

Dissertação de Mestrado em Engenharia Informática (2018/2019)

Title: Proficient ambient intelligence based on the wisely selection of data sources in heterogeneous environments

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Summary

Novel information and communication technologies create possibilities to change the future of care models towards a personalized healthcare. In line with this, Ambient Assisted Living (AAL) concepts may provide ambient intelligence technologies to enable for example elderly people and chronic patients to continue to live in their preferred environments. However, applying trained models from health data is challenging because the personalized environments could differ significantly than the ones which provided training data.

The present topic focuses on dealing with modelling, and evaluation of an adaptable system; for heterogeneous scenarios emerged from the personalized healthcare, capable to select the most relevant information from multiple either data sources or sensors with the prediction accuracy in mind.

Tasks

- T1 – Technological background study;
- T2 – Review the State-of-the-art;
- T3 – Requirements Analysis;
- T4 – Design and construction, including integration;
- T5 – Testing and evaluation;
- T6 – The writing of the dissertation.

Expected result

In this research work the following deliverables are expected:

- A validated computational tool;
- A publication describing the method and the validation results.

Timeline

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
T1	X	X	X						
T2		X	X	X					
T3			X	X					
T4				X	X	X			
T5						X	X	X	
T6					X	X	X	X	X

References:

1. Zdravevski E., Lameski P., Trajkovic V., Pombo N., Garcia N., Importance of Personalized Health-Care Models: A Case Study in Activity Recognition ,15th International Conference on Wearable, Micro & Nano technologies for Personalized Health (pHealth), Gjøvik, Norway, June 12-14, 2018.