

Mobile health and Smart Cloud Computing for Innovative Integrated Care to Chronic Diseases Management

This PhD research study will form part of WELCOME a new multimillion FP7 EU project (2013 – 2016). The main aim of the WELCOME project is the introduction of mobile health (m-health)-based wearable sensing and smart cloud computing integrated care system in managing chronic diseases such as Chronic Obstructive Pulmonary Disease (COPD) with co morbidity (e.g. diabetes, CHF and Depression). The project will produce a patient centred and proactive approach to COPD management. The main target is early detection of complications to reduce healthcare cost and prevention or mitigation of co-morbidities.

The successful candidate will work as part of the project EU consortium partners on the following:

- 1- A wearable vest and other integrated wireless sensors to monitor the patients vital signs related to COPD and its co-morbidity (e.g. Diabetes, CHF and Depression).
- 2- Design and development of cloud based decision support system based on health data mining, context aware and artificial intelligent algorithms to process the collected data and provide feedback when needed.
- 3- Design and development of multi platform (smart phone/ tablets) mobile application for users to access the developed system.

This project is suitable for graduates in computing, engineering or equivalent degree.

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