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Health status and air quality parameters monitoring based on mobile technology and WPAN

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International Journal of Advanced Media and Communication (IJAMC), Vol. 3, No. 1/2, 2009

Abstract: The paper presents a Wireless Personal Area Network (WPAN) including two Bluetooth-enabled measuring nodes that delivers information about some physiological parameters extracted from photo-plethysmographic signals and provides information of indoor air temperature and relative humidity. The data from the node of physiological and air parameters measurement are received by a smart phone device through Bluetooth communication. J2ME developed software assures Bluetooth device detection and identification, data reading, primary processing, data storage and automatic alarm generation. Critical health status associated with the assessed person leads to an automatic SMS generation. Elements related to Heart-Rate Variability (HRV) estimation are also included in the paper. This is an expanded version of a paper presented at the 3rd IEEE International Workshop on Medical Measurements and Applications, 9–10 May 2008, Ottawa, ON, Canada.

Online publication date:: Sat, 27-Jun-2009

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