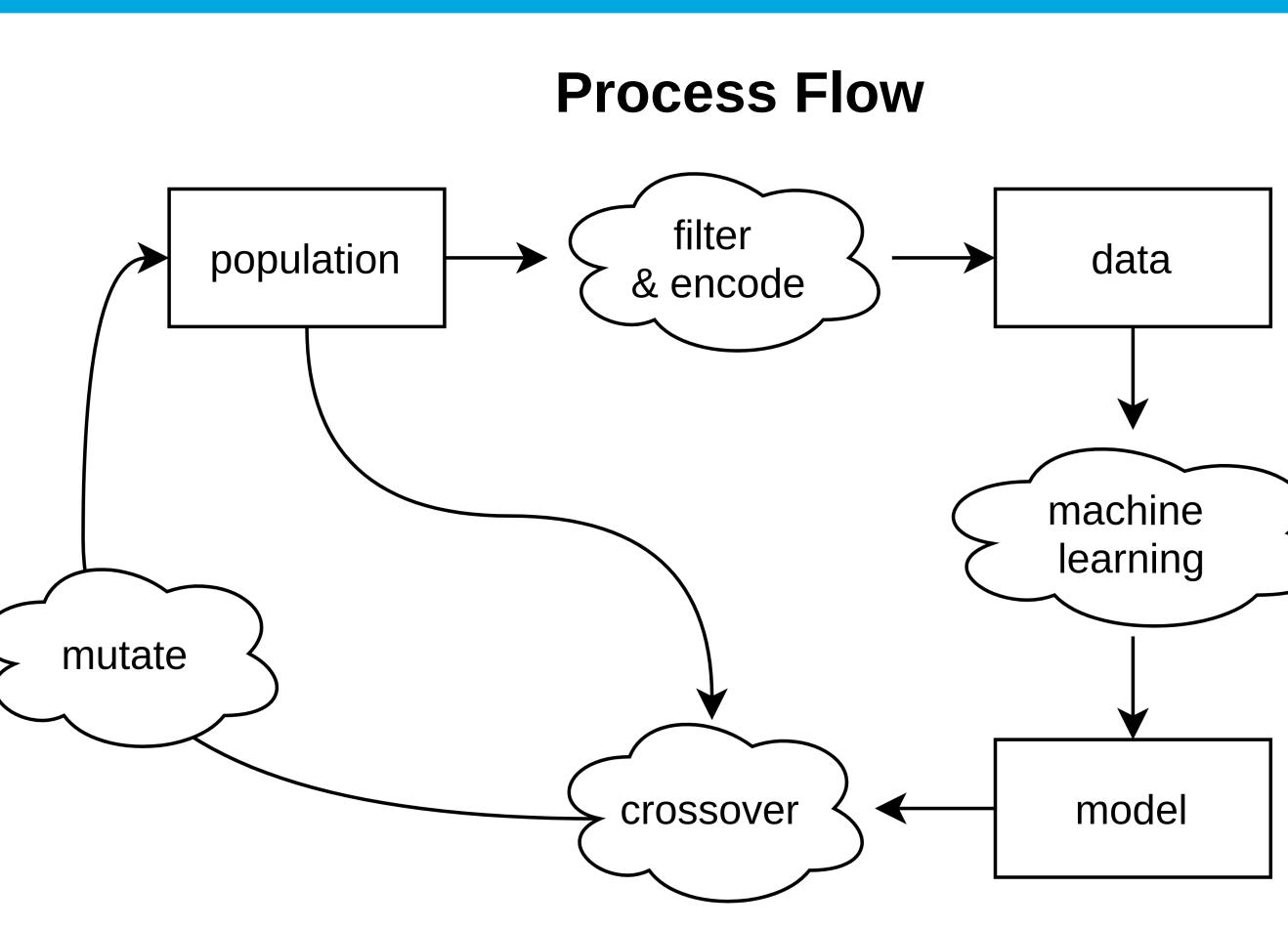
GOMOSA

- Uses Gene-pool Optimal Mixing
- Finds a Bayesian Network that most accurately fits the distribution of partial solutions

