

Rationale

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?

Organizing committee

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

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



Università degli Studi di Pavia
Dottorato di Ricerca in
Bioingegneria e Bioinformatica



Università degli Studi di Pavia
Dottorato di Ricerca in Bioingegneria e Bioinformatica

WORKSHOP

Medico-legal issues in decision support systems and telemedicine

December 2nd, 2015, 2:30pm
**Department of Electrical, Computer and
Biomedical Engineering
(Dip. Ingegneria Industriale e
dell'Informazione)**
Meeting Room, floor D
Via Ferrata, 5 Pavia



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).

Mor Peleg and Yuval Shahar (Leader and partner of the MobiGuide project, respectively) will join the round table for discussion.

Speakers

- **Serena Buzzacchino, Giordano Lanzola, Eleonora Losiouk, Enea Parimbelli, Silvana Quaglini, Lucia Sacchi - Laboratorio di Informatica Biomedica, Dipartimento di Ingegneria Industriale 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**
- **Mor Peleg - Department of Information Systems, University of Haifa, Israel.**
- **Yuval Shahar - Department of Information Systems Engineering, Ben-Gurion University of the Negev, Beer-Sheva, Israel**