

# AN ELECTRODERMAL ACTIVITY PHYCOPHYSIOLOGIC MODEL

H. F. S. Gamboa, A. L. N. Fred

*<sup>1</sup>Instituto de Telecomunicações, Portugal*

*{hgamboa,afred}@lx.it.pt*

## ABSTRACT

To study the changes on the electrical characteristics of the skin several problems have to be solved. We present a model for the electrodermal activity (EDA) that provides the means to detect and quantify four event types: a discrete event; a pair of events overlapping in the increasing zone; a pair of events overlapping in a decreasing zone; and an isolated small event. The presented EDA model is derived following morphological evidences found in the collected database of EDA signals conducting to a low cost computational model. We provide the algorithmic steps to extract the EDA parameters.