Bayesian Network to Building Blocks

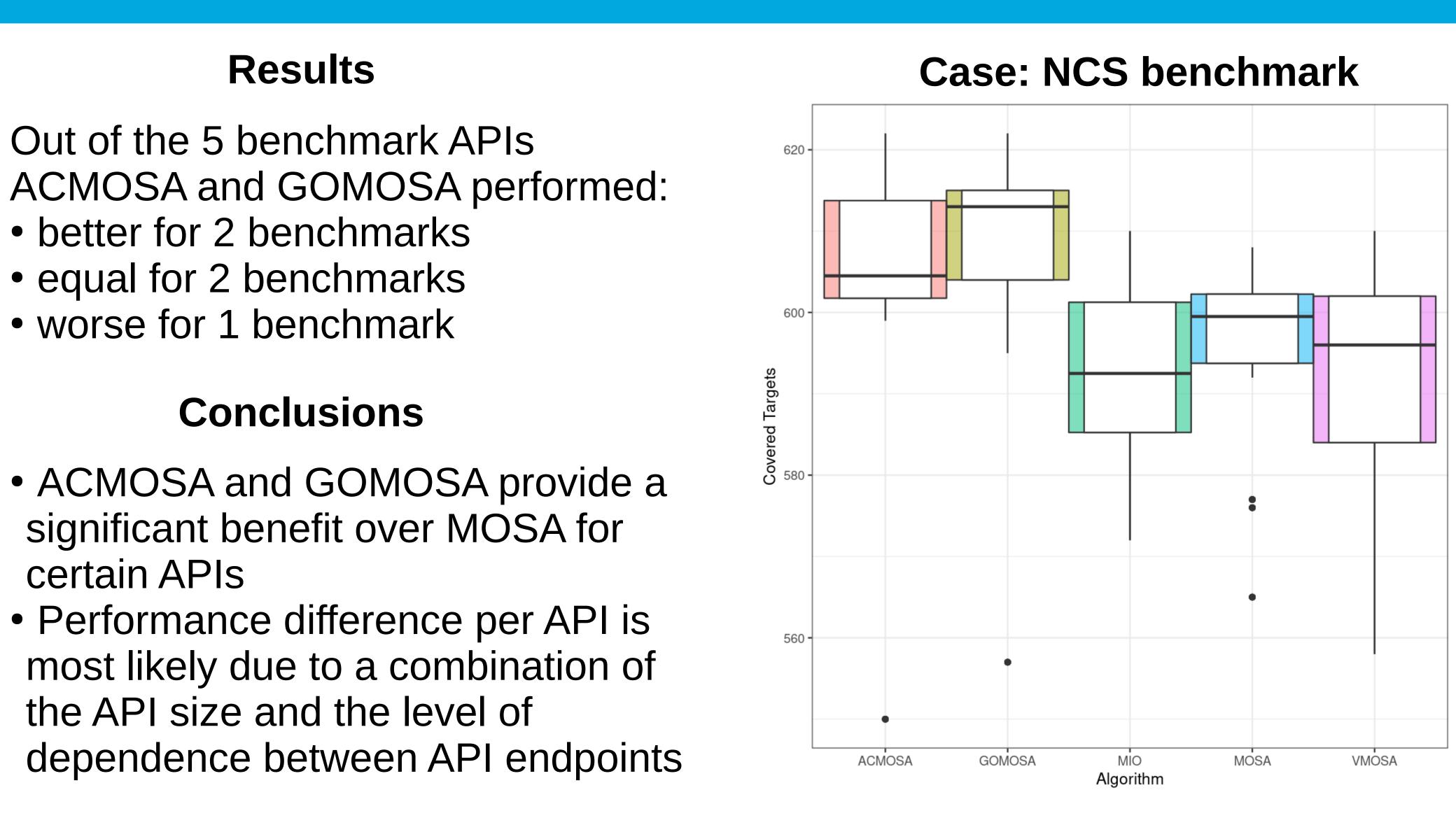


Process



What is the impact of using intelligent evolutionary operators on the performance of test-case generating evolutionary algorithms in terms of covering test targets?

Evaluation





Encoding

n possible actions k solutions in population

k rows	a_0	a_1	a_2	 a_n
	a_0	a_1	a_2	 a_n
	a_0	a_1	a_2	 a_n
	0	a_1	a_2	 a_n