Date of Conference: 10-12 May 2011 INSPEC Accession Number: 12097120

Date Added to IEEE Xplore: 07 July 2011 DOI: 10.1109/IMTC.2011.5944037

ISBN Information: Publisher: IEEE

ISSN Information: Conference Location: Hangzhou, China

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I. Introduction

Although the electrocardiogram (ECG) is the most studied electrophysiological signal, other signals may reveal more informative. The impedance plethysmogram (IPG), and the ballistocardiogram (BCG), are signals informing on the subject's heart and respiratory rates sharing a key characteristic, the possibility of being imperceptibly acquired. This feature is of much worth as it preserves the so-called "patient's autonomic space" [1]. Comfortably assessing a subject's cardiopulmonary conditions gratificated Continuous Residuality of life is significant, especially for subject who require continuous monitoring. This setting is becoming increasingly important, as modern societies are marked by aging and an increase in the incidence of cardiovascular diseases [2]. To contain economic costs and improve efficiency of cardiovascular care services [3]–[4], home telecare monitoring devices and methods of low obtrusiveness are being growingly explored [5]–[6].

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