

Course scheduling, especially at universites and similiarly large facilities, goes along with complex constraints. With increasing input and more constraints an optimal solution cannot be computed within a reasonable amount of time. The widely used approach of using a genetic algorithm seemed to be pro-

mising and was therefore chosen for our project. The genetic algorithm operations, setup, fitness function, crossover, mutate and selection, are best conceived of as core components of the scheduler algorithm.

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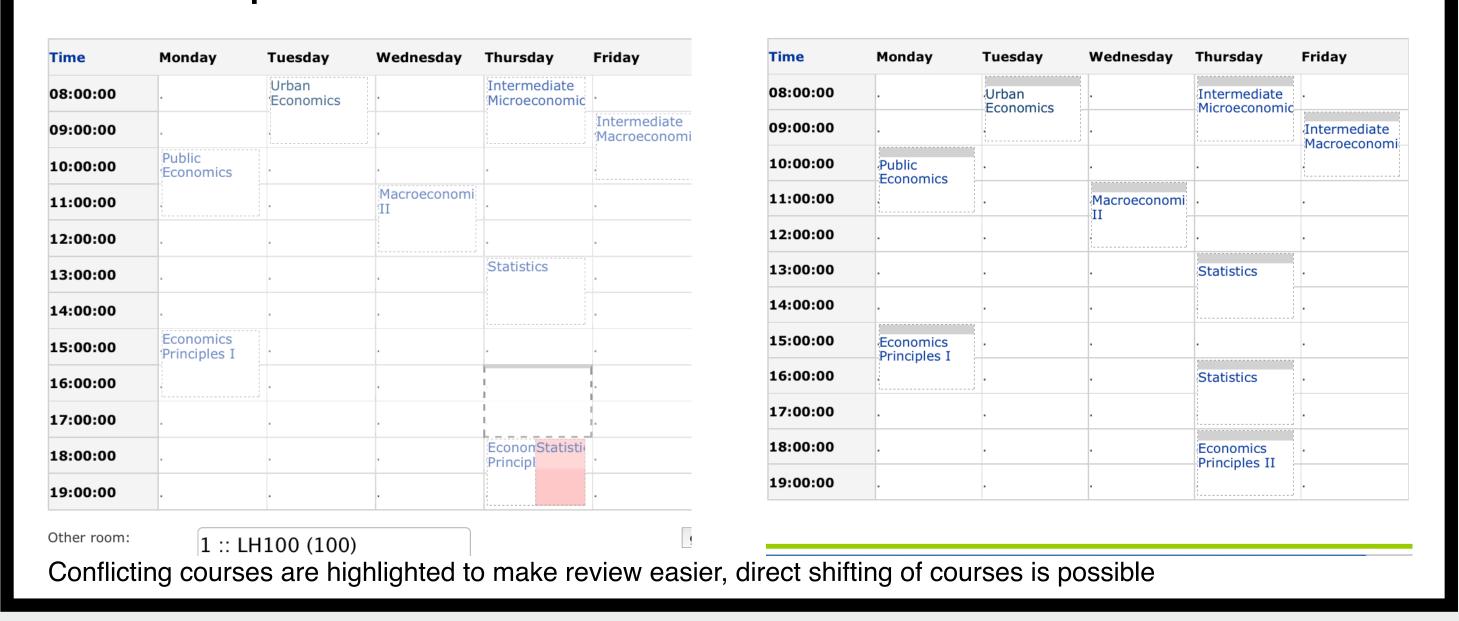
Conflicting courses are highlighted to make review easier, direct shifting of courses is possible

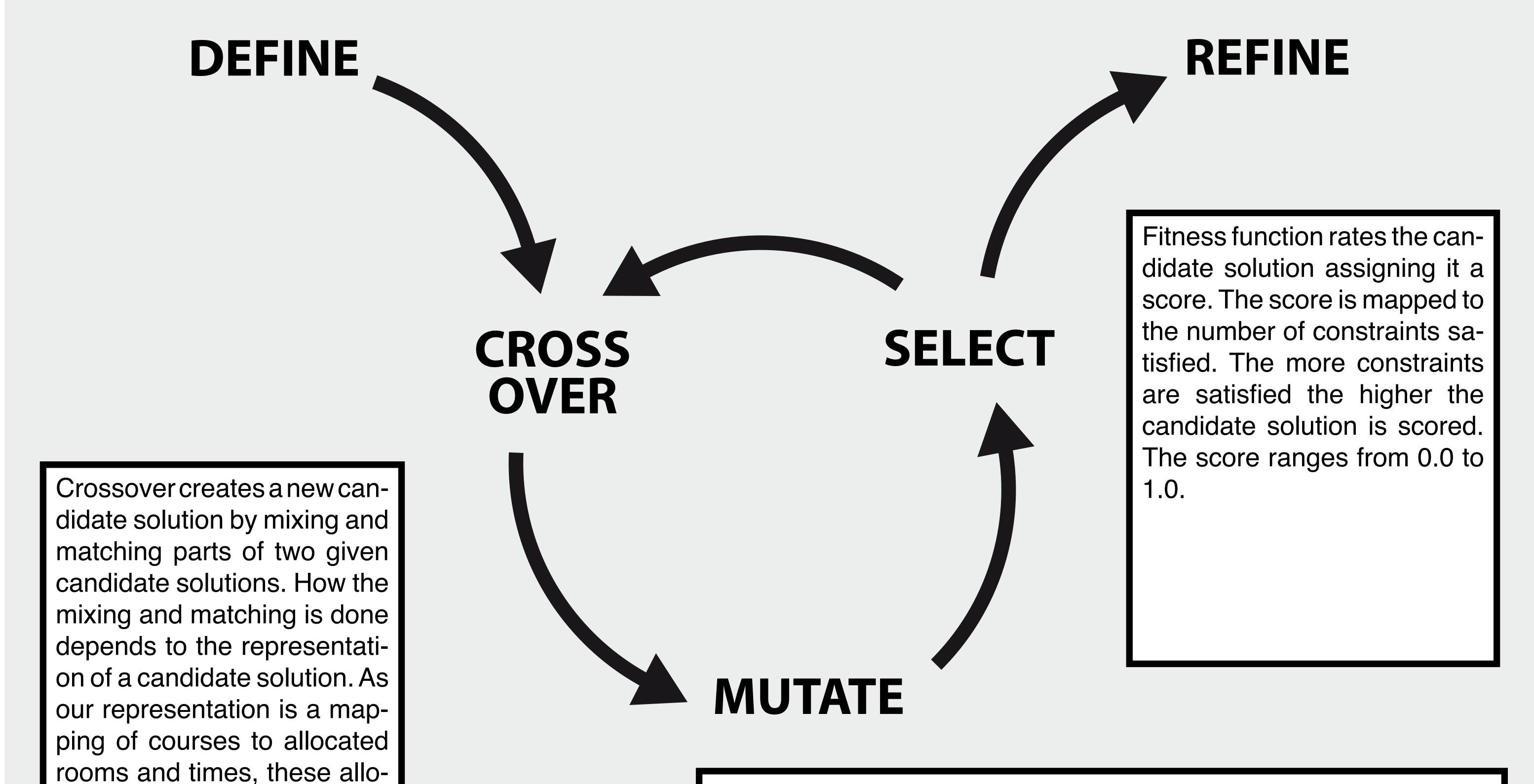
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Mutation creates a new candidate solution by taking a given candidate solution and changing a specified amount of course allocations to new, randomly chosen, course allocations. Selection iterates the given candidate solutions and keeps only the μ best solutions. The solutions are selected, according to the score given by the fitness function, through droppving the rest of the candidate solutions.



