MyHealthAvatar

Body:

Introduction

European healthcare systems have been subject to a long history of independent evolution among different countries. As a result, the picture is highly fragmented with differences between member states and regions. To this end, information collection, access, sharing and analysis have become a key to this problem.

MyHealthAvatar will offer access, collection and sharing of long term personal health status data through a digital representation, which will help to deliver clinical analysis, prediction, prevention and treatment tailored to the individual citizen.

Motivation

The MyHealthAvatar (MHA) project is a research and demonstration-oriented iterative venture, in which the feasibility of creating personal health records configured as digital patients will be studied. The primary motivation for the project is to help overcome the current fragmented approach taken by health systems in European countries, which makes gaining access to a consistent record of individual citizens that involves cross-border activities difficult.

The MHA vision is to generate a 4D avatar representing the health status of citizens and in the process to encourage the engagement of both medical professionals and citizens. The avatar will be designed as a lifetime companion for individual citizens that facilitates the collection of, and access to, long-term health-status information. By representing health status in this way, it is hoped to make a valuable contribution to individualized disease prediction and prevention; moreover, greater awareness of healthy lifestyles and the achievement of independent living will be promoted.

Challenges and Highlights

The main challenge for the L3S Research Center will be the review and analysis of the European and relevant national legislation on data protection, data security and ownership of (personal) data with reference to the data generated and processed within the project. In addition, the L3S Research Center will do a survey on strengths and weaknesses of the European data protection framework in supporting the citizens keep control of their personal medical information in the MyHealthAvatar scenario. Furthermore, the L3S Research Center will illustrate the impact of intellectual property on ownership of data processed in a 4D-avatar and its software. Another great challenge will be the creation of legal and ethical guidelines concerning the use of the final platform where the L3S Research Center will serve as a legal and ethical helpdesk for the whole project.

Project abstract:

A Demonstration of 4D Digital Avatar Infrastructure for Access of Complete Patient Information.

Logo:

Members:
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