

Open invited track
On

Industrial Engineering for Hospital and Home Healthcare

Proposed by

Thibaud Monteiro (DISP Lyon), Thibaud.Monteiro@insa-lyon.fr
Maria Di Mascolo (G-SCOP Grenoble), Maria.Di-Mascolo@g-scop.grenoble-inp.fr

Abstract

The objective of this track is to bring together researchers working on the transferability and adaptability of methods and tools of Industrial engineering for healthcare management, in order to exhibit recent developments in this area.

Specific difficulties encountered in the hospital sector are:

- difficulty in the setting of the care production mix, within the hospital, but also in the care network;
- variability of durations of activities constituting the mix of treatments related to the patient state, practitioner, the technique of investigation, etc.;
- need to provide, on the same production site, some care to be done during the day (ambulatory), during a stay (hospitalization) and immediately (emergency).

The new constraints healthcare systems are faced are:

- the scarcity of some resources,
- the reduction of operating budgets,
- the resource sharing.

Main research themes

- Hospital information system
- Strategy, modelling and engineering of hospital systems
- Management and Resource Planning
- Logistics and resource configuration
- Modelling and socioeconomic evaluation of hospital systems
- Design and management of home healthcare and care networks

Keywords

Hospital information system, Care networks, Performance evaluation, Surgical planning, Nursing, Resources Management sizing, Overall supply chain, Hospital management, e-health Method, Home Healthcare management.

IFAC technical committee for evaluation

IFAC TC 5.2 Manufacturing Modelling for Management and Control