Department of Electrical, Computer and Biomedical Engineering
(Dip. Ingegneria Industriale e dell'Informazione)
Meeting Room, floor D

Via Ferrata, 5 Pavia

WORKSHOP

Medico-legal issues in decision support systems and telemedicine

Regardless of their computerization, legal implications of clinical practice guidelines are debated for some time. However, computerization and distribution of decision support through telemedicine and homecare systems add some specific issues. Thus, successful implementation of Medical Informatics applications require developers to take into account several aspects that go far beyond pure technology. Collaboration of bioengineers and physicians with experts on human factors and legal issues are of paramount importance. These aspects are often underestimated in research projects, and this jeopardizes real-world deployment of medical informatics systems. In this workshop we will leverage on some e-health and m-health applications developed in our labs to raise a number of doubts and issues related to the medico-legal consequences of any problem that could occur using those systems. For example, who's liable for an erroneous recommendation from a computerized clinical practice guideline? Who's liable if a patient does not receive an expected alert on his smartphone? Or if a doctor does not receive the correct information for a data transmission problem? Who's responsible for updating a decision support system in the light of new scientific knowledge? What are the documents that physicians, engineers and patients must share in order to make the use of these systems as safe as possible and to make the responsibilities clear? Is *information anytime anywhere* going to engage physicians 24h, 7/7?

Proff. Mor Peleg from Haifa University and Yuval Shahar from Ben Gurion University (Israel) will join the workshop via Skype.

The organizing committee

Silvana Quaglini, Biomedical Informatics Lab "M. Stefanelli", CHT
Amedeo Santosuosso, Dept. of Law, ECLT, CHT
Carlo Napolitano, Molecular Cardiology, Fondazione S. Maugeri

The workshop is open to all interested parties, however a confirmation mail is appreciated for a better organization. To this aim and for any further information: silvana.quaglini@unipv.it, 0382 985058

Program

14:30-14:40 Welcome and workshop introduction

Short illustration of some telemedicine systems that motivated the workshop

14:40-14:50 MobiGuide - home monitoring of atrial fibrillation (L. Sacchi, E. Parimbelli)

14:50-15:00 HeNeA - home monitoring of therapy side effects in cancer patients (S. Buzzacchino)

15:00-15:10 AP@Home - artificial pancreas, a trial with diabetic children (E. Losiouk)

The doubts of ICT designers and developers

15:15-15:30 The criticalities emerged from the above applications (S. Quaglini, G. Lanzola)

The point of view of two physicians

15:30-15:40 Legal implications of clinical practice guidelines (C. Napolitano)

15:40-15:50 The patient-physician relationship in the internet age (G. Fizzotti)

Suggestions from a computer forensics expert

15:50-16:00 Security issues in telemedicine (A. Barili)

Round Table with legal experts

16:00-17:30 Questions & Answers, Discussion, Suggestions and future developments (A. Santosuosso, B. Bottalico, M. Tomasi).

Speakers

Serena Buzzacchino, Giordano Lanzola, Eleonora Losiouk, Enea Parimbelli, Silvana Quaglini, Lucia Sacchi - Laboratorio di Informatica Biomedica, Dip. Ingegneria Ind. e dell'Informazione, Università di Pavia
Carlo Napolitano - Cardiologia Molecolare, IRCCS Fondazione Salvatore Maugeri, Pavia
Gabriella Fizzotti – UO Neuroriabilitazione Spinale, IRCCS Fondazione Salvatore Maugeri, Pavia
Antonio Barili - Laboratorio di Informatica Forense, Dipartimento di Ingegneria Industriale e dell'Informazione, Università di Pavia
Amedeo Santosuosso - Corte d'Appello di Milano (I), Interdepartmental Research Center ECLT, Università di Pavia
Barbara Bottalico, Marta Tomasi - Interdepartmental Research Center ECLT, Università di Pavia