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I. Introduction

Finding heartbeats in cardiac signals is not always a simple task. The electrocardiogram (ECG) has a well demarcated peak, the QRS wave, and has been extensively studied [1]. However, other cardiac signals,

such as the ballistocardiogram (BCG), or the impedance cardiogram (ICG), have gathered much less attention. When these signals are unobtrusively acquired in a wheelchair, without the patient's awareness, severe artifacts appear, diand subject in the patient's awareness, severe artifacts appear, diand subject in the patient's awareness, severe artifacts appear, diand subject in the patient's awareness, severe artifacts appear, diand subject in the patient's awareness, severe artifacts appear, diand structural vibrations [2]. Furthermore, these are signals which change considerably its morphology from person to person, with severe issues of reproducibility and repeatability [3]. The signals exhibit nonlinear and non-stationary behavior because the stimuli provided are of varied form, deeply dependent on the posture, sensor and structure type, and patient-sensor orientation [4].

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