

Proposal for Special Session at IEEE CASE 2021

Goal:

A special session on health care organization modeling, simulation and optimization is proposed at CASE2021 by ROSA research group (Operations Research Applied to Health Care Systems).

The theme of the conference Data-Driven Automation is specially relevant in health care context where a huge amount of data is collected on the care process but also on the health condition of the patient.

Decision support systems dedicated to health care managers may be significantly improved by exploitation of data repository.

For chronic diseases with long care process, health data mix different time horizons.

In case of epidemics of a new pathology, length of stays and arrival rates are unknown and may change during the crisis, since care processes are continuously adapted and government containment rules are also changing. Therefore very flexible evaluation and learning models have to be implemented in this case.

This session aims original contributions on quantitative models for medical equipment logistics, care pathway control and medical decisions.

Session Title: **Planning and scheduling in hospitals**

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Contributions: