

Assignment: Control Satisfaction Problem

To solve the Constraint Satisfaction problem, we have to identify three main things.

Variable- it can hold multiple different values. But at one time, it should store one value.

Domains – what kind of values that variables can hold.

Constraints- Conditions that we must satisfy while assign value for variables from the domain.

In this problem;

Variables are the name of different subjects.

A domain is Date, timeslot, and Room that subject can assign.

We have a set of constraints.

1. Given subjects can be assigned only to one of the possible time slots given for that subject.
2. Two compulsory subjects cannot be in the same time slot (optional subjects may).
3. Two subjects cannot be assigned to the same room if they are assigned to the same time.

Our goal is to find values for variables from their domain way that they satisfy all constraints.