

Dissertação de Mestrado em Engenharia Informática (2017/2018)

Title: Platform for remote-monitoring of pulmonary disease chronic patients.

Supervisor: Prof. Nuno M. Garcia (UBI)

Co-Supervisor: Prof. Carlos Valderrama (Université de Mons, Belgium)
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Summary

The remote monitoring of pulmonary disease chronic patients involves the integration of data collected from a number of sensors that remotely monitor not only some of the users' vital signals, but also keep track of the location and the levels of supplies for oxygen providing devices.

Objectives

The main objective of this research is to research and develop a platform that coordinates the data from the incoming remote sensors, allowing not only the management of devices and its supplies, but also allow for the definition of an alarm infrastructure on the patient's quality of life and health. The dissertation work will consist in the development of such platform, including sensor data integration and patient remote monitoring.

Tasks

- T1 – Technological background study;
- T2 – Review the State-of-the-art;
- T3 – Development of a platform for remote-monitoring of pulmonary disease chronic patients;
- T4 – Tests and integration;
- T5 – The writing of the dissertation.

Expected result

In this research work the following deliverables are expected:

- A conference paper describing the process;
- The dissertation.

Timeline

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
T1	X	X									
T2		X	X								
T3			X	X	X	X	X	X	X		
T4				X		X		X		X	
T5							X	X	X	X	

References

N/A

Requisites

The student will be selected after an initial screening process that will include the assessment of his/her ability to work in this area, his/her skills on analyzing a scientific paper and his/her skills on writing text for a scientific paper.