

Title: ENT outpatient clinic scheduling during Covid time.

ENT outpatient clinic scheduling deals with assigning doctors to outpatient boxes, in order to be able to visit as many patients as possible, while respecting a set of physical, medical, and resource constraints. Before Covid crisis, ENT outpatient clinic at the University Hospital of Liege was effectively organized. However the pandemic has now largely increased the number of constraints to take into account, and therefore a reoptimization is needed.

The goals of this project are to:

- (a) Study the basic literature on scheduling and assignment problems;
- (a) Design a mathematical model for the ENT outpatient clinic scheduling problem;
- (b) Solve real instances.

This project is in collaboration with a doctor from the University Hospital of Liege.