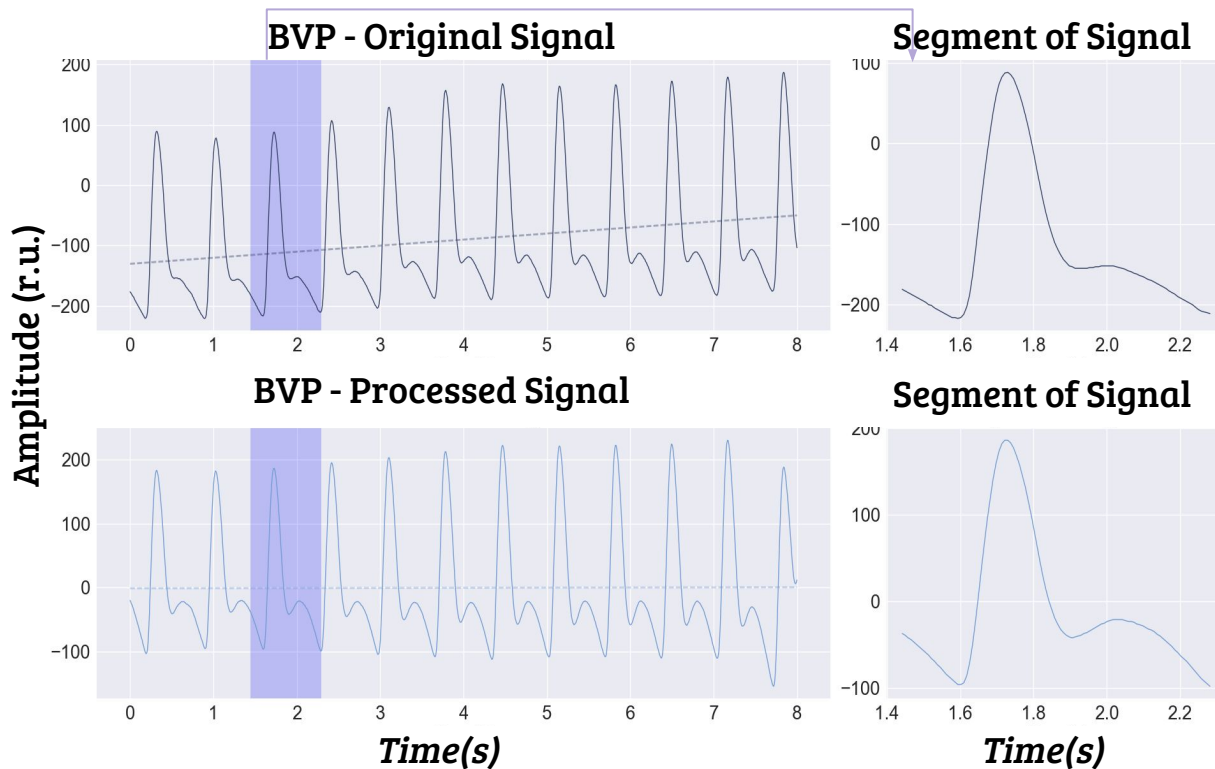


1

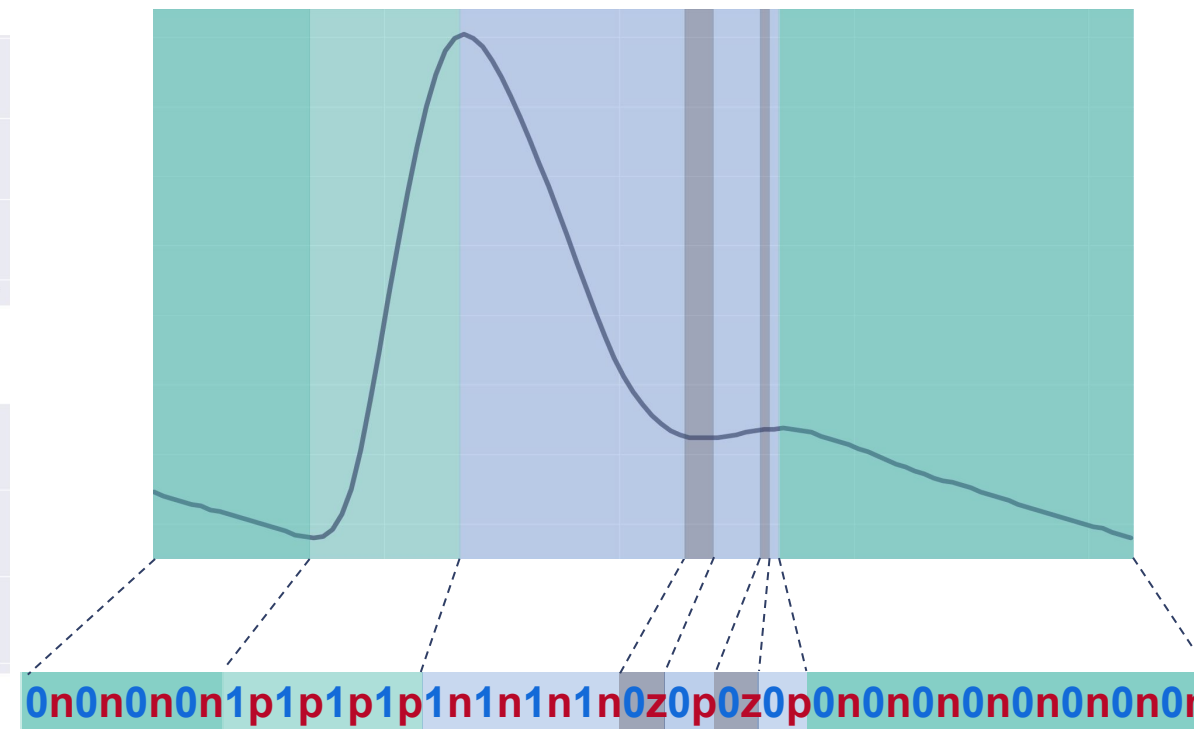
## Pre-Processing

≡ 1 20


 $\equiv(s, fc1, fc2)$  - Bandpass filter

2

## Symbolic Connotation

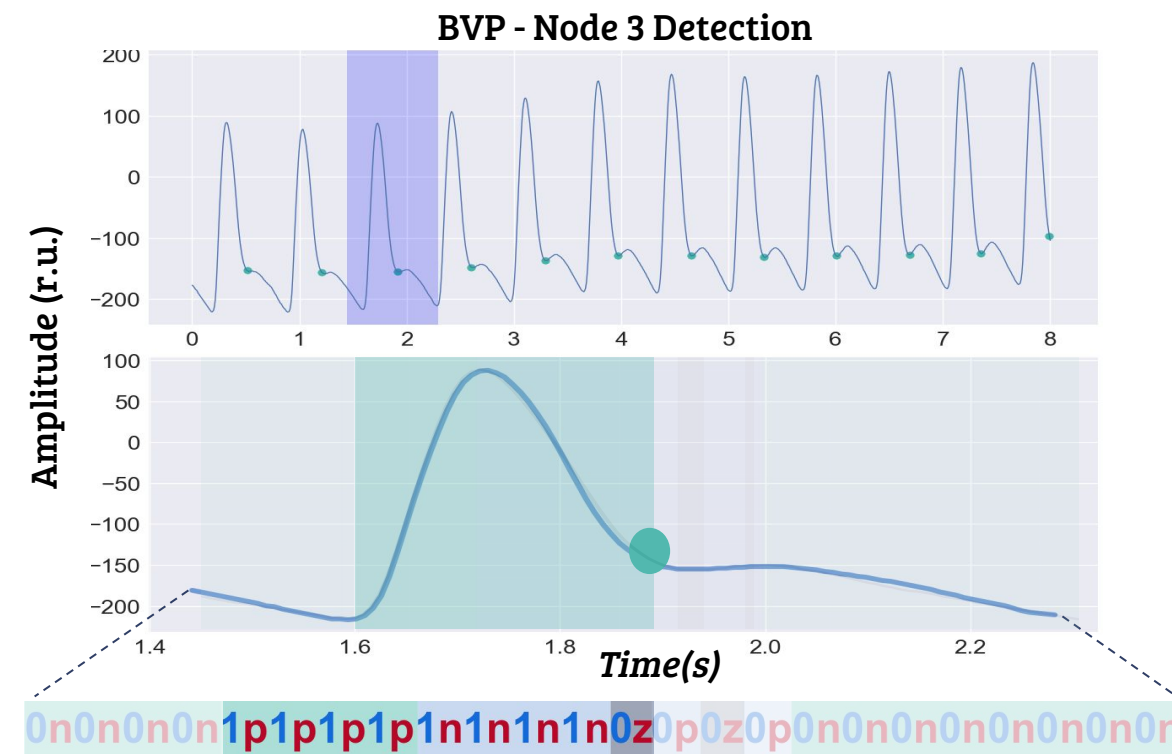
 $\updownarrow 0.3 \partial 0.01$ 

 $\updownarrow(s, thr)$  - Rising and Falling Amplitudes. Above threshold is "1", under  $thr$  is "0"

 $\partial(s, thr)$  - Derivative of the signal (s) with a rounding threshold. P - is the positive derivative, n - the negative and z - the stationary part.

3

## Search

(1p).+?0


 $(1p)$  - Rising Amplitude superior to  $thr$ 
 $(0)$  - value inferior to  $thr$ 
 $.+?$  - Anything that appears more than once (*greedy*)