

Dissertação de Mestrado em Engenharia Informática (2019/2020)

Title: Predictive Modelling for Atrial Fibrillation Episodes Detection with Cloud Computing

Supervisor: Prof. Nuno M. Garcia

Co-supervisor: Prof. Eftim Zdravevski (Faculty of Computer Science and Engineering, University Ss. Cyril and Methodius, Skopje, Macedonia)

Summary

Atrial Fibrillation (AF) is one of the most commonly detected cardiac arrhythmias worldwide. AF is associated with increased patient risk, including higher rates of stroke and heart failure. More recently, noninvasive diagnostic techniques have been applied to detect and characterize AF. Several researchers have proposed multiple techniques/approaches for detecting AF, but till now, a gold standard for early prediction of AF episodes is still not well defined. Therefore, this proposal aims to implement state of the art predictive model for AF episodes detection with cloud computing.

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:

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