FACOLTÀ DI SCIENZE MATEMATICHE, FISICHE E NATURALI
DIPARTIMENTO DI MATEMATICA E FISICA "NICCOLÒ TARTAGLIA"

Genetic Algorithms: the evolutionary approach to problem optimization

Introduce
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Interviene
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Abstract
Genetic Algorithms (GAs) have emerged as a powerful and versatile tool in the field of computational optimization. Inspired by the principles of natural selection and genetic inheritance, GAs offer a unique approach to solve complex optimization and search problems. In this seminar, the fundamental concepts behind GAs will we discussed, including population-based search, selection mechanisms, crossover and mutation. We will explore how GAs can tackle a wide range of optimization challenges from task scheduling to machine learning model selection, and extend the discussion to multi-objective optimization problems. We will conclude with an hands-on demonstration and tools to kickstart your own genetic algorithm projects.

Seminario

Giovedì 2 novembre 2023
Aula 28, ore 11.30
Via della Garzetta 48, Brescia

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