Conference Location: Bari, Italy



I. Introduction

Preserving a wheelchair user's autonomy and mobility is of his supreme interest. However, it was reported that the first cause of wheelchair or scooter usage, in 2000 in the US, was cerebrovascular disease [1]. So,

given the generalized increase in its occurrence [2], it is also very important to continuously monitor the cardiovascular condition of wheelchair users. The preference of the subjects and of the medical staff, will always be unobtrusive signals [3], [4]. Inconspicuously and wearable monitoring solutions are viewed with growing interest, e.g. those based on ballistocardiography, electrocardiography, photo and impedance plethysmography [4]–[8]. These signals may be acquired by unremarkably embedding the sensing devices in daily used objects such as wheelchairs.

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