



PRO-VE'10

11th IFIP Working Conference on Virtual Enterprises

Saint-Etienne, FRANCE, 11-13 October 2010



PRO-VE'10 Special Session

Collaborative Health Care Networks Modeling and Simulation

Sponsored by

CNRS Working Group GISEH on Engineering of Health Care Systems (GDR-MACS)

Special session organizers:

Vincent Augusto (CIS, Ecole des Mines de Saint-Etienne, France) - augusto@emse.fr

Béatrix Besombes (LASPI, Univ. Jean Monnet, Saint-Etienne, France) - besombes@univ-st-etienne.fr

Benoit Montreuil (CIRRELT, Université Laval, Québec, Canada) - benoit.montreuil@cirrelt.ca

Agostino Villa (DISPEA, Politecnico di Torino, Italia) - agostino.villa@polito.it

Scope:

Health care systems are facing new challenges such as the aging population, the rise of health care costs and the rapid progress of medical technologies. New policies of health care budget control have been introduced in order to improve the entire system. And interests in applications of engineering approaches to improve the management of health care systems have largely grown. A growing part of these studies concerns collaborative management aiming to break down organizational barriers, so as to improve internal synergies within health care centers, but also external coordination among complementary health care centers. Better providers and centers collaborations allow a better management of patient stay (including patient satisfaction), a better coordination among health care professionals within and/or among hospital(s), and a major decreases in logistic costs (length of stay, patient transportation, etc.).

This special session aims at identifying crucial research progresses in collaborative management of health care centers or/and networks. Collaboration is an essential step towards better performance and continuous improvement in health care networks and their distributed health care centers such as hospitals and clinics. Enhancing collaboration between these stakeholders can be achieved through innovative concepts, technologies, organizations, processes and approaches. Mapping health care networks and helping navigation through them can have major impacts on enabling more fluid collaboration among actors. Web-based information systems can particularly help by connecting the actors from wide areas, not prone to direct exchanges, thus increasing visibility and benchmarking potential in large scale highly distributed networks.

Among the past years, various modeling and simulation techniques approaches towards virtual hospital modeling have been developed: (i) business modeling tool (modeling views and perspectives, modeling concepts, structured methodology and flow representation), (ii) generic modeling (modeling of virtual societies such as hospitals), and (iii) modeling and simulation frameworks (simulation packages dedicated to health care systems). Health care system modeling is still a difficult task because of a large amount of specific features such as medical diagnosis modeling, patient health state evolution, coordination between services modeling, etc.

Topics:

- Health care system/networks modeling
- Architecture of health care system/networks information systems
- Collaborative modeling and management
- Health care networks simulation
- Health care system optimization
- Mapping health care networks
- Case studies of health care network modeling and integration
- Multi agent based simulation
- Health care decision modeling process

Submission procedure

Short abstracts submission: February, 15th, 2010

Full papers submission: March, 30th, 2010

Acceptance Notice: May, 15th, 2010

Camera Ready Submission: June, 13th, 2010



PRO-VE'10

11th IFIP Working Conference on Virtual Enterprises

Saint-Etienne, FRANCE, 11-13 October 2010



Acceptance of papers is based on the **full paper** (up to **8** pages). Each paper will be evaluated by three members of the International Program Committee. However, prospective authors should submit a *short abstract* in advance, in order to check if the proposed topic fits within the conference scope.

When submitting on the web site, you have to indicate the name of the special session.
Submission on: www.pro-ve.org, with copy by email to the chairs of the special session.