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I. Introduction

Mobile, wearable, or embedded systems providing continuous cardiac monitoring are being investigated for some time, and have seen many implementations [1]–[6]. Its interest relies on their low interference with daily life activities, while avoiding the inconveniences and stress of a formal clinical evaluation on an hospital, and their connectivity to e-health information systems. However, generally only one physiological signal is monitored, often supplemented by accelerometry, and few results are provided regarding the patient's state [7]–[15]. Specifically in chairs or wheelchairs, where physical space is available, and embedding several sensors is possible [16], [17]. Improvements on the state of the art are attainable, as the known implementations on wheelchairs monitor only one cardiac signal, and do not provide a stand alone monitoring solution, or only with limited signal processing data storage and communication capabilities [14], [15], [26].

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