DOI: 10.1109/IEMBS.2011.6090542

Date Added to IEEE Xplore: 01 December Publisher: IEEE 2011

ISBN Information:

Conference Location: Boston, MA, USA

ISSN Information:
PubMed ID: 22254706

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## I Introduction

Around the world, daily variations in ambient air pollution have been consistently associated with variations in daily mortality, cardiopulmonary and cardiovascular morbidity [1]–[3]. Breathing activity can be independently measured by common hardware, e.g., using a thoracic belt or a nasal thermistor, or through signal processing of Sign in to Continue Reading electrocardiogram (ECG) [4] and heart rate variability series [5]–[6]. As fundamental problems, these methods seem to interfere with normal respiration, many subjects seem to modify their respiratory pattern unconsciously, once they become aware their respiration is monitored

